

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549**

FORM 10-K

(Mark One)
 ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2022

OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

FOR THE TRANSITION PERIOD FROM TO

Commission File Number 001-38096

G1 THERAPEUTICS, INC.

(Exact name of Registrant as specified in its Charter)

Delaware
(State or other jurisdiction of
incorporation or organization)

26-3648180
(I.R.S. Employer
Identification No.)

700 Park Offices Drive, Suite 200
Research Triangle Park, NC 27709

(Address of principal executive offices including zip code)

Registrant's telephone number, including area code: (919) 213-9835

Securities registered pursuant to Section 12(b) of the Act:

<u>Title of each class</u>	<u>Trading Symbol</u>	<u>Name of each exchange on which registered</u>
Common Stock \$.0001 par value	GTHX	The Nasdaq Stock Market

Securities registered pursuant to Section 12(g) of the Act: None

Indicate by check mark if the Registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes No

Indicate by check mark if the Registrant is not required to file reports pursuant to Section 13 or 15(d) of the Act. Yes No

Indicate by check mark whether the Registrant: (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the Registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the Registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the Registrant was required to submit such files). Yes No

Indicate by check mark whether the Registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer	<input type="checkbox"/>	Accelerated filer	<input type="checkbox"/>
Non-accelerated filer	<input checked="" type="checkbox"/>	Smaller reporting company	<input checked="" type="checkbox"/>
Emerging growth company	<input type="checkbox"/>		

If an emerging growth company, indicate by check mark if the Registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the Registrant has filed a report on and attestation to its management's assessment of the effectiveness of its internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C. 7262(b)) by the registered public accounting firm that prepared or issued its audit report.

If securities are registered pursuant to Section 12(b) of the Act, indicate by check mark whether the financial statements of the registrant included in the filing reflect the correction of an error to previously issued financial statements.

Indicate by check mark whether any of those error corrections are restatements that required a recovery analysis of incentive-based compensation received by any of the registrant's executive officers during the relevant recovery period pursuant to §240.10D-1(b).

Indicate by check mark whether the Registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes No

The aggregate market value of the voting and non-voting common equity held by non-affiliates of the Registrant as of June 30, 2022, the last business day of the Registrant's most recently completed second fiscal quarter, was \$209.0 million based on the closing price of the shares of common stock on The Nasdaq Stock Market on that date.

The number of shares of the Registrant's Common Stock outstanding as of February 27, 2023 was 51,657,647.

Auditor Firm Id: 238

Auditor Name: PricewaterhouseCoopers LLP

Auditor Location: New York, NY, United States

Documents Incorporated by Reference

Portions of the Registrant's Definitive Proxy Statement relating to the Annual Meeting of Stockholders, scheduled to be held on June 15, 2023, are incorporated by reference into Part III of this report. Such proxy statement will be filed with the Securities and Exchange Commission within 120 days of the Registrant's fiscal year ended December 31, 2022.

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Special note regarding forward-looking statements

This Annual Report on Form 10-K (this “Annual Report”) contains forward-looking statements that involve risks and uncertainties. All statements other than statements of historical facts contained in this Annual Report are forward-looking statements. In some cases, you can identify forward-looking statements by words such as “anticipate,” “believe,” “contemplate,” “continue,” “could,” “estimate,” “expect,” “intend,” “may,” “plan,” “potential,” “predict,” “project,” “seek,” “should,” “target,” “will,” “would,” or the negative of these words or other comparable terminology.

These forward-looking statements are subject to a number of risks, uncertainties and assumptions, including those described in the “Risk Factors” section and elsewhere in this Annual Report. Moreover, we operate in a very competitive and rapidly changing environment, and new risks emerge from time to time. It is not possible for our management to predict all risks, nor can we assess the impact of all factors on our business or the extent to which any factor, or combination of factors, may cause actual results to differ materially from those contained in any forward-looking statements we may make. In light of these risks, uncertainties and assumptions, the forward-looking events and circumstances discussed in this Annual Report may not occur and actual results could differ materially and adversely from those anticipated or implied in the forward-looking statements.

You should not rely upon forward-looking statements as predictions of future events. Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee that the future results, levels of activity, performance or events and circumstances reflected in the forward-looking statements will be achieved or occur. Such forward looking statements speak only as of the date of this Annual Report. Except as may be required by law, we undertake no obligation to update any forward-looking statements to reflect events or circumstances after the date of such statements.

You should read this Annual Report and the documents that we have filed as exhibits to this Annual Report with the understanding that our actual future results, levels of activity, performance, and events and circumstances may be materially different from what we expect.

This Annual Report includes statistical and other industry and market data that we obtained from industry publications and research, surveys and studies conducted by third parties. Industry publications and third-party research, surveys and studies generally indicate that their information has been obtained from sources believed to be reliable, although they do not guarantee the accuracy or completeness of such information.

PART I

Item 1. Business.

Overview

We are a commercial-stage biopharmaceutical company focused on the development and commercialization of novel small molecule therapeutics for the treatment of patients with cancer. Our first product approved by the U.S. Food and Drug Administration (“FDA”), COSELA® (trilaciclib), is the first and only therapy indicated to proactively help protect bone marrow from the damage of chemotherapy (myeloprotection) and is the first innovation in managing myeloprotection in decades. In July 2022, COSELA (trilaciclib hydrochloride for injection) was conditionally approved by the China National Medical Products Administration (NMPA) for marketing in China.

Trilaciclib was developed from a technology platform that targets key cellular pathways including transient arrest of the cell cycle at the G1 phase, prior to the beginning of DNA replication. Controlled administration and clean G1 arrest from transient CDK4/6 inhibition can protect bone marrow and reduce hematologic adverse events (“AEs”) caused by cytotoxic therapy and may increase the ability to receive longer treatment durations. Transient CDK4/6 inhibition also may improve survival in combination with leading and emerging treatments through myeloprotection, enabling increased cytotoxic exposure while protecting the immune system, and/or through immunomodulation, which may improve patients’ overall anti-tumor immune responses. We are exploring the use of trilaciclib in a variety of trials across multiple tumor types and treatment combinations to optimize these potential benefits of proactive multi-lineage myeloprotection and survival in combination with leading and emerging treatments for patients globally.

We use “COSELA” when referring to our FDA approved drug and “trilaciclib” when referring to our development of COSELA for additional indications.

COSELA is a prescription medicine used to help reduce the occurrence of low blood cell counts caused by damage to bone marrow from chemotherapy. COSELA is used to treat adults taking certain chemotherapies (platinum/etoposide or topotecan) for extensive-stage small cell lung cancer.

COSELA is an injection for intravenous (IV) use given within four hours before chemotherapy.

Commercial Product



On February 12, 2021, COSELA was approved by the FDA to decrease the incidence of chemotherapy-induced myelosuppression in adult patients treated with a platinum/etoposide-containing regimen or topotecan-containing regimen for ES-SCLC. COSELA became commercially available through our specialty distributor network on March 2, 2021.

We announced on March 25, 2021 that COSELA had been included in two updated National Comprehensive Cancer Network® (“NCCN”) Clinical Practice Guidelines in Oncology (NCCN Guidelines®): The Treatment Guidelines for Small Cell Lung Cancer and the Supportive Care Guidelines for Hematopoietic Growth Factors. These guidelines document evidence-based, consensus-driven management to ensure that all patients receive preventive, diagnostic, treatment, and supportive services that are most likely to lead to optimal outcomes. On October 1, 2021, we announced that the permanent J-code for COSELA that was issued in July 2021 by the Centers for Medicare & Medicaid Services (CMS) is now effective for provider billing for all sites of care. All hospital outpatient departments, ambulatory surgery centers and physician offices in the United States have one consistent Healthcare Common Procedure Coding System (HCPCS) code to standardize the submission and payment of COSELA insurance claims across Medicare, Medicare Advantage, Medicaid and commercial plans. Our new technology add-on payment (NTAP) for COSELA which provides additional payment to inpatient hospitals above the standard Medicare Severity Diagnosis-Related Group (MS-DRG) payment amount also became effective for provider billing on October 1, 2021.

We are also exploring potential use of trilaciclib in a variety of tumors, including breast cancer, bladder cancer, and in trials designed to inform the design of future additional pivotal studies across multiple tumor types and treatment combinations including certain chemotherapies, checkpoint inhibitors, and antibody-drug conjugates (ADCs).

In June 2020, we entered into a three-year co-promotion agreement for COSELA in the United States and Puerto Rico with Boehringer Ingelheim Pharmaceuticals, Inc. ("Boehringer Ingelheim"). In December 2021, the Company and Boehringer Ingelheim mutually agreed to end the co-promotion agreement for COSELA, effective March 2022. At that time, we announced that we would hire and deploy a team of G1 oncology sales representatives to allow us to target all accounts to accelerate sales activities and help maximize the adoption of COSELA. As of February 21, 2022, all G1 sales representatives were hired, trained, and deployed into their respective regions. Starting from the second quarter of 2022, the sales of COSELA has been solely conducted by our COSELA sales team.

On August 3, 2020, we entered into an exclusive license agreement with Nanjing Simcere Dongyuan Pharmaceutical Co., Ltd ("Simcere") for the development and commercialization of trilaciclib in all indications in Greater China (mainland China, Hong Kong, Macau and Taiwan). On July 13, 2022, the NMPA conditionally approved COSELA (trilaciclib hydrochloride for injection) for marketing in China. COSELA is indicated in China to decrease the incidence of chemotherapy-induced myelosuppression in adult patients when administered prior to a platinum/etoposide-containing regimen for ES-SCLC. As a result of receiving approval in China, Simcere paid the Company a \$13.0 million milestone (less applicable withholding taxes of \$1.3 million) payment in the third quarter of 2022. In total, we may receive up to \$156.0 million in milestone payments. We will also receive double-digit royalties on annual net sales of COSELA in China, of which there were none during the year ended December 31, 2022.

Product Portfolio

Trilaciclib is a first-in-class therapy designed to help protect against chemotherapy-induced myelosuppression. Trilaciclib, a novel transient IV CDK4/6 inhibitor has unique attributes including rapid onset from IV administration, potent and selective CDK4 and CDK6 inhibition and a short half-life. Controlled administration and clean G1-phase arrest reduce hematologic AEs caused by cytotoxic therapy and may increase patients' abilities to receive longer treatment durations. Transient CDK4/6 inhibition also modulates multiple immune functions ("immunomodulation") while allowing beneficial T cell proliferation which may improve patients' anti-tumor immune responses.

Trilaciclib transiently blocks progression through the cell cycle. This provides benefits which manifest depending on the tumor type and therapeutic backbone, including: (1) proactive multi-lineage myeloprotection to protect the bone marrow from cytotoxic damage, and (2) potentially improved survival in combination with leading and emerging treatments.

We are pursuing trilaciclib across key growth platforms. First, trilaciclib provides proactive multi-lineage myeloprotection by transiently arresting hematopoietic stem and progenitor cells ("HSPCs"), helping to protect them from damage caused by cytotoxic therapy thereby minimizing cytopenias across neutrophils, erythrocytes, and platelets. These proactive multi-lineage myeloprotection benefits were seen in our three Phase 2 double-blind, placebo-controlled clinical trials in ES-SCLC, where highly myelosuppressive chemotherapy regimens are administered multiple days in a row. In addition, these proactive multilineage myeloprotection benefits were seen in the initial data from the Phase 2 trial of trilaciclib in combination with the antibody-drug conjugate, sacituzumab govitecan-hziy in patients with unresectable locally advanced or metastatic triple-negative breast cancer (TNBC). Initial data on the first 18 patients showed a clinically meaningful on-target effect of trilaciclib to reduce (>50%) the rates of multiple adverse events compared to the previously published sacituzumab govitecan-hziy single agent safety profile from the ASCENT trial, including myelosuppression (neutropenia, anemia, thrombocytopenia).

Second, trilaciclib has the potential to improve survival in combination with leading and emerging treatments through two key benefits, including (1) myeloprotection, which may allow increased cytotoxic exposure while protecting the immune system, and/or (2) immunomodulation, which can improve the overall immune response. The immunomodulation properties of trilaciclib is believed to occur through multiple factors, including (1) enhancing T cell activation (via increased antigen presentation and secretion of IL-2 and IFN γ), (2) favorably altering the tumor microenvironment (via increased chemokines responsible for trafficking T cells to tumors and reducing the number and function of immunosuppressive cell populations), and (3) improving long-term immune surveillance (via increased generation of memory CD8 $^{+}$ T cells). We are exploring these potential survival benefits of trilaciclib in a variety of ongoing Phase 2 and Phase 3 clinical trials. A meaningful anti-tumor efficacy benefit was observed in our Phase 2 mTNBC study in which trilaciclib led to a significant improvement in overall survival (OS) when administered in combination with chemotherapy (gemcitabine/carboplatin) compared to chemotherapy alone. These are the foundational data for our ongoing PRESERVE 2 pivotal Phase 3 trial in 1L mTNBC.

We are evaluating the potential benefits of trilaciclib across a variety of treatment settings and potential combinations to maximize the applicability of the drug to potential future treatment paradigms. We currently have four ongoing clinical trials: a pivotal Phase 3 trial in 1L mTNBC, a Phase 2 trial in combination with an antibody-drug conjugate (“ADC”) in 2L/3L mTNBC, a Phase 2 trial in neoadjuvant TNBC designed to validate trilaciclib’s immune-based mechanism of action (“MOA”), and a Phase 2 trial in 1L bladder cancer with chemotherapy induction and a checkpoint inhibitor maintenance. These studies will evaluate trilaciclib’s benefits of myeloprotection and/or immunomodulation to improve anti-tumor efficacy in combination with leading and emerging treatment options. We are also conducting significant preclinical work to assess the additive/synergistic potential of trilaciclib with a variety of novel and emerging therapeutic agents to inform future clinical trials. New non-clinical data presented in September 2022 showed consistent synergistic potential of trilaciclib to enhance the cancer immunity cycle by enhancing T cell activation, favorably altering the tumor microenvironment, and improving long-term surveillance. Our overall development approach includes monitoring and anticipating the evolving future standards of care across tumor types to design or support studies that will generate important data for trilaciclib across relevant future treatment settings and maximize future usage.

In November 2022, we disclosed encouraging initial data from our ongoing Phase 2 trial of trilaciclib in combination with the ADC, sacituzumab govitecan-hziy. Initial data demonstrate the potential for an on-target effect of trilaciclib to meaningfully reduce the rates of adverse events associated with sacituzumab govitecan-hziy, including myelosuppression, diarrhea, and potentially alopecia (due to the presence of CDK4/6-expressing cells in the intestinal crypt and hair follicles) compared to the previously published sacituzumab govitecan-hziy single agent safety profile. We expect to release a more comprehensive data set including safety and initial efficacy results in the second quarter of 2023.

In December 2022, we reported data at the annual San Antonio Breast Cancer Symposium (SABCS) from the initial dose finding Phase 2 portion of the MOA trial, a multicenter, open-label, single-arm, neoadjuvant study where tumor tissue was obtained at baseline prior to study drug administration. Initial results from the first 24 patients show favorable alterations in the tumor microenvironment from a single dose of trilaciclib monotherapy (240 mg/m 2) as measured by increases in the proportions of CD8 $^{+}$ T cells compared to T regulatory cells (Tregs) in patients with early-stage TNBC. No trilaciclib related serious adverse events have been reported. We expect the pathologic complete response data to be available in the second quarter of 2023.

In January 2023, we provided an initial update on PRESERVE 3, the ongoing, randomized, open-label Phase 2 study of first-line platinum-based chemotherapy and maintenance therapy with the immune checkpoint inhibitor, avelumab, administered alone, or in combination with trilaciclib, in patients with untreated, locally advanced or metastatic urothelial carcinoma (“mUC”). The confirmed overall response rate (ORR) per RECIST v1.1 was comparable between arms and we believe that longer-term follow-up is required to characterize additional anti-tumor endpoints including median duration of confirmed objective response and progression-free survival (PFS). Additional data, including the primary endpoint of PFS, are anticipated in mid-2023.

On February 13, 2023, we announced top line results from our pivotal Phase 3 PRESERVE 1 trial showing that the trial achieved its co-primary endpoints related to severe neutropenia with statistical significance, including clinically meaningful and statistically significant reductions in both occurrence of severe neutropenia during induction (placebo=20% vs. trilaciclib=1%; p<0.001) and mean duration of severe neutropenia in Cycles 1 through 4 (placebo=1.3 days vs. trilaciclib=0.1 days; p<0.001). Patients receiving trilaciclib experienced fewer chemotherapy dose reductions and delays. Other secondary measures of myeloprotection also favored trilaciclib, including reductions in Febrile Neutropenia (placebo=5% vs. trilaciclib=0%) and ESA administration (placebo=7% vs. trilaciclib=3%). These results further validate the myeloprotection benefit of trilaciclib. In addition, patients receiving trilaciclib had a clinically meaningful reduction in the rate of chemotherapy-induced diarrhea, including a 50% reduction in the rate of Grade 3/4 diarrhea and a 30% reduction in the rate of any grade diarrhea, compared to placebo.

However, despite the achievement of the co-primary endpoints and other secondary measures of myeloprotection and tolerability, early anti-tumor efficacy data, including overall response rate (ORR), favor patients receiving placebo compared to trilaciclib (61% and 50% ORRs, respectively). Given the differential in these anti-tumor efficacy metrics and the low likelihood of achieving the progression-free survival (PFS) and overall survival (OS) endpoints, we have made the decision to discontinue PRESERVE 1. Other clinical trials of trilaciclib in combination with different chemotherapies in patients with extensive-stage small cell lung cancer and triple negative breast cancer did not demonstrate this adverse survival signal.

Trilaciclib Development Pipeline

Candidate	Indication	Phase / Status	Initial Results	Additional Results	Endpoints	Development & Commercialization Rights (all indications)
trilaciclib	1L metastatic Triple negative breast cancer (mTNBC)	Registrational Phase 3 trial (enrollment completed in October 2022)	Interim OS analysis expected in 1H 2024		Primary: OS* Secondary: PRO, myeloprotection, PFS/ORR	G1 Therapeutics owns all global development and commercial rights across all indications, with the exception of Greater China (Simcere)
	2L/3L TNBC in combination with an Antibody-drug conjugate (ADC)	Phase 2 trial (enrolling)	Initial safety data announced in 4Q 2022	PFS results expected in 2Q 2023	Primary: PFS Secondary: ORR, OS, safety, myeloprotection, others	
	Neoadjuvant TNBC to evaluate Mechanism of action (MOA)	Phase 2 trial (enrollment completed in August 2022)	MOA data presented in 4Q 2022	pCR results expected in 2Q 2023	Primary: Immune-based MOA Secondary: pCR, immune response, others	
	1L Bladder cancer (mUC)	Phase 2 trial (enrollment completed in August 2022)	ORR data announced in 1Q 2023	PFS results expected in mid-2023	Primary: PFS Secondary: ORR, OS, safety and efficacy, others	

PFS=progression-free survival; OS=overall survival; PRO=patient reported outcome; ORR=overall response rate; pCR=pathological complete response; MOA=mechanism of action.

*Initial results expected: Phase 3 1L mTNBC trial: interim OS analysis; if the trial meets the interim analysis stopping rule, it will terminate and we will report the topline results. If it does not, the trial will continue to the final analysis

1L Metastatic Triple-Negative Breast Cancer (mTNBC)

Building upon the robust OS benefit observed in the prior Phase 2 study, we initiated PRESERVE 2, a pivotal Phase 3 trial of trilaciclib in patients receiving first-line gemcitabine and carboplatin (GC) for locally advanced unresectable or mTNBC; enrollment was completed in this trial in October 2022. This study is evaluating trilaciclib in PD-L1 positive and negative patients and largely replicates the design of the positive Phase 2 trial which demonstrated improved anti-tumor efficacy across patients. Anti-tumor efficacy and myeloprotection endpoints are being assessed in this study. We broadened enrollment of the 1L cohort in this study to also include patients who received checkpoint inhibitors in the neo/adjuvant setting to ensure that we develop clinical experience for trilaciclib in this increasingly relevant patient population.

An interim overall survival (OS) analysis at 70% of events is currently anticipated in the first half of 2024 to evaluate the effect of trilaciclib on overall survival in patients with TNBC when administered prior to treatment with GC. If the OS analysis achieves the threshold of statistical significance at this interim assessment, the trial will be terminated, and the data will be reported. In that event, we would discuss the data with regulatory health authorities regarding filing for potential approval of this indication.

Phase 2 Study of Trilaciclib in Combination with an Antibody-Drug Conjugate (ADC)

Triple negative breast cancer (“TNBC”) is an area where trilaciclib, in our Phase 2 study, and ADCs – medicines that deliver targeted chemotherapy agents to cancer cells – have both shown clinically meaningful and substantial improvements in overall survival. We believe that trilaciclib and ADCs could act synergistically to improve patient outcomes with fewer myelosuppressive side effects.

In November 2022, we disclosed encouraging initial safety and tolerability data from our ongoing Phase 2 trial of trilaciclib in combination with the ADC, sacituzumab govitecan-hzzy. Initial data demonstrate the potential for an on-target effect of trilaciclib to meaningfully reduce the rates of adverse events associated with sacituzumab govitecan-hzzy, including myelosuppression, diarrhea, and potentially alopecia (due to the presence of CDK4/6-expressing cells in the intestinal crypt and hair follicles) compared to the previously published sacituzumab govitecan-hzzy single agent safety profile. Additional data from this trial are expected in the second quarter of 2023 and will include anti-tumor efficacy endpoints as measured by the primary endpoint of PFS.

Phase 2 Study to Confirm the Immune-Based Mechanism of Action (MOA) of Trilaciclib

In December 2022, we provided initial results from 24 patients with early-stage TNBC receiving neoadjuvant treatment enrolled in the Phase 2 study of trilaciclib and chemotherapy, a multicenter, open-label, single-arm, study, to evaluate and confirm the immune-based mechanism of action (“MOA”) of trilaciclib.

Tumor tissue was obtained at baseline prior to study drug administration with patients receiving a single dose of trilaciclib monotherapy (240 mg/m²), followed by a tumor biopsy approximately one week later to assess the ability of trilaciclib to favorably alter the tumor microenvironment. Patients then entered the treatment phase in which trilaciclib is administered on day 1 of each cycle of anthracycline/cyclophosphamide for four cycles followed by trilaciclib administered on day 1 of each weekly cycle of taxane chemotherapy for 12 cycles. Pembrolizumab and/or carboplatin was added at the discretion of the investigator. Three to five weeks after the treatment phase, patients will have curative surgery and a final tumor tissue sample will be collected if the patient has residual disease. The primary objective is to evaluate the immune-based mechanism of action of a single dose of trilaciclib as measured by the change in the ratio of CD8+ tumor-infiltrating lymphocytes (TILs) to Tregs in the tumor microenvironment.

Initial results presented in a poster session at the annual San Antonio Breast Cancer Symposium (SABCS) in December 2022 show favorable alterations in the tumor microenvironment from a single dose of trilaciclib monotherapy as measured by increases in the proportions of CD8+ T cells compared to T regulatory cells (Tregs) in patients with early-stage TNBC. The improvement of the ratio of CD8+ T cells to Tregs may enhance the overall anti-tumor immune response and support the trends we observed in preclinical studies and in our Phase 2 trial in TNBC. No trilaciclib related serious adverse events have been reported. We anticipate the pathologic complete response (pCR) data to be available in the second quarter of 2023.

1L Bladder Cancer

In January 2023, we provided an initial update on PRESERVE 3, an ongoing, randomized, open-label Phase 2 study of first-line platinum-based chemotherapy and maintenance therapy with the immune checkpoint inhibitor, avelumab, administered alone, or in combination with trilaciclib, in patients with untreated, locally advanced or mUC. Ninety-two patients with mUC were randomized (1:1) to receive either gemcitabine/platinum chemotherapy (induction phase) followed by avelumab (checkpoint inhibitor) maintenance therapy (maintenance phase) or trilaciclib prior to gemcitabine/platinum chemotherapy followed by trilaciclib plus avelumab maintenance therapy.

The confirmed ORR per RECIST v1.1 was comparable between arms with ORR being 40.0% (n=18/45) and 46.7% (n=21/45) among evaluable patients in the trilaciclib and control arms, respectively. We believe that longer-term follow-up is required to characterize additional anti-tumor endpoints including median duration of response and PFS. Though early, the safety and tolerability profile of trilaciclib administered prior to chemotherapy is generally consistent with that expected in patients treated with gemcitabine plus cisplatin/carboplatin and avelumab maintenance for previously untreated advanced or mUC. The data monitoring committee reviews the safety of trilaciclib on an ongoing basis and recommended that the study continue as planned. Additional safety and efficacy data, including the primary endpoint of PFS, are anticipated mid-2023.

Investigator Sponsored Studies (ISS) Program

The Company has an Investigator Sponsored Studies (“ISS”) program. An ISS is a study that is developed and conducted by a qualified physician investigator external to the Company who assumes full responsibility for the conduct of the study. An ISS can take a variety of forms including clinical and nonclinical studies that may be interventional or observational. Our ISS program supports studies that align with our areas of scientific interest. In the fourth quarter of 2022, the Company announced that we were supporting a new Phase 2 ISS of trilaciclib and lurbinectedin in patients with ES-SCLC. This is a prospective, non-randomized, single-arm Phase 2 study, to evaluate trilaciclib administered intravenously prior to lurbinectedin in approximately 30 subjects with platinum refractory ES-SCLC. The primary endpoint is the rate of grade 4 neutropenia in any cycle. Secondary endpoints include mean duration (days) of grade 4 neutropenia in cycle 1, overall survival (OS), progression-free survival (PFS), overall rate of response (ORR), quality of life assessments, and the use of secondary/reactive supportive measures including G-CSF administration.

Market opportunities for trilaciclib

Cancer is the second leading cause of death in the United States with an estimated 1.9 million new cases and 609,000 deaths in 2022, according to the American Cancer Society. Cytotoxic therapies (chemotherapies, antibody-drug conjugates, others) are the standard of care treatment for multiple cancers.

Myelosuppression is a common serious adverse event related to cytotoxic therapies. These treatments have significant clinical utility and continue to be the most effective treatment for many cancers. However, cytotoxic therapies also damage HSPCs (myelosuppression) and the immune system (immunosuppression), leading to severe adverse effects and limiting anti-tumor activity. Myelosuppression causes abnormally low numbers of red blood cells, or anemia, abnormally low numbers of neutrophils, or neutropenia, and/or abnormally low numbers of platelets, or thrombocytopenia. Treating or preventing the myelosuppressive side effects of cytotoxic therapy presents a large market opportunity, with chemotherapy utilized in more than one million patients in North America annually, and newer cytotoxic agents such as ADCs continuing to demonstrate benefits in expanding patient populations. The only current treatments for chemotherapy-induced myelosuppression are rescue interventions like growth factors and/or transfusions given after myelosuppression occurs. COSELA is the only product approved to proactively prevent chemotherapy-induced myelosuppression and we continue to evaluate the utility of trilaciclib to prevent myelosuppression in clinical trials with existing and newer cytotoxic therapies.

Additionally, significant unmet medical need continues to exist for products that can meaningfully improve the anti-tumor efficacy of existing and emerging standard of care therapies. Despite continued advancements of new treatment modalities, additional novel therapies are needed to further improve anti-tumor efficacy, including in combination with newer agents. Trilaciclib is a novel compound with the potential to meaningfully improve anti-tumor efficacy across tumor types when administered in treatment combinations. We are studying trilaciclib broadly in multiple Phase 2 and Phase 3 clinical trials to evaluate its potential to improve anti-tumor efficacy and reduce adverse events commonly associated with cytotoxic therapies:

- *Extensive-stage small cell lung cancer (ES-SCLC).* According to the American Cancer Society, SCLC accounts for approximately 10-15% of all lung cancers. Approximately 27,000 people are treated annually in the United States for ES-SCLC in first and second line. First-line treatment of ES-SCLC in the United States is typically a chemotherapy regimen of carboplatin and etoposide, which has significant myelosuppressive side effects. Combination treatment with chemotherapy and immunotherapy has emerged as the standard of care in the United States. While these patients often respond to first-line therapy, approximately 90% progress within one year and die within two years. Five-year survival rates are less than 5% for patients with ES-SCLC. Topotecan, approved for SCLC in 2007, is a standard treatment used in the second/third line setting and is highly myelosuppressive. Based on market research we have completed to date, many physicians see proactive myeloprotection as a better approach for patients and would incorporate trilaciclib into their SCLC treatment regimen. We believe the total market value of the trilaciclib opportunity for all eligible ES-SCLC patients in the U.S. exceeds \$700 million.
- *Breast cancer.* We are evaluating the use of trilaciclib in a variety of breast cancers, including metastatic triple negative breast cancer (mTNBC) and other high-risk, early-stage breast cancer subtypes. According to the World Health Organization, an estimated 2.3 million cases of breast cancer are diagnosed annually worldwide. In 2022, it is estimated that 43,250 women and 530 men died of breast cancer. Triple negative breast cancer makes up approximately 15-20% of such diagnosed breast cancers. Because mTNBC cells lack key growth-signaling receptors, patients do not respond well to medications that block estrogen, progesterone, or HER2 receptors. Instead, treating mTNBC typically involves chemotherapy, radiation, and surgery. In general, survival rates tend to be lower with mTNBC compared to other forms of breast cancer, and mTNBC is also more likely to return after it has been treated, especially in the first few years after treatment.
- *Bladder cancer.* We are evaluating the use of trilaciclib in bladder cancer in a Phase 2 study that initiated in the second quarter of 2021. There have been multiple positive registrational studies and approvals of checkpoint inhibitors in combination with chemotherapy, and these combination regimens are emerging as a standard of care in multiple tumor types. Data from our trial of trilaciclib in combination with the checkpoint inhibitor Tecentriq® (atezolizumab) and chemotherapy in patients with ES-SCLC showed myeloprotection benefits without impairing anti-tumor efficacy. This Phase 2 trial in bladder cancer explores the use of trilaciclib in combination with chemotherapy for induction therapy and in combination with a checkpoint inhibitor for maintenance therapy. We believe trilaciclib may improve outcomes for these patients based on potentially synergistic benefits with both chemotherapy and immunotherapy. The American Cancer Society estimates that there will be over 82,000 new cases of bladder cancer diagnosed in the United States in 2023, and approximately 17,000 reported annual deaths.

Advantages of trilaciclib

Trilaciclib is a novel transient IV CDK4/6 inhibitor with unique attributes including rapid onset from IV administration, potent and selective CDK4 and CDK6 inhibition and a short half-life. We believe that treating patients with trilaciclib prior to the administration of cytotoxic therapy or immunotherapy regimens may have the following benefits and advantages:

- *Potential to decrease the incidence of chemotherapy-induced myelosuppression.* Trilaciclib has been rationally designed and optimized to preserve HSPCs from damage by cytotoxic therapy, thereby minimizing cytopenias across neutrophils, red cells, and platelets. Trilaciclib has the potential to decrease the clinically relevant consequences of these cytopenias and improve patient outcomes.
- *Potential to reduce cytotoxic therapy dose-delays and dose reductions.* Chemotherapy-induced myelosuppression is the major dose limiting toxicity of chemotherapy and can lead to dose reductions and schedule delays that can limit therapeutic benefit. Trilaciclib has been designed specifically to minimize myelosuppression and has the potential to enable maintenance of the indicated and planned chemotherapeutic dose and schedule.
- *Potential to improve anti-tumor efficacy and prolong overall survival in treatment combinations.* Trilaciclib has demonstrated the ability to improve anti-tumor efficacy and increase overall survival in our Phase 2 mTNBC study. Trilaciclib may increase patients' ability to receive more cytotoxic therapy, protect their immune systems from damage by cytotoxic therapy, and improve their immune responses by modulating multiple immune functions while also allowing beneficial T cell proliferation. We are evaluating trilaciclib's ability to improve anti-tumor efficacy across multiple tumor types and in various treatment combinations in ongoing clinical studies.
- *Potential to improve the patient experience as measured by validated Patient Reported Outcomes (PRO) instruments.* PRO data from our randomized trials demonstrate that patients receiving trilaciclib prior to chemotherapy report less fatigue and improved physical and functional well-being.
- *Potential for use with cytotoxic therapy / immune checkpoint inhibitors combinations.* Immune checkpoint inhibitors are often combined with cytotoxic therapy. We have demonstrated that trilaciclib mitigates myelosuppression in ES-SCLC patients treated with chemotherapy in combination with the immune checkpoint inhibitor Tecentriq. Additionally, our preclinical data suggests there may be meaningful potential synergistic benefits in terms of anti-tumor efficacy when combining trilaciclib with checkpoint inhibitors in the appropriate treatment settings.
- *Convenience of administration.* Trilaciclib is designed to be administered via an IV infusion prior to chemotherapy treatment. This dosing regimen fits with standard clinical practice for chemotherapy administration with or without checkpoint inhibitors.
- *Potential to reduce the cost of rescue interventions.* Chemotherapy-induced myelosuppression leads to severe adverse side effects, such as fatigue due to anemia, infections due to neutropenia, and bleeding due to thrombocytopenia. These adverse side effects often require costly rescue interventions such as hospitalizations, transfusions, antibiotic usage and/or treatment with growth factor support. Because trilaciclib has been designed specifically to minimize myelosuppression, we believe that it has the potential to reduce these costs. The positive multilineage myeloprotection data we have reported to date and our market research with payers supports the value proposition of trilaciclib to reduce these costs.
- *Potential broad applicability.* We believe trilaciclib has the potential to benefit patients treated with multiple myelosuppressive cytotoxic regimens, including targeted chemotherapy (ADCs), across a wide range of tumor types.

Trilaciclib: preclinical and clinical development

Preclinical development

We have published extensive biochemical, cellular and *in vivo* data on trilaciclib. Our preclinical data show that trilaciclib can induce transient and reversible cell-cycle arrest of HSPCs; helps protect HSPCs from damage caused by chemotherapy; preserves bone marrow and immune system function; improves complete blood count (CBC) recovery; helps protect from bone marrow exhaustion; prevents myeloid skewing and consequent lymphopenia; activates T-cells in the tumor microenvironment; and enhances chemotherapy and checkpoint inhibitor anti-tumor activity.

We are currently conducting extensive preclinical development work to assess the synergistic potential of trilaciclib with a variety of novel and emerging therapeutic agents to identify synergies to evaluate in future clinical trials.

Completed Phase 1 clinical trial

In 2015, we completed a Phase 1 clinical trial of trilaciclib in 45 healthy volunteers in the Netherlands. In this trial, subjects in seven cohorts were administered a single ascending dose of trilaciclib between 6 mg/m² and 192 mg/m². The purpose of this trial was to evaluate the safety including dose limiting toxicities, or DLTs, serious adverse events, or SAEs, adverse events, or AEs, and pharmacokinetics, or PK, and identify a biologically effective dose of trilaciclib. Published data from this trial demonstrated that trilaciclib was well tolerated, with no DLTs or SAEs reported. These data demonstrated that the administration of trilaciclib resulted in the robust cell-cycle arrest of HSPCs for at least 32 hours and supported a starting dose of 200 mg/m² for the initial studies in patients.

Completed randomized clinical trials

Trilaciclib (IV CDK4/6 inhibitor):

Indications	Regimen	Status	Phase	Publications
1 st -line Small Cell Lung Cancer (study 1 in package insert)	+Tecentriq/ carboplatin/ etoposide	COSELA® (trilaciclib) approved to decrease the incidence of chemotherapy- induced myelosuppression in adult patients when administered prior to a platinum/etoposide-containing regimen or topotecan-containing regimen for ES- SCLC.	2	International Journal of Cancer (Daniel <i>et al.</i>), December 2020
1 st -line Small Cell Lung Cancer (study 2 in package insert)	+ etoposide/ carboplatin		1b/2	Annals of Oncology (Weiss <i>et al.</i>) August 2019
2 nd /3 rd -line Small Cell Lung Cancer (study 3 in package insert)	+ topotecan		1b/2	Advances in Therapy (Hart <i>et al.</i>), November 2020
Metastatic Triple Negative Breast Cancer	+gemcitabine/carboplatin	Phase 2 complete; Phase 3 fully enrolled with interim OS analysis at 70% of events expected in 1H 2024.	2	Lancet Oncology (Tan <i>et al.</i>), September 2019
1L metastatic Colorectal cancer (CRC)	FOLFOXIRI + bevacizumab	Phase 3 results announced in February 2023. Trial discontinued.	3	To be published

Phase 2 clinical program in SCLC (study 1 in package insert)

Based on the encouraging preliminary data, we advanced both SCLC trials into the randomized, placebo-controlled, double-blind Phase 2 segment. Enrollment in the first-line SCLC Phase 2 trial was completed in the second quarter of 2017 and positive multilineage myeloprotection results were reported in March 2018, with additional data reported at the European Society for Medical Oncology (ESMO) 2018 Congress and published in Annals of Oncology (Weiss *et al.*) in 2019. Enrollment in the second/third-line SCLC Phase 2 trial was completed in the second quarter of 2018, with positive multilineage myeloprotection data reported in the fourth quarter of 2018 and full data presented at an oral session at the American Society of Clinical Oncology (ASCO) 2019 Annual Meeting. These data were also published in the International Journal of Cancer (Daniel *et al.*; 2020).

In December 2016, we entered into a non-exclusive agreement with Genentech to evaluate the combination of Genentech's immune checkpoint, anti-PD-L1 antibody Tecentriq with trilaciclib. Our first trial under the agreement was in first-line treatment for patients with ES-SCLC receiving carboplatin and etoposide. We initiated enrollment in this randomized, double-blinded, placebo-controlled Phase 2 trial in the second quarter of 2017. The goals of the clinical trial were to evaluate the safety, OS, myeloprotection, PK, and anti-tumor activity of trilaciclib in combination with Tecentriq and chemotherapy. We completed enrollment in the first quarter of 2018. We reported positive multilineage myeloprotection data and preliminary progression free survival (PFS) in November 2018, and presented updated safety and anti-tumor efficacy data at the 2019 ESMO Congress.

Phase 1b/2 clinical trial in first-line treatment of SCLC (study 2 in package insert)

In 2015, we initiated a Phase 1b/2 clinical trial in first-line ES-SCLC patients across multiple sites in the United States and Europe. The Phase 1b segment of the trial was designed to confirm the trilaciclib dose to be used in the randomized, placebo-controlled Phase 2 segment. The goals of the trial were to evaluate the safety, myeloprotection, pharmacokinetics, and anti-tumor activity of trilaciclib in combination with the existing first-line chemotherapy standard of care regimen of etoposide and carboplatin and to confirm the dose to be used in future trials. All patients in the Phase 1b segment were administered three-week cycles of trilaciclib plus etoposide/carboplatin, with an estimated four to six cycles administered in total per patient based on historical practice. Trilaciclib was administered as an IV infusion prior to every dose of etoposide/carboplatin.

In the Phase 1b section of this trial, as reported at the American Society of Clinical Oncology meeting in June 2017, we treated 19 patients with multiple cycles of trilaciclib and chemotherapy and did not have a single episode of febrile neutropenia – one of the most common adverse consequences of these chemotherapy regimens. We also observed a dose dependent reduction in grade 3/4 hematologic adverse events. The results from the Phase 1b study support the hypothesis that trilaciclib could ameliorate the significant acute and long-term consequences of chemotherapy-induced myelosuppression by preserving hematopoietic and immune system function. Based on these results, we initiated the randomized, placebo-controlled Phase 2 segment of the trial in fourth-quarter of 2016 with a trilaciclib dose of 240 mg/m² and completed enrollment of a total of 77 patients in the second quarter of 2017. We reported positive multilineage myeloprotection data from the Phase 2 segment of the trial in March 2018, with additional data from the trial presented at the 2018 ESMO Congress and final data published in *Annals of Oncology* (Weiss *et al.*; 2019).

Phase 1b/2 clinical trial in second/third-line treatment of SCLC (study 3 in package insert)

In 2015, we initiated a Phase 1b/2 clinical trial in second/third-line SCLC patients across multiple sites in the United States and Europe. The Phase 1b segment of the trial was designed to confirm the trilaciclib dose to be used in the randomized, placebo-controlled Phase 2 segment of the trial. The goals of the trial were to evaluate the safety, myeloprotection, PK, and anti-tumor activity of trilaciclib in combination with the existing second/third-line chemotherapy standard of care regimen of topotecan and to confirm the dose to be used in future trials. All patients in the Phase 1b segment were administered three-week cycles of trilaciclib plus topotecan until the progression of disease. Trilaciclib was administered as an IV infusion prior to every dose of topotecan. Trilaciclib doses of 200 to 280 mg/m² and topotecan doses of 0.75 to 1.5 mg/m² were tested across 7 cohorts in the completed Phase 1b open-label segment of the trial. The doses chosen for the randomized, placebo-controlled Phase 2 segment of this trial were trilaciclib 240 mg/m² + topotecan 0.75 mg/m² and trilaciclib 240 mg/m² + topotecan 1.5 mg/m².

In the Phase 1b segment we treated 32 patients with trilaciclib and topotecan without any episodes of febrile neutropenia or treatment related SAEs. Preliminary results from Phase 1b were reported at the IASCLC World Conference on Lung Cancer in December 2016. Based on these results, the Phase 2 segment was initiated in the first quarter of 2017 and consists of a double blind-design with 91 patients randomized on a 2:1 basis to receive trilaciclib plus topotecan, or placebo plus topotecan. We completed enrollment in this trial in the second quarter of 2018 and reported multilineage myeloprotection data in the fourth quarter of 2018. Safety and anti-tumor efficacy data were presented at the 2019 ASCO Annual Meeting. These data were published in the 2019 *Advanced in Therapy* (Hart *et al.*; 2020).

Our double-blind placebo controlled trials of trilaciclib in SCLC trials demonstrated that, when added to standard of care chemotherapy or chemotherapy/checkpoint inhibitor regimens, trilaciclib mitigates clinically significant chemotherapy-induced myelosuppression. The U.S. Food and Drug Administration (“FDA”) granted Breakthrough Therapy Designation for trilaciclib based on myeloprotection data from our three randomized, double-blind, placebo-controlled SCLC clinical trials, as well as safety data collected across all completed and ongoing clinical trials. The Breakthrough Therapy program is designed to expedite development and review of drugs intended for serious or life-threatening conditions. In August 2020, the FDA accepted our New Drug Application (NDA) for trilaciclib in SCLC, granting Priority Review with a Prescription Drug User Fee Act (PDUFA) action date of February 15, 2021. COSELA™ (trilaciclib) was approved by the FDA on February 12, 2021 to decrease the incidence of chemotherapy-induced myelosuppression in adult patients when administered prior to a platinum/etoposide-containing regimen or topotecan-containing regimen for ES-SCLC. Discussions with European regulatory authorities have indicated existing data is sufficient to support a Marketing Authorization Application (MAA) to the European Medicines Agency (EMA) for trilaciclib for myeloprotection in SCLC, which we plan to pursue in collaboration with a partner.

Phase 2 clinical trial in metastatic Triple Negative Breast Cancer (mTNBC)

In January 2017, we initiated an open label, randomized, Phase 2 trial that enrolled 102 patients with first, second or third-line mTNBC across multiple sites in the United States and Europe. The goals of the clinical trial are to evaluate the safety, myeloprotection, PK, and anti-tumor activity of trilaciclib in combination with the existing chemotherapy standard of care regimen of gemcitabine and carboplatin (GC). We completed enrollment in the second quarter of 2018. At the December 2018 SABCS, we presented preliminary data demonstrating improvement in progression-free survival (PFS). We presented additional safety and anti-tumor efficacy data at the 2019 ESMO Congress. The results of the trial demonstrated significant improvement in overall survival (OS) (preliminary). Though the trial did not meet the primary myeloprotection endpoint, patients receiving trilaciclib were able to receive ~50% more cycles of chemo, without additional hematological toxicity. These data were presented at the 2019 ESMO Congress and concurrently published in *The Lancet Oncology* (Tan *et al.*; 2019). Updated safety and efficacy data from this trial were presented at the 2020 SABCS. Data included that compared to GC alone (Group 1), OS was improved in both trilaciclib arms (Groups 2 and 3) (Group 2: HR=0.31, p=0.0016; Group 3: HR=0.40, p=0.0004). Median OS was 12.6 months in Group 1, not reached for Group 2, and 17.8 months in Group 3. The median OS for Groups 2 and 3 combined was 19.8 months (HR=0.37, p<0.0001). OS findings in patients receiving trilaciclib were consistent with previously reported data from this trial. The median OS for GC alone (Group 1, 12.6 months) was consistent with the previous trial findings and historical data. Patients with both PD-L1-positive and PD-L1-negative tumors treated with trilaciclib and GC demonstrated improvement in OS compared to patients receiving GC alone, with the PD-L1-positive subset achieving statistically significant improvement. Further, data from T cell clonality analyses suggest that administering trilaciclib prior to chemotherapy enhanced immune system function.

Phase 3 clinical trial in metastatic colorectal cancer (PRESERVE 1) - Trial discontinued

PRESERVE 1 was a randomized, placebo-controlled registrational trial of trilaciclib in colorectal cancer (“CRC”). CRC is a large indication commonly treated with 5-FU-based chemotherapy. We have extensive preclinical research demonstrating myeloprotection in 5-FU-based regimens with trilaciclib. PRESERVE 1 evaluated trilaciclib administered in combination with the triplet therapy FOLFOXIRI (5-FU, folinic acid, oxaliplatin and irinotecan) and bevacizumab, which is the most efficacious chemotherapy regimen for most 1L CRC tumors but also highly myelosuppressive compared to doublet therapies including FOLFOX or FOLFIRI.

On February 13, 2023, we announced topline results from our pivotal Phase 3 PRESERVE 1 trial showing that the trial achieved its co-primary endpoints related to severe neutropenia with statistical significance, including clinically meaningful and statistically significant reductions in both occurrence of severe neutropenia during induction (placebo=20% vs. trilaciclib=1%; p<0.001) and mean duration of severe neutropenia in Cycles 1 through 4 (placebo=1.3 days vs. trilaciclib=0.1 days; p<0.001).

However, despite the achievement of the co-primary endpoints and other secondary measures of myeloprotection and tolerability, early anti-tumor efficacy data, including overall response rate (ORR), favor patients receiving placebo compared to trilaciclib (61% and 50% ORRs, respectively). Given the differential in these anti-tumor efficacy metrics and the low likelihood of achieving the progression-free survival (PFS) and overall survival (OS) endpoints, we have made the decision to discontinue PRESERVE 1. The Data Monitoring Committee (DMC) independently reached the same conclusion.

Other clinical trials of trilaciclib in combination with different chemotherapies in patients with extensive-stage small cell lung cancer and triple negative breast cancer did not demonstrate this adverse survival signal.

Four ongoing clinical trials

Trilaciclib (IV CDK4/6 inhibitor):

Phase 3 clinical trial in first line Triple Negative Breast Cancer (PRESERVE 2)

Building upon the robust OS benefit observed in the prior Phase 2 study, in April 2021, we have completed enrollment in PRESERVE 2, a pivotal Phase 3 trial of trilaciclib in patients receiving first- or second-line gemcitabine and carboplatin chemotherapy (“GC”) for locally advanced unresectable or mTNBC. Anti-tumor efficacy and myeloprotection endpoints are being assessed in this study. The Phase 3 trial is being conducted across multiple sites in the United States and Europe. We have enrolled patients who previously received checkpoint inhibitors in the neo/adjuvant setting into the trial, to ensure that we develop clinical experience in this patient population. The primary endpoint is to evaluate the effect of trilaciclib on overall survival (OS) compared with placebo in patients receiving first-line GC. Key secondary endpoints include assessment of the effect of trilaciclib on patients’ quality of life compared with placebo. Enrollment in this trial is complete at 187 1L patients. The interim Overall Survival (OS) analysis at 70% of events is expected in the first half of 2024.

Phase 2 clinical trial in combination with the antibody-drug conjugate, Trodelvy® (Sacituzumab Govitecan-Hziy)

We initiated this ongoing Phase 2, single arm, open-label study of trilaciclib administered prior to the antibody-drug conjugate (ADC), Trodelvy® (sacituzumab govitecan-hziy) in patients with unresectable locally advanced or mTNBC in the fourth quarter of 2021. Anti-tumor efficacy and myeloprotective endpoints are being assessed. The primary objective is to evaluate the anti-tumor efficacy of trilaciclib when administered prior to sacituzumab govitecan-hziy as measured by progression-free survival (PFS). Secondary endpoints include evaluation of the anti-tumor efficacy as measured by the objective response rate (ORR), duration of objective response (DOR), clinical benefit rate (CBR), overall survival (OS); and evaluation of the myeloprotective effects of trilaciclib.

In November 2022, we provided encouraging initial data this Phase 2 trial. Initial data demonstrate the potential for an on-target effect of trilaciclib to meaningfully reduce the rates of adverse events associated with sacituzumab govitecan-hziy, including myelosuppression, diarrhea, and potentially alopecia (due to the presence of CDK4/6-expressing cells in the intestinal crypt and hair follicles) compared to the previously published sacituzumab govitecan-hziy single agent safety profile. We expect to release a more comprehensive data set including safety and initial efficacy results, including outcome by tumor PD-L1 status, in the second quarter of 2023.

Phase 2 clinical trial to confirm the anti-tumor mechanism of action (MOA) in the tumor microenvironment

We initiated this trial in the fourth quarter of 2021. The trial is a Phase 2 multicenter, single arm, open-label study of trilaciclib in patients with early-stage neoadjuvant TNBC designed to further investigate the role of trilaciclib in modulating the anti-tumor immune response. Pathologic complete response endpoints are also being evaluated in this trial and are expected to be available in the second quarter of 2023. The primary objective is to evaluate the immune-based mechanism of action (“MOA”) of trilaciclib after a single-dose as measured by the change in the ratio of CD8+ tumor-infiltrating lymphocytes (TILs) to regulatory T cells (Tregs) in the tumor microenvironment. Secondary and exploratory endpoints include the assessment of pathologic complete response (pCR) at the time of definitive surgery, and safety of the combination of trilaciclib with neoadjuvant chemotherapy regimen; exploratory endpoints include assessment of the immune response, and identification of molecular and cellular biomarkers in tumor or blood samples that may be indicative of clinical response/resistance, pharmacodynamic activity, and/or the mechanism of action of trilaciclib.

In December 2022, we reported data at the annual San Antonio Breast Cancer Symposium (SABCS) from the first 24 patients, which show favorable alterations in the tumor microenvironment from a single dose of trilaciclib monotherapy (240 mg/m²) as measured by increases in the proportions of CD8+ T cells compared to T regulatory cells (Tregs) in patients with early-stage TNBC. The improvement of the ratio of CD8+ T cells to Tregs may enhance the overall anti-tumor immune response and support the trends we observed in preclinical studies and in our Phase 2 trial in TNBC. No trilaciclib related serious adverse events have been reported. We anticipate the pathologic complete response (pCR) results, including outcome by tumor PD-L1 status, to be available in the second quarter of 2023.

Phase 2 clinical trial in first line Bladder Cancer (PRESERVE 3)

We initiated PRESERVE 3, a Phase 2, randomized, open-label study of first-line platinum-based chemotherapy and maintenance therapy with the immune checkpoint inhibitor, avelumab, administered alone, or in combination with trilaciclib, in patients with untreated, locally advanced or mUC, in the second quarter of 2021. The primary endpoint is to evaluate the anti-tumor efficacy of trilaciclib when combined with platinum-based chemotherapy and the checkpoint inhibitor avelumab maintenance therapy as measured by progression-free survival (PFS) during the overall study. Key secondary endpoints include evaluation of the anti-tumor efficacy of trilaciclib as measured by the ORR, DOR, PFS in the maintenance period, OS and other metrics. We have entered into a clinical trial collaboration with the alliance between Merck KGaA, Darmstadt, Germany and Pfizer whereby the alliance will contribute clinical supply of avelumab to this G1-sponsored and funded trial in mUC.

In January 2023, we provided an initial update on PRESERVE 3. The confirmed ORR per RECIST v1.1 was comparable between arms with ORR being 40.0% (n=18/45) and 46.7% (n=21/45) among evaluable patients in the trilaciclib and control arms, respectively. We believe that longer-term follow-up is required to characterize additional anti-tumor endpoints including median duration of response and PFS. Though early, the safety and tolerability profile of trilaciclib administered prior to chemotherapy is generally consistent with that expected in patients treated with gemcitabine plus cisplatin/carboplatin and avelumab maintenance for previously untreated advanced or mUC. The data monitoring committee reviews the safety of trilaciclib on an ongoing basis and recommended that the study continue as planned. Additional safety and efficacy data, including the primary endpoint of PFS, are anticipated mid-2023.

Investigator Sponsored Studies (ISS) Program

Trilaciclib (IV CDK4/6 inhibitor)

An Investigator Sponsored Study (“ISS”) is a study that is developed and conducted by a qualified physician external to G1 Therapeutics who assumes full responsibility for the conduct of the study. An ISS can take a variety of forms including clinical and nonclinical studies that may be interventional or observational. We support studies that align with our areas of scientific interest.

In the fourth quarter of 2022, the Company announced that we were supporting a new Phase 2 ISS of trilaciclib and lurbinectedin in patients with ES-SCLC. This is a prospective, non-randomized, single-arm Phase 2 study, to evaluate trilaciclib administered intravenously prior to lurbinectedin in approximately 30 subjects with platinum refractory ES-SCLC. The primary endpoint is the rate of grade 4 neutropenia in any cycle. Secondary endpoints include mean duration (days) of grade 4 neutropenia in cycle 1, overall survival (OS), progression-free survival (PFS), overall rate of response (ORR), quality of life assessments, and the use of secondary/reactive supportive measures including G-CSF administration.

Trilaciclib: regulatory status

COSELA for injection was approved by the FDA in February 2021 to decrease the incidence of chemotherapy-induced myelosuppression in adult patients when administered prior to a platinum/etoposide-containing regimen or topotecan-containing regimen for extensive-stage small cell lung cancer (ES-SCLC). The approval was based on three small cell lung cancer (“SCLC”) trials demonstrating that trilaciclib, when added to standard of care chemotherapy or chemotherapy/checkpoint inhibitor regimens, mitigates clinically significant chemotherapy-induced myelosuppression. Discussions with European regulatory authorities have indicated existing data is sufficient to support an MAA to the EMA for trilaciclib for myeloprotection in ES-SCLC.

We received Breakthrough Therapy Designation from the FDA in 2019 based on positive myeloprotection data in small cell lung cancer patients from three randomized Phase 2 clinical trials. As is common with Breakthrough-designated products that receive priority review, we will conduct certain post-marketing activities, including in vitro drug-drug interaction and metabolism studies, and a clinical trial to assess the impact of trilaciclib on disease progression or survival in patients with ES-SCLC with chemotherapy-induced myelosuppression treated with a platinum/etoposide-containing or topotecan-containing regimen with at least a two year follow up. We are in the process of site selection for the post-approval clinical trial and anticipate site activation and first patient enrollment in the first half of 2023.

In 2021, the FDA granted Fast Track designation to trilaciclib for use in combination with chemotherapy for the treatment of locally advanced or mTNBC. Fast track is a process designed to facilitate the development and expedite the review of drugs to treat serious conditions and fill unmet medical needs. The purpose is to get important new drugs to the patient earlier. A drug that receives Fast Track designation may be eligible for more frequent engagements with the FDA to discuss a drug's clinical development plan, eligibility for Accelerated Approval and Priority Review, and Rolling Review in which completed sections of a New Drug Application (NDA) can be submitted for FDA review on a rolling basis rather than waiting until all sections of the NDA are completed before the entire application can be reviewed.

We continue to engage in research and clinical development of trilaciclib in order seek regulatory approval to market additional indications in multiple tumor types and treatment combinations, including breast cancer and bladder cancer.

Lerociclib

Lerociclib is a differentiated clinical-stage oral CDK4/6 inhibitor being developed for use in combination with other targeted therapies in multiple oncology indications. In 2020, we entered into separate, exclusive agreements with EQRx, Inc. (rights for U.S., Europe, Japan and all markets outside Asia-Pacific) and Genor Biopharma Co. Inc. (rights for Asia-Pacific, excluding Japan) for the development and commercialization of lerociclib in all indications. Combined, these agreements provide \$26.0 million in upfront payments, along with sales-based royalties, and the opportunity for up to \$330.0 million in potential milestone payments. EQRx, Inc. and Genor Biopharma Co. Inc. are responsible for all costs related to the development and commercialization of lerociclib in their respective territories.

Rintodestrant

Rintodestrant is an oral SERD for use as a monotherapy and in combination with CDK4/6 inhibitors, initially Ibrance® (palbociclib), for the treatment of ER+, HER2- breast cancer. After completing the evaluation of our rintodestrant partnering options and recent data in the highly competitive oral SERD space, we made the strategic decision to discontinue the program. We reverted the rights back to the originator (University of Illinois Chicago) during the third quarter of 2022; there are no additional financial obligations due to the originator resulting from the reversion.

CDK2 Inhibitor

In 2020, we entered into a global license agreement with Incyclix Bio, LLC ("Incyclix"), formerly ARC Therapeutics, LLC, for the development and commercialization of an internally discovered cyclin-dependent kinase 2 ("CDK2") inhibitor for all human and veterinary uses. Incyclix is currently granted an exclusive, royalty-bearing, license with the right to grant sublicenses to one of our solely owned patent families.

Our Business Strategy

Our goal is to improve the lives of those impacted by cancer through the ongoing development and expansion of trilaciclib. Our strategy includes the following key components:

- **Establish COSELA as the standard of care for ES-SCLC in the United States.** COSELA (trilaciclib) for Injection was approved by the FDA in February 2021 to decrease the incidence of chemotherapy-induced myelosuppression in adult patients when administered prior to a platinum/etoposide-containing regimen or topotecan-containing regimen for extensive-stage small cell lung cancer (ES-SCLC).
- **Maximize long-term value of trilaciclib by executing our robust development plan across multiple indications and treatment settings.** We believe that, because of its mechanism of action and unique attributes, including rapid onset from IV administration, potent and selective CDK4 and CDK6 inhibition, and short half life trilaciclib has the potential to be used to treat patients receiving myelosuppressive cytotoxic therapies like chemotherapy and to meaningfully improve anti-tumor efficacy across multiple tumor types and when administered in various treatment combinations.
- **Manage capital efficiently to fully fund operations.** We intend to efficiently execute our capital management strategies to ensure our ability to fund our operations, including the commercialization of COSELA in ES-SCLC, and our ongoing and future clinical programs to develop trilaciclib in additional cancer indications.

Commercialization

In February 2021, the U.S. Food and Drug Administration ("FDA") approved COSELA (trilaciclib) to decrease the incidence of chemotherapy-induced myelosuppression in adult patients when administered prior to a platinum/etoposide-containing regimen or topotecan-containing regimen for extensive-stage small cell lung cancer (ES-SCLC). In June 2020, we entered into a three-year co-promotion agreement for COSELA in the United States and Puerto Rico with Boehringer Ingelheim Pharmaceuticals, Inc. ("BI"). In December 2021, G1 and BI mutually agreed to end the co-promotion agreement for COSELA, effective March 2022. At that time, we announced that we would hire and deploy a team of G1 oncology sales representatives to accelerate sales activities and help maximize the adoption of COSELA. As of February 21, 2022, all sales representatives have been hired, trained and deployed. We are now managing and executing all commercial activities in-house, including sales, marketing, market access and clinical nurse educator functions, as well as product distribution. The G1 to One program serves as a patient hub and provides patient and healthcare provider services.

We plan to globally commercialize our product candidates through the establishment of collaboration agreements with global and/or regional pharmaceutical companies to leverage our and their development and commercialization infrastructures and capabilities, enabling us to cost-effectively maximize the global commercial opportunities of our product candidates.

Manufacturing

We do not own or operate, and currently have no plans to establish, any manufacturing facilities. We rely, and expect to continue to rely, on third parties (contract manufacturing organizations, or CMOs) for the manufacture of our product candidates. To date, we have obtained drug substances and drug products for our preclinical studies, clinical trials and commercial product from multiple third-party manufacturers. Redundant suppliers are in place for some of our drug substances and drug products. As development proceeds for our products, we will evaluate qualifying additional redundant manufacturers for drug substances and drug products.

Although we are reliant on third parties to manufacture our products, we have personnel with extensive manufacturing experience to oversee the relationships with our CMOs. CMOs are subject to extensive governmental regulations and we depend on them to manufacture our products in accordance with current good manufacturing practices, or cGMP. We have an established quality assurance program to ensure that the CMOs involved in the manufacture of products do so in accordance with cGMP and other applicable U.S. and foreign regulations. We believe that our current CMO network complies with such regulations.

Competition

The development and commercialization of new drug therapies is highly competitive. We will face competition with respect to all therapeutics we may develop or commercialize in the future from pharmaceutical and biotechnology companies worldwide. Any drug candidates we successfully develop and commercialize will compete with currently marketed drugs and therapies used for treatment of the same indications, and potentially with products currently in development for the same indications. Many of the entities marketing or developing potentially competing products have significantly greater financial resources and expertise than we do in research and development, manufacturing, preclinical testing, conducting clinical trials, obtaining regulatory approvals and marketing. We believe the key competitive factors affecting the success of any approved product will be its efficacy, safety profile, price, convenience of administration, and level of promotional activity. Accordingly, our commercial opportunity will be reduced or eliminated if our competitors develop and commercialize products that are more effective, have fewer side effects, are more convenient or are less expensive than any products that we may develop.

COSELA is the first approved therapy designed and optimized to help protect HSPCs and immune system function from damage by chemotherapy. We believe administering trilaciclib with the current standard of care may minimize chemotherapy-induced myelosuppression, including the following adverse side effects: fatigue due to anemia; infections due to neutropenia; and bleeding due to thrombocytopenia. Currently, these adverse side effects often require costly rescue interventions such as hospitalizations, transfusions, antibiotic usage and/or treatment with growth factor support. Trilaciclib may reduce the need to administer the existing rescue growth factor support treatments, including Neulasta® (pegfilgrastim), Neupogen® (filgrastim), Procrit® (epoetin alpha), and Aranesp® (darbepoetin alfa) as well as biosimilars of these products. In addition, trilaciclib may compete with multiple approved drugs or drugs that may be approved in the future, such as plinabulin which is in development for chemotherapy induced-neutropenia and ALRN-6924 which is in development for chemotherapy-induced myelosuppression.

Intellectual property

Our commercial success depends in part on our ability to obtain and maintain proprietary protection in jurisdictions where we seek to commercialize our FDA approved CDK4/6 inhibitor trilaciclib (COSELA). Our commercial success also depends in part on our ability to obtain and maintain proprietary protection in the jurisdictions where our licensees seek to commercialize our proprietary CDK inhibitors, including clinical candidates trilaciclib and lerociclib. We have secured patent protection to the composition of matter for trilaciclib and lerociclib in a number of jurisdictions, including for example, the United States, Europe, China, Hong Kong, Macau, Japan, Korea, Singapore, Australia, Canada, Mexico, India, Israel, Russia, and Brazil. We have secured patent protection to the use of trilaciclib or lerociclib for the treatment of certain cancers, including in the United States, Europe, China, Hong Kong, Macau, Japan, and Canada. We also, where we believe appropriate, seek protection on processes for the production of our CDK4/6 inhibitors, formulations, additional compositions, combinations of our product candidates with other active agents and dosing schedules and regimens. Our success also depends on our ability to operate without infringing on the proprietary rights of others and to prevent others from infringing our proprietary rights. Our policy is to seek to protect our proprietary position by, among other methods, filing U.S. and foreign patent applications covering our proprietary technology, inventions, and improvements that are important to the development and implementation of our business. In addition, we plan to seek patent term adjustments, restorations, and/or patent term extensions where applicable in the United States and other jurisdictions. For example, we have filed for patent term extensions with the United States Patent and Trademark Office seeking the extension of term for patents encompassing trilaciclib. We also rely on trade secrets, know-how, continuing technological innovation and potential in-licensing opportunities to develop and maintain our proprietary position. Additionally, we expect to benefit, where appropriate, from statutory frameworks in the United States, Europe, and other countries that provide a period of clinical data exclusivity to compensate for the time required for regulatory approval of our drug products. See also the “Government Regulation and Product Approval” section below.

We are the sole owner or exclusive licensee of all of our patents and currently filed patent applications that cover trilaciclib and lerociclib. We have the exclusive right to prosecute these patent families in our sole discretion, and, where we have out-licensed patents and patent applications, our licensees have the right to review and comment on all material patent filings, and their review and comments will be considered by us in good faith. Our intellectual property strategy includes patenting our CDK4/6 inhibitors, their uses, and methods of manufacturing. We have obtained more than twenty composition-of-matter patents in the United States on a number of our CDK4/6 inhibitors, including claims that cover trilaciclib and lerociclib, and we continue to seek composition-of-matter patents on additional CDK inhibitors both in the United States and throughout the world. In addition, we have obtained more than eighteen patents in the United States on methods of treatment using a number of our CDK4/6 inhibitors, including claims that cover methods of using trilaciclib and lerociclib. We continue to seek additional patents for our key CDK4/6 inhibitors and their uses in key therapeutic areas.

As of December 31, 2022, we have listed 10 U.S. granted patents in the U.S. FDA’s Orange Book for our U.S. Food and Drug Administration approved drug trilaciclib (COSELA), with an additional patent granted pending listing. In addition, on April 8, 2021, we filed a request for patent term extension pursuant to 35 U.S.C. § 156 on two of these listed patents (U.S. 8,598,186 and U.S. 9,487,530). We ultimately intend to elect one patent for extension. To the extent U.S. 8,598,186 is elected, the term is expected to be extended to December 30, 2034. To the extent U.S. 9,487,530 is elected, the term is expected to be extended to February 12, 2035.

We continually assess and refine our intellectual property strategies as we develop new technologies and product candidates. We plan to file additional patent applications based on our intellectual property strategies where appropriate, including where we seek to adapt to competition or to improve business opportunities. Further, we plan to file patent applications, as we consider appropriate under the circumstances, to protect new technologies that we develop. Our patent filing strategy typically includes seeking patent protection in the United States, the European Union, and in additional countries where we believe such protection is likely to be useful, including one or more of Australia, Brazil, Canada, China, Hong Kong, India, Israel, Japan, Mexico, Macau, Russia, Singapore, and South Korea.

We are party to four license agreements relating to our CDK inhibitor technology. On May 22, 2020, we entered into a license agreement with Incyclix Bio, LLC ("Incyclix"), formerly ARC Therapeutics, LLC, where we out-licensed to Incyclix a portfolio of CDK2 inhibitors for development and commercialization. On June 15, 2020, we entered into a license agreement with Genor Biopharma Co. Inc. ("Genor") for the development and commercialization of our CDK4/6 inhibitor lerociclib in the Genor Territory (as defined below). On July 22, 2020, we entered into a license agreement with EQRx, Inc. ("EQRx") for the development and commercialization of lerociclib in the EQRx Territory (as defined below). On August 3, 2020, we entered into a license agreement with Nanjing Simcere Dongyuan Pharmaceutical Co., Ltd. ("Simcere") for the development and commercialization of our CDK4/6 inhibitor trilaciclib in the Simcere Territory (as defined below). Each of these license agreements is described below.

Our owned and in-licensed patent estate as of December 31, 2022, on a worldwide basis, includes over 390 granted or pending patent applications in more than 30 patent families with more than 46 granted U.S. patents. The term of individual patents depends upon the laws of the countries in which they are obtained. In the countries in which we currently file, the patent term is 20 years from the earliest date of filing of a non-provisional patent application which serves as a priority application. However, the term of a U.S. patent may be extended to compensate for the time required to obtain regulatory approval to sell a drug (a patent term extension) or by delays encountered during patent prosecution that are caused by the United States Patent and Trademark Office (USPTO) (referred to as patent term adjustment). For example, the Hatch-Waxman Act permits a patent term extension for FDA-approved drugs of up to five years beyond the expiration of the patent. The length of the patent term extension is related to the length of time the drug is under regulatory review and diligence during the review process. Patent term extensions cannot extend the remaining term of a patent beyond a total of 14 years from the date of product approval, and only one patent covering an approved drug or its method of use may be extended. A similar kind of patent extension, referred to as a Supplementary Protection Certificate, is available in Europe. Legal frameworks are also available in certain other jurisdictions to extend the term of a patent. We currently intend to seek patent term extensions on any of our issued patents in any jurisdiction where we have a qualifying patent and the extension is available; however, there is no guarantee that the applicable regulatory authorities, including the FDA and the USPTO in the United States, will agree with our assessment of whether such extensions should be granted, and even if granted, the length of such extensions. Further, even if our patent is extended, the patent, including the extended portion of the patent, may be held invalid or unenforceable by a court of final jurisdiction in the United States or a foreign country.

Our current issued patents covering the composition-of-matter for trilaciclib and lerociclib will expire in 2031, exclusive of any patent term extension. As described above, we have filed a request for patent term extension under 35 U.S.C. § 156 for a term extension of U.S. 8,598,186, which claims the composition of matter of trilaciclib, which, if granted, would extend the term of this patent to December 30, 2034. Our current issued patents covering methods of use of trilaciclib and lerociclib will expire in 2034 to 2039. As described above, we have filed a request for patent term extension under 35 U.S.C. § 156 for a term extension of U.S. 9,487,530, which claims the use of trilaciclib to reduce the effect of chemotherapy on healthy cells in a subject being treated for, among other things, small cell lung cancer, which, if granted, would extend the term of this patent to February 12, 2035. Our pending applications on additional methods of use of trilaciclib and lerociclib, should they issue, will expire on dates ranging from 2034 to 2043. We plan to file additional applications on aspects of our innovations that may have patent terms that extend beyond these dates.

Any of our patents, including patents that we may rely on to protect our market for approved drugs, may be held invalid or unenforceable by a court of final jurisdiction. Alternatively, we may decide that it is in our interest to settle a litigation in a manner that affects the term or enforceability of our patent. Changes in either the patent laws or in interpretations of patent laws in the United States and other countries may diminish our ability to protect our inventions and enforce our intellectual property rights. Accordingly, we cannot predict the breadth or enforceability of claims that have been or may be granted in our patents or in third-party patents. The biotechnology and pharmaceutical industries are characterized by extensive litigation regarding patents and other intellectual property rights. Our ability to obtain and maintain our proprietary position for our CDK4/6 inhibitors will depend on our success in enforcing the claims that have been granted or may grant. We do not know whether any of the pending patent applications that we have filed or may file or license from third parties will result in the issuance of any additional patents. The issued patents that we own or may receive in the future may be challenged, invalidated, or circumvented, and the rights granted under any issued patents may not provide us with sufficient protection or competitive advantages against competitors with similar technology. Furthermore, our competitors may be able to independently develop and commercialize drugs with similar mechanisms of action and duplicate our methods of treatments or strategies without infringing our patents. Because of the extensive time required for clinical development and regulatory review of a drug we may develop, it is possible that, before any of our drugs can be commercialized, any related patent may expire or remain in force for only a short period following commercialization, thereby reducing any advantage of any such patent.

Trilaciclib and lerociclib patent coverage

We own seven issued U.S. Patents (U.S. 8,598,186; U.S. 8,598,197; U.S. 9,957,276; U.S. 10,189,849; U.S. 10,189,850; U.S. 10,927,120; and U.S. 11,040,042) covering the trilaciclib compositions-of-matter and its pharmaceutical composition. We have listed each of these patents in the Orange Book listing for COSELA. We also own six issued U.S. Patents (U.S. 8,598,186; U.S. 8,598,197; U.S. 9,481,691; U.S. 9,957,276; U.S. 10,189,851; and U.S. 10,696,682) covering the lerociclib composition-of-matter and pharmaceutical composition. We own corresponding issued patents covering trilaciclib and lerociclib and their pharmaceutical compositions in Europe, Canada, Japan, Mexico, China, Macau, Australia, Russia, South Korea, India, Israel, Hong Kong, Brazil, and Singapore. The expected year of expiration for these composition-of-matter patents, where issued, valid and enforceable, is 2031, without regard to any extensions, adjustments, or restorations of term that may be available under national law.

In addition, we own three issued U.S. Patents (U.S. 9,487,530; U.S. 10,085,992; and 10,966,984) covering the use of trilaciclib to reduce the effect of chemotherapy on healthy cells in a subject being treated for cancer, each of which has been listed in the Orange Book listing for COSELA. This patent family covers, for example, SCLC treatment protocols involving chemotherapeutic agents carboplatin, etoposide, and/or topotecan along with trilaciclib for protection of healthy replicating cells like hematopoietic stem and progenitor cells, and the use of trilaciclib to treat cancer in combination with a chemotherapeutic agent. The patent filing also covers chemoprotection of healthy replicating cells with trilaciclib during the treatment of CDK4/6 independent cancer including triple negative breast cancer. Patents from this family have issued in Europe, China, Hong Kong, Macau, Canada, and Japan. A patent application from this family is pending in Europe, Japan, and the United States. The expected year of expiration for this patent family, where issued, valid and enforceable, is 2034, without regard to any extensions, adjustments, or restorations of term that may be available under national law.

We have filed applications in the United States, in the European Patent Office (EPO), Canada, China, Hong Kong, Australia, Brazil, Israel, Japan, South Korea, Mexico, New Zealand, Russia, and the regional patent office of the Eurasian Patent Organization (EAPO) and the African Regional Intellectual Property Organization (ARIPO) that cover the administration of trilaciclib in combination with a checkpoint inhibitor. Patents have been granted or allowed in the United States, Russia, EAPO, and New Zealand. The granted U.S. Patent (U.S. 11,529,352) has been submitted for listing in the Orange Book listing for COSELA. This granted patent received 595 days of patent term adjustment, and will expire July 23, 2039. The expected year of expiration for other members of this patent family, where issued, valid and enforceable, is 2037, without regard to any extensions, adjustments, or restorations of term that may be available under national law.

We own a patent family that is directed to the use of our CDK4/6 inhibitors to treat RB-positive tumors. The family includes four issued U.S. Patents (U.S. 9,527,857; U.S. 10,076,523; U.S. 10,434,104; and U.S. 10,925,878) and one allowed US patent application. The '857 patent covers the use of lerociclib, to treat RB-positive breast cancer, colon cancer, ovarian cancer, NSCL cancer, prostate cancer, and glioblastoma, the '523 patent covers the use of lerociclib to treat Rb-positive breast cancer continuously for 28 days or more, and the '104 patent covers the use of lerociclib to treat Rb-positive breast cancer in combination with goserelin. The '878 patent is directed to the use of trilaciclib in combination with a chemotherapeutic agent to treat RB-positive tumors. The allowed U.S. patent application covers the treatment of NSCLC or breast cancer by administering lerociclib at least once a day for 24 or more continuous days. Patents in this family have also issued in China, Hong Kong, Macau, Canada, and Japan, and a patent application has been allowed in the EPO. The expected year of expiration for this patent family, where issued, valid and enforceable, is 2034, without regard to any extensions, adjustments, or restorations of term that may be available under national law.

We own a patent family directed to the use of trilaciclib or lerociclib as an anti-neoplastic agent against certain hematological cancers. This family includes one issued U.S. Patent (10,709,711) and one pending US patent application. This patent filing is pending in Europe, allowed in Canada, and has issued in Japan and China. The expected year of expiration for this patent family, where issued, valid and enforceable, is 2034, without regard to any extensions, adjustments, or restorations of term that may be available under national law.

We have filed patent applications in the United States, Europe, and China that covers the administration of lerociclib in combination with an EGFR inhibitor, for example osimertinib, for the treatment of EGFR-mutant cancers, most notably NSCLC. One application has granted in the United States (U.S. 11,395,821). The expected year of expiration for this patent family, where issued, valid and enforceable, is 2038, without regard to any extensions, adjustments, or restorations of term that may be available under national law.

We own a patent family directed to the use of lerociclib in combination with a Bruton's tyrosine kinase inhibitor or other selected active agents to treat RB-positive tumors. The family includes two granted U.S. patents (U.S. 10,231,969 and U.S. 11,446,295), a pending U.S. patent application and a pending European patent application. The expected year of expiration for this patent family, where issued, valid and enforceable, is 2035, without regard to any extensions, adjustments, or restorations of term that may be available under national law.

We have filed patent applications in the United States, European Patent Office (EPO), Canada, China, Hong Kong, Australia, Brazil, Israel, Japan, South Korea, Mexico, New Zealand, Russia, and the regional patent office of the Eurasian Patent Organization (EAPO) and the African Regional Intellectual Property Organization (ARIPO) that cover morphic forms of lerociclib. Patents have been granted in the United States (U.S. 11,261,193), Australia, and Mexico, and have been allowed in the EAPO and ARIPO. The expected year of expiration for this patent family, where issued, valid and enforceable, is 2038, without regard to any extensions, adjustments, or restorations of term that may be available under national law.

We have filed patent applications in the United States, European Patent Office (EPO), Brazil, Canada, China, Colombia, Hong Kong, Egypt, Australia, Brazil, Israel, Japan, South Korea, Mexico, New Zealand, Russia, Indonesia, Sri Lanka, Malaysia, Nigeria, Peru, Philippines, Singapore, Thailand, Vietnam, South Africa, and the regional patent office of the Eurasian Patent Organization (EAPO) and the African Regional Intellectual Property Organization (ARIPO) that cover dosage regimes of lerociclib. Patents have been granted in the United States (U.S. 11,357,779), and ARIPO. The expected year of expiration for this patent family, where issued, valid and enforceable, is 2039, without regard to any extensions, adjustments, or restorations of term that may be available under national law.

We own a patent family directed to certain compositions of trilaciclib. This family has issued in the United States (10,988,479) and is pending in the United States, European Patent Office (EPO), China, Hong Kong, and Taiwan. The expected year of expiration for this patent family, where issued, valid and enforceable, is 2040, without regard to any extensions, adjustments, or restorations of term that may be available under national law.

We own a patent family directed to the use of our CDK4/6 inhibitors in combination with the inhibitor of microtubule function eribulin for the treatment of cancers. This family is pending in the United States, Europe, China, and Hong Kong. The expected year of expiration for this patent family, where issued, valid and enforceable, is 2039, without regard to any extensions, adjustments, or restorations of term that may be available under national law.

We own a patent family directed to the selection of patients for administration of trilaciclib based on tumor type, chemotherapeutic regimen, and immune factors. This family has been filed in the United States, China, Hong Kong, Taiwan, Japan, Canada, Australia, the European Patent Office (EPO), and Argentina. The expected year of expiration for this patent family, where issued, valid and enforceable, is 2040, without regard to any extensions, adjustments, or restorations of term that may be available under national law.

We also own additional patent families directed to the use of our CDK4/6 inhibitors in combination with various other therapeutic agents for the treatment of cancers harboring specific mutations. The expected year of expiration for these patent families, where issued, valid, and enforceable, is between 2039 and 2040, without regard to any extensions, adjustments, or restorations of term that may be available under national law.

We own seven U.S. patent families directed to the use of our CDK4/6 inhibitors in particular clinical applications. The expected year of expiration for these patent families, where issued, valid, and enforceable, is between 2041 and 2043, without regard to any extensions, adjustments, or restorations of term that may be available under national law.

Exclusive license to Nanjing Simcere Dongyuan Pharmaceutical Co., LTD. ("Simcere") for trilaciclib

On August 3, 2020, we entered into a license agreement with Nanjing Simcere Dongyuan Pharmaceutical Co., LTD. ("Simcere License") for the development and commercialization of trilaciclib for any indication in humans through parenteral delivery, including intravenous delivery, in China, Hong Kong, Macau, and Taiwan ("Simcere Territory"). Pursuant to the Simcere License, Simcere has been granted an exclusive, royalty-bearing, non-transferable license, with the right to grant sublicenses to thirteen of our solely-owned patent families in the Simcere Territory. We maintain the exclusive right to prosecute these patent families with consideration of Simcere's comments and suggestions. Where patent applications in the Simcere Territory cover both trilaciclib and lerociclib they are licensed to both Simcere and Genor.

Under the Simcere License, G1 and Simcere share all patent prosecution costs incurred in the Simcere Territory, except that we are solely responsible for costs associated with any adversarial patent prosecution proceeding in the Simcere Territory, including oppositions, reexaminations, invalidations, revocations, nullifications, or cancellation proceedings related to our licensed patent.

Under the Simcere License, we have the sole right in its sole discretion to bring and control any legal action to enforce our licensed patent families against any infringement action in the Simcere Territory, except in the case of infringement relating to i) a G1 patent containing a claim to the composition-of-matter of trilaciclib or ii) a G1 patent that contains claims covering only trilaciclib that arises as a result of making, using, offering to sell, selling or importing of trilaciclib by a third party, in which case we have the first right, but not the obligation, to bring and control any infringement action at our own expense, subject to the consideration of Simcere's reasonable and timely comments. To the extent we decline to bring an action against an infringer under the above-described conditions, Simcere has the right, but not the obligation, to bring an infringement action at its own expense.

Pursuant to the Simcere License, Simcere agreed to pay us a non-refundable, upfront cash payment of \$14.0 million with the potential to pay an additional \$156.0 million upon reaching certain development and commercial milestones. In addition, Simcere will pay us tiered low double-digit royalties on annual net sales of trilaciclib in the Simcere Territory. On February 9, 2023, Simcere and G1 announced the issuance of the first prescription for COSELA® (trilaciclib) in China. The upfront payment of \$14.0 million (less applicable withholding taxes of \$1.4 million) was received in September 2020. In return, we furnished to Simcere the related technology and know-how that is necessary to develop, seek regulatory approval for, and commercialize trilaciclib in the Simcere Territory. Simcere will be responsible for all development and commercialization costs in its territory and may be able to participate in global clinical trials as agreed upon by the companies.

On July 13, 2022, the NMPA conditionally approved COSELA (trilaciclib hydrochloride for injection) for marketing in China. As a result of receiving approval in China, Simcere paid us a \$13.0 million milestone payment (less applicable withholding taxes of \$1.3 million) in the third quarter of 2022. For the completion of manufacturing technology transfer in the third quarter of 2022, Simcere paid us a \$1.0 million milestone payment (less applicable withholding taxes of \$0.1 million) in October 2022. For the twelve months ended December 31, 2022, we recognized \$14.0 million of revenue related to development milestones.

Exclusive license to EQRx, Inc. for lerociclib

On July 22, 2020, we entered into a license agreement with EQRx, Inc. (the "EQRx License") for the development and commercialization of lerociclib using an oral dosage form to treat any indication in humans. The EQRx, licensed territories are all of the countries and regions of the world, and their territories and possessions, excluding the Genor territory (the "EQRx Territory"). Pursuant to the EQRx License, EQRx has been granted an exclusive, royalty-bearing, non-transferable license, with the right to grant sublicenses, to twelve of our solely-owned patent families in the EQRx Territory. We maintain the exclusive right to prosecute these patent families in the EQRx Territory, and EQRx has the right to review and comment on all material patent filings, with the review and comment to be considered by us in good faith.

Under the EQRx License, G1 and EQRx share all patent prosecution costs incurred in the EQRx Territory, except that we are solely responsible for costs associated with any adversarial patent prosecution proceeding in the EQRx Territory, including oppositions, reexaminations, invalidations, revocations, nullifications, interferences, or cancellation proceedings related to our licensed patent families by a third party. We have the sole right in our sole discretion to bring and control any legal action to enforce our licensed patent families against any infringement action in the EQRx Territory, except in the case of infringement relating to a G1 patent that contains claims covering only lerociclib that arises as a result of making, using, offering to sell, selling or importing of lerociclib by a third party, in which case we have the first right, but not the obligation, to bring and control any infringement action at our own expense, subject to the consideration of EQRx's reasonable and timely comments. To the extent we decline to bring an action against an infringer under the above-described conditions, EQRx has the right, but not the obligation, to bring an infringement action at its own expense.

Pursuant to the license agreement, EQRx agreed to pay us a non-refundable, upfront cash payment of \$20.0 million with the potential to pay an additional \$290.0 million upon reaching certain development and commercial milestones. In addition, EQRx will pay us tiered royalties ranging from mid-single digits to mid-teens based on annual net sales of lerociclib in the EQRx Territory. The upfront cash payment was received in August 2020. In September 2020, we transferred to EQRx the related technology and know-how that is necessary to develop, seek regulatory approval for, and commercialize lerociclib in the EQRx Territory. EQRx will be responsible for the development of the product in the EQRx Territory. We will continue until completion, as the clinical trial sponsor, its two primary clinical trials at EQRx's sole cost and expense. EQRx agreed to reimburse us for all of its out-of-pocket costs incurred after the effective date of the license agreement in connection with these clinical trials. We will invoice EQRx within 30 days following the end of each quarter, and EQRx will pay within 30 days after its receipt of such invoice. For the twelve months ended December 31, 2022, we did not recognize any revenue related to development milestones.

Exclusive license to Genor Biopharma Co. Inc. ("Genor") for lerociclib

On June 15, 2020, we entered into a license agreement with Genor Biopharma Co. Inc. ("Genor License") for the development and commercialization of lerociclib using an oral dosage form to treat any indication in humans. The Genor licensed territories are in Australia, Bangladesh, China, Hong Kong, India, Indonesia, Macau, Malaysia, Myanmar, New Zealand, Pakistan, Philippines, Singapore, South Korea, Sri Lanka, Taiwan, Thailand, and Vietnam (the "Genor Territory"). Pursuant to the Genor License, Genor has been granted an exclusive, royalty-bearing, non-transferable license, with the right to grant sublicenses, to ten of our solely-owned patent families in the Genor Territory. We maintain the exclusive right to prosecute these patent families in the Genor Territory, and Genor has the right to review and comment on all material patent filings, such review and comment to be considered by us in good faith.

Under the Genor License, G1 and Genor share all patent prosecution costs incurred in the Genor Territory. We are solely responsible for costs associated with any adversarial patent prosecution proceeding in the Genor Territory, including oppositions, reexaminations, invalidations, revocations, nullifications, or cancellation proceedings related to our licensed patent families.

Under the Genor License, we have the sole right in our discretion to bring and control any legal action to enforce our licensed patent families against any infringement action in the Genor Territory, except in the case of i) a G1 patent containing a claim to the composition-of-matter of lerociclib or ii) a G1 patent that contains claims covering only lerociclib that arises as a result of making, using, offering to sell, selling or importing of lerociclib by a third party, in which case we have the first right, but not the obligation, to bring and control any infringement action at our own expense, subject to the consideration of Genor's reasonable and timely comments. To the extent we decline to bring an action against an infringer under the above-described conditions, Genor has the right, but not the obligation, to bring an infringement action at its own expense.

Pursuant to the license agreement, Genor agreed to pay us a non-refundable, upfront cash payment of \$6.0 million with the potential to pay an additional \$40.0 million upon reaching certain development and commercial milestones. In addition, Genor will pay us tiered royalties ranging from high single to low double-digits based on annual net sales of lerociclib in the Genor Territory. The upfront cash payment was received in July 2020. In September 2020, we transferred to Genor the related technology and know-how that is necessary to develop, seek regulatory approval for, and commercialize lerociclib in the Genor Territory. Genor will be responsible for the development of the product in the Genor Territory and will be responsible, at its sole cost, for obtaining supply of lerociclib to meet its development, regulatory approval, and commercialization obligations under the agreement. For the twelve months ended December 31, 2022, we did not recognize any revenue related to development milestones.

Exclusive license to Incyclix Bio, LLC

On May 22, 2020, we entered into a global license agreement with Incyclix Bio, LLC ("Incyclix"), formerly ARC Therapeutics, LLC for the development and commercialization of a CDK2 inhibitor for all human and veterinary uses. Pursuant to the Incyclix License, Incyclix is currently granted an exclusive, royalty-bearing, license with the right to grant sublicenses to one of our solely-owned patent families. At close, we received consideration in the form of an upfront payment of \$1.0 million and an equity interest in Incyclix equal to 10% of its issued and outstanding units valued at \$1.1 million. In addition, we may receive a future development milestone payment totaling \$2.0 million and royalty payments in the mid-single digits based on net sales of the licensed compound after commercialization. In the first quarter of 2022, Incyclix announced a new round of financing which we did not participate. Following the financing, our equity interest is now approximately 6.5%.

We also have right of first negotiation to re-acquire these assets. In 2021, Incyclix returned three of the four licensed patent families. Under the Incyclix License, Incyclix received the exclusive right to prosecute these patent families in its sole discretion, and we have the right to review and comment on all material patent filings, and our review and comments will be considered by Incyclix in good faith.

Under the Incyclix License, Incyclix is solely responsible for all patent prosecution costs. Incyclix has the first right, but not the obligation, to bring and control any infringement action at its own expense, subject to Incyclix keeping us reasonably informed. Incyclix also has the right to name and join us in any infringement action relating to our patents. In the case of a patent certification in connection with an Abbreviated New Drug Application under the U.S. Hatch Waxman Act, or the substantial equivalent in a foreign country, if Incyclix declines to file a lawsuit, we have the right to bring an infringement action at our own expense.

Exclusive license for rintodestrant

In November 2016, we entered into a license agreement with the University of Illinois, the University, pursuant to which we obtained an exclusive, worldwide license to make, use, import, sell and offer for sale certain SERDs, including rintodestrant, covered by patent rights owned by the University. The rights licensed to us are for all fields of use. The November 2016 license agreement was amended in March 2017. In May 2022, we notified the University that we were terminating the license agreement. After completing the evaluation of our rintodestrant partnering options and recent data in the highly competitive oral SERD space, we made the strategic decision to discontinue the program. We reverted the rights back to the originator, the University, during the third quarter of 2022; there are no additional financial obligations due to the originator resulting from the reversion.

Trade secrets

In addition to patents, we rely upon unpatented trade secrets and know-how and continuing technological innovation to develop and maintain our competitive position. We seek to protect our proprietary information, in part, using confidentiality agreements with our commercial partners, collaborators, employees, and consultants, and invention assignment agreements with our employees. These agreements are designed to protect our proprietary information and, in the case of the invention assignment agreements, to grant us ownership of technologies that are developed through a relationship with a third party. These agreements may be breached, and we may not have adequate remedies for any breach. In addition, our trade secrets may otherwise become known or be independently discovered by competitors. To the extent that our commercial partners, collaborators, employees, and consultants use intellectual property owned by others in their work for us, disputes may arise as to the rights in related or resulting know-how and inventions.

Government regulation and product approval

FDA approval process

In the United States, pharmaceutical products are subject to extensive regulation by the U.S. Food and Drug Administration, or FDA. The Federal Food, Drug, and Cosmetic Act, or the FDC Act, and other federal and state statutes and regulations, govern, among other things, the research, development, testing, manufacture, storage, recordkeeping, approval, labeling, promotion and marketing, distribution, post-approval monitoring and reporting, sampling, and import and export of pharmaceutical products. Failure to comply with applicable U.S. requirements may subject a company to a variety of administrative or judicial sanctions, such as FDA refusal to approve pending new drug applications, or NDAs, warning letters, voluntary product recalls, product seizures, total or partial suspension of production or distribution, injunctions, fines, civil penalties, and criminal prosecution.

Preclinical tests include laboratory evaluation of product chemistry, formulation, and toxicity, as well as animal studies to assess the pharmacokinetic and pharmacodynamic characteristics and potential safety and effectiveness of the product. The conduct of the preclinical tests must comply with certain federal regulations and requirements, including good laboratory practices, or GLP, for any safety testing. The results of preclinical testing are submitted to the FDA as part of an IND along with other information, including information about product chemistry, manufacturing and controls, and a proposed clinical trial protocol. Long-term nonclinical tests, such as animal tests of reproductive toxicity and carcinogenicity, may continue after the IND is submitted.

Clinical trials involve the administration of the investigational new drug to healthy volunteers or patients under the supervision of qualified investigators. Clinical trials must be conducted: (i) under the supervision of one or more qualified investigators and in compliance with federal regulations, including those encompassing good clinical practice, or GCP, requirements that are meant to protect the rights and welfare of study subjects and to define the roles of clinical trial sponsors, investigators, and monitors, and (ii) under protocols detailing the objectives of the clinical trial, the parameters to be used in monitoring safety and the effectiveness criteria to be evaluated.

The FDA may order the temporary, or permanent, discontinuation of a clinical trial at any time by imposing a clinical hold or impose other sanctions if it believes that the clinical trial either is not being conducted in accordance with FDA requirements or presents an unacceptable risk to the clinical trial subjects. The clinical trial protocol and informed consent information for subjects in clinical trials must also be submitted for review and approval by an institutional review board, or IRB, on behalf of each participating in the clinical trial before the trial commences at that site. An IRB also monitors the trial until completion and may require the clinical trial at the site to be halted, either temporarily or permanently, for failure to comply with the IRB's requirements or for safety issues or it may impose other conditions on the clinical investigators or the sponsor of the clinical trial.

After completion of the required clinical testing, an NDA is prepared and submitted to the FDA. FDA approval of the NDA is required before marketing of the product may begin in the United States. The NDA must include the results of all nonclinical, clinical, and other testing and a compilation of data relating to the product's chemistry, manufacture, and controls. The cost of preparing and submitting an NDA is substantial. Under federal law, the submission of most NDAs is additionally subject to a substantial application user fee, currently over \$2.8 million for an NDA with clinical information, and the manufacturer and/or sponsor under an approved NDA is also subject to an annual program fee, currently over \$330,000. These fees are typically increased annually. Fee waivers or reductions are available in certain circumstances.

The FDA has 60 days from its receipt of an NDA to determine whether the application will be accepted for filing based on the agency's threshold determination that it is sufficiently complete to permit substantive review. Once the submission is accepted for filing, the FDA begins an in-depth review. The FDA has agreed to certain performance goals in the review of NDAs. The FDA seeks to review applications for standard review drug products within ten months, and applications for priority review drugs within six months. Priority review can be applied to drugs intended to treat a serious condition and that the FDA determines offer major advances in treatment, or provide a treatment where no adequate therapy exists. The review process for both standard and priority reviews may be extended by FDA for three additional months to consider additional, late-submitted information, or information intended to clarify information already provided in the submission in response to FDA review questions.

The FDA may also refer applications for novel drug products, or drug products that present difficult questions of safety or efficacy, to an external advisory committee, which is typically a panel that includes clinicians and other experts, for review, evaluation, and a recommendation as to whether the application should be approved. The FDA is not bound by the recommendation of an advisory committee, but it generally follows such recommendations. Before approving an NDA, the FDA will typically inspect one or more clinical sites to assure compliance with GCP. Additionally, the FDA will typically inspect the facility or the facilities at which the drug is manufactured, unless the facility has recently had an FDA inspection. The FDA also typically inspects the application sponsor. The FDA will not approve the product unless compliance with current good manufacturing practice, or cGMP, requirements is satisfactory and the NDA contains data that provide substantial evidence that the drug is safe and effective in the indication studied.

After the FDA evaluates the NDA and the manufacturing facilities, it issues either an approval letter or a complete response letter. A complete response letter generally outlines the deficiencies in the submission and may require substantial additional testing, or additional nonclinical or clinical study information, in order for the FDA to reconsider the application. If a complete response letter is issued, the applicant may either resubmit the NDA, addressing all of the deficiencies identified in the letter, or withdraw the application. If, or when, those deficiencies have been addressed to the FDA's satisfaction in a resubmission of the NDA, the FDA will issue an approval letter. The FDA has committed to reviewing such resubmissions in two or six months depending on the type of information included.

An approval letter authorizes commercial marketing of the drug with the accompanying approved prescribing information for specific indications. As a condition of NDA approval, the FDA may require a risk evaluation and mitigation strategy, or REMS, in addition to the approved labeling, to help ensure that the benefits of the drug outweigh its risks. A REMS could include communication plans for health care professionals, medication guides for patients, and/or elements to assure safe use, or ETASU. ETASU can include, but are not limited to, special training or certification for prescribing or dispensing, restricted distribution requirements, dispensing only under certain circumstances, special monitoring, and the use of patient registries. The FDA determines the requirement for a REMS, as well as the specific REMS provisions, on a case-by-case basis. If the FDA concludes a REMS plan is needed, the sponsor of the NDA must submit a proposed REMS plan. The requirement for a REMS can materially affect the potential market and profitability of the drug. Moreover, product approval may require substantial post-approval testing and surveillance to monitor the drug's safety or efficacy as described as postmarketing commitments or requirements included in the approval letter. Once granted, product approvals may be withdrawn if compliance with regulatory requirements and commitments is not maintained or problems are identified following initial marketing.

Disclosure of clinical trial information

Sponsors of clinical trials of certain FDA-regulated products, including prescription drugs, are required to register and disclose certain clinical trial information on a public registry maintained by the U.S. National Institutes of Health (NIH). Information related to the product, patient population, phase of investigation, clinical trial sites and investigator, and other aspects of the clinical trial is made public as part of the registration of the clinical trial. Although sponsors are also obligated to disclose the results of their clinical trials after completion, disclosure of the results may be delayed in some cases for up to two years after the date of completion of the trial. Competitors may use this publicly available information to gain knowledge regarding the design and progress of our development programs. Failure to timely register a covered clinical study or to submit study results as provided for in the law can give rise to civil monetary penalties and also prevent the non-compliant party from receiving future grant funds from the federal government. The NIH's Final Rule on ClinicalTrials.gov registration and reporting requirements became effective in 2017, and both NIH and FDA have signaled the government's willingness to begin enforcing those requirements against non-compliant clinical trial sponsors.

Data privacy and the protection of personal information

We are subject to laws and regulations governing data privacy and the protection of personal information including health information. The legislative and regulatory landscape for privacy and data protection continues to evolve, and there has been an increasing focus on privacy and data protection issues which will continue to affect our business. In the United States, we may be subject to state security breach notification laws, state laws protecting the privacy of health and personal information and federal and state consumer protections laws which regulate the collection, use, disclosure and transmission of personal information. These laws overlap and often conflict and each of these laws is subject to varying interpretations by courts and government agencies, creating complex compliance issues for us. If we fail to comply with applicable laws and regulations, we could be subject to penalties or sanctions, including criminal penalties. Our customers and research partners must comply with laws governing the privacy and security of health information, including the Health Insurance Portability and Accountability Act of 1996 as amended ("HIPAA") and state health information privacy laws. If we knowingly obtain health information that is protected under HIPAA, called "protected health information", our customers or research collaborators may be subject to enforcement and we may have direct liability for the unlawful receipt of protected health information or for aiding and abetting a HIPAA violation.

State laws protecting health and personal information are becoming increasingly stringent. For example, California has implemented the California Confidentiality of Medical Information Act that imposes restrictive requirements regulating the use and disclosure of health information and other personally identifiable information, and California has recently adopted the California Consumer Privacy Act of 2018 (the CCPA). The CCPA mirrors a number of the key provisions of the EU General Data Protection Regulation (GDPR) described below. The CCPA establishes a new privacy framework for covered businesses by creating an expanded definition of personal information, establishing new data privacy rights for consumers in the State of California, imposing special rules on the collection of consumer data from minors, and creating a new and potentially severe statutory damages framework for violations of the CCPA and for businesses that fail to implement reasonable security procedures and practices to prevent data breaches. Additionally, a new privacy law, the California Privacy Rights Act (CPRA), was approved by California voters in the election on November 3, 2020, and certain provisions are effective as of January 1, 2022, with full effectiveness as of January 1, 2023. The CPRA modifies the CCPA significantly, potentially resulting in further uncertainty, additional costs and expenses in an effort to comply and additional potential for harm and liability for failure to comply. Among other things the CPRA established a new regulatory authority, the California Privacy Protection Agency, which will be enacting new regulations and will have expanded enforcement authority. Virginia and Colorado enacted similar data protection laws in 2021, and other U.S. states have proposals under consideration, increasing the regulatory compliance risk.

The Hatch-Waxman Act and marketing applications for follow-on drugs

In 1984, with passage of the Hatch-Waxman Amendments to the FDC Act, Congress authorized the FDA to approve generic drugs that are the same as drugs previously approved by the FDA under the NDA provisions of the statute and also enacted Section 505(b)(2) of the FDC Act. To obtain approval of a generic drug, an applicant must submit an abbreviated new drug application, or ANDA, to the agency. In support of such applications, a generic manufacturer may rely on the preclinical and clinical testing conducted for a drug product previously approved under an NDA, known as the reference listed drug, or RLD. Specifically, in order for an ANDA to be approved, the FDA must find that the generic version is identical to the RLD with respect to the active ingredients, the route of administration, the dosage form, and the strength of the drug. At the same time, the FDA must also determine that the generic drug is “bioequivalent” to the innovator drug.

Orange book listing

In seeking approval for a drug through an NDA, applicants are required to list with the FDA each patent that has claims that cover the applicant’s product or method of therapeutic use. Upon approval of a drug, each of the patents listed in the application for the drug is then published in the FDA’s Approved Drug Products with Therapeutic Equivalence Evaluations, commonly known as the Orange Book. Drugs listed in the Orange Book can, in turn, be cited by potential generic competitors in support of approval of an ANDA. The ANDA requests permission to market a drug product that has the same active ingredients in the same strengths and dosage form as the RLD and has been shown through bioequivalence testing to be therapeutically equivalent to the RLD. Other than the requirement for bioequivalence testing, ANDA applicants are not required to conduct, or submit results of, nonclinical or clinical tests to prove the safety or effectiveness of their drug product. Drugs approved in this way are commonly referred to as “generic equivalents” to the innovator drug, and can often be substituted by pharmacists under prescriptions written for the original listed drug referenced by the ANDA applicant if the FDA’s listing for the generic drug in the Orange Book indicates that it is “therapeutically equivalent” to the RLD.

In contrast, Section 505(b)(2) permits the filing of an NDA where at least some of the information required for approval comes from studies not conducted by or for the applicant and for which the applicant has not obtained a right of reference. A Section 505(b)(2) applicant may eliminate the need to conduct certain preclinical or clinical studies, if it can establish that reliance on studies conducted for a previously approved product is scientifically appropriate. Unlike the ANDA pathway used by developers of bioequivalent versions of innovator drugs, which does not allow applicants to submit new clinical data other than bioavailability or bioequivalence data, the 505(b)(2) regulatory pathway does not preclude the possibility that a follow-on applicant would need to conduct additional clinical trials or nonclinical studies; for example, it may be seeking approval to market a previously approved drug for new indications or for a new patient population that would require new clinical data to demonstrate safety or effectiveness.

When an ANDA applicant submits its application to the FDA, it is required to certify to the FDA concerning any patents listed for the approved product in the FDA's Orange Book. Specifically, the applicant must certify that: (i) the required patent information has not been filed; (ii) the listed patent has expired; (iii) the listed patent has not expired, but will expire on a particular date and approval is sought after patent expiration; or (iv) the listed patent is invalid or will not be infringed by the new product. The ANDA applicant may also elect to submit a section viii statement, certifying that its proposed ANDA label does not contain or carve out any language regarding the patented method-of-use, rather than certify to a listed method-of-use patent. Moreover, to the extent that the Section 505(b)(2) NDA applicant is relying on studies conducted for an already approved product, the applicant also is required to certify to the FDA concerning any patents listed for the approved product in the Orange Book to the same extent that an ANDA applicant would.

If the applicant does not challenge the innovator's listed patents, FDA will not approve the ANDA or 505(b)(2) application until all the listed patents claiming the referenced product have expired. A certification that the new product will not infringe the already approved product's listed patents, or that such patents are invalid, is called a Paragraph IV certification. If the ANDA applicant has provided a Paragraph IV certification to the FDA, the applicant must also send notice of the Paragraph IV certification to the NDA and patent holders once the ANDA has been accepted for filing by the FDA. The NDA and patent holders may then initiate a patent infringement lawsuit in response to the notice of the Paragraph IV certification. The filing of a patent infringement lawsuit within 45 days of the receipt of a Paragraph IV certification automatically prevents the FDA from approving the ANDA until the earlier of 30 months, expiration of the patent, settlement of the lawsuit, or a decision in the infringement case that is favorable to the ANDA applicant.

An ANDA or 505(b)(2) application also will not be approved until any applicable non-patent exclusivity listed in the Orange Book for the referenced product has expired.

Non-Patent Exclusivity

Upon NDA approval of a new chemical entity or NCE, which is a drug that contains no active moiety that has been approved by the FDA in any other NDA, that drug receives five years of marketing exclusivity during which time the FDA cannot receive any ANDA seeking approval of a generic version of that drug. Certain changes to a drug, such as the addition of a new indication to the package insert or a different formulation, are associated with a three-year period of exclusivity. During the exclusivity period, the FDA cannot accept for review any ANDA or 505(b)(2) NDA submitted by another company for another version of such drug where the applicant does not own or have a legal right of reference to all the data required for approval. However, an application may be submitted one year before NCE exclusivity expires if a Paragraph IV certification is filed on an NCE patent and any time after approval if the application is filed based on a new indication or a new formulation.

The Hatch-Waxman Act also provides three years of data exclusivity for a NDA, 505(b)(2) NDA or supplement to an existing NDA if new clinical investigations, other than bioavailability studies, that were conducted or sponsored by the applicant are deemed by the FDA to be essential to the approval of the application, for example, new indications, dosages or strengths of an existing drug. This three-year exclusivity covers only the conditions of use associated with the new clinical investigations and does not prohibit the FDA from approving follow-on applications for drugs containing the original active agent. If there is no listed patent in the Orange Book, there may not be a Paragraph IV certification, and, thus, no ANDA or 505(b)(2) NDA may be filed before the expiration of the exclusivity period. Five-year and three-year exclusivity also will not delay the submission or approval of a traditional NDA filed under Section 505(b)(1) of the FDC Act. However, an applicant submitting a traditional NDA would be required to either conduct or obtain a right of reference to all of the preclinical studies and adequate and well-controlled clinical trials necessary to demonstrate safety and effectiveness.

Patent term extension

After NDA approval, owners of relevant drug patents may apply for up to a five-year patent term extension. The allowable patent term extension is calculated as half of the drug's testing phase—the time between when the IND becomes effective and NDA submission—and all of the review phase—the time between NDA submission and approval, up to a maximum of five years. The time can be shortened if FDA determines that the applicant did not pursue approval with due diligence. The total patent term after the extension may not exceed 14 years.

For patents that might expire during the application phase, the patent owner may request an interim patent extension. An interim patent extension increases the patent term by one year and may be renewed up to four times. For each interim patent extension granted, the post-approval patent extension is reduced by one year. The director of the Patent and Trademark Office (PTO) must determine that approval of the drug covered by the patent for which a patent extension is being sought is likely. Interim patent extensions are not available for a drug for which an NDA has not been submitted.

Pediatric clinical trials and exclusivity

Under the Pediatric Research Equity Act, or PREA, NDAs or certain types of supplements to NDAs must contain data to assess the safety and effectiveness of the drug for the claimed indications in all relevant pediatric subpopulations and to support dosing and administration for each pediatric subpopulation for which the drug is safe and effective. The sponsor must submit an initial Pediatric Study Plan, or PSP, within 60 days of an end-of-phase 2 meeting or as may be agreed between the sponsor and the FDA. The initial PSP must include an outline of the pediatric study or studies that the sponsor plans to conduct, including study objectives and design, age groups, relevant endpoints and statistical approach, or a justification for not including such detailed information, and any request for a deferral of pediatric assessments or a full or partial waiver of the requirement to provide data from pediatric studies along with supporting information. The FDA and the sponsor must reach agreement on the PSP. A sponsor can submit amendments to an agreed-upon initial PSP at any time if changes to the pediatric plan need to be considered based on data collected from nonclinical studies, early phase clinical trials, and/or other clinical development programs. The FDA may grant full or partial waivers, or deferrals, for submission of pediatric assessment data.

The Best Pharmaceuticals for Children Act, or BPCA, provides NDA holders a six-month extension of any exclusivity—patent or non-patent—for a drug if certain conditions are met, including satisfaction of a pediatric trial(s) agreed with FDA as a Pediatric Written Request. Conditions for pediatric exclusivity include the FDA's determination that information relating to the use of a new drug in the pediatric population may produce health benefits in that population, the FDA making a written request for pediatric clinical trials, and the applicant agreeing to perform, and reporting on, the requested clinical trials within the statutory timeframe. Applications under the BPCA are treated as priority applications, with all of the benefits that designation confers. This six-month exclusivity may be granted if an NDA sponsor submits pediatric data that fairly respond to the written request from the FDA for such data. Those data do not need to show the product to be effective in the pediatric population studied; rather, if the clinical trial is deemed to fairly respond to the FDA's request, the additional protection is granted. Although this is not a patent term extension, it effectively extends the regulatory period during which the FDA cannot approve another application.

Fast track, breakthrough therapy, and priority review designations

The FDA is authorized to designate certain products for expedited development or review if they are intended to address an unmet medical need in the treatment of a serious or life-threatening disease or condition. These programs include fast track designation, breakthrough therapy designation, and priority review designation. Even if a drug qualifies for one or more of these programs, the FDA may later decide that the drug no longer meets the conditions for qualification or that the time period for FDA review or approval will not be shortened. Generally, drugs that may be eligible for these programs are those for serious or life-threatening conditions, those with the potential to address unmet medical needs, and those that offer meaningful benefits over existing treatments. For example, fast track designation is a process designed to facilitate the development, and expedite the review, of drugs to treat serious or life-threatening diseases and fill an unmet medical need. The designation request may be made at the time of IND submission and generally no later than the pre-NDA meeting. The FDA will respond within 60 calendar days of receipt of the request. Priority review, which is requested at the time of NDA submission, is designed to give drugs that offer major advances in treatment or provide a treatment where no adequate therapy exists, an initial review within six months after filing as compared to a standard review time of ten months. Although fast track designation and priority review do not affect the standards for approval, the FDA will attempt to facilitate early and frequent meetings with a sponsor of a fast track designated drug and expedite review of the application for a drug designated for priority review. Accelerated approval provides an earlier approval of drugs to treat serious diseases, and that fill an unmet medical need based on a surrogate endpoint, which is a laboratory measurement or physical sign used as an indirect or substitute measurement representing a clinically meaningful outcome. Discussions with the FDA about the feasibility of an accelerated approval typically begin early in the development of the drug in order to identify, among other things, an appropriate endpoint. As a condition of approval, the FDA may require that a sponsor of a drug receiving accelerated approval perform post-marketing clinical trials to confirm the appropriateness of the surrogate marker clinical trial.

Another expedited program is that for breakthrough therapy designation, which is designed to expedite the development and review of drugs that are intended to treat a serious condition where preliminary clinical evidence indicates that the drug may demonstrate substantial improvement over available therapy on a clinically significant endpoint(s). A sponsor may request breakthrough therapy designation at the time that the IND is submitted, or no later than at the end-of-Phase 2 meeting. The FDA will respond to a breakthrough therapy designation request within sixty days of receipt of the request. A drug that receives breakthrough therapy designation is eligible for all fast track designation features, intensive guidance on an efficient drug development program, beginning as early as Phase 1, and commitment from the FDA involving senior managers. Products that are designated as Breakthrough therapies with priority review are often given preclinical or clinical post-marketing requirements or post marketing commitments by the FDA.

Accelerated approval pathway

In addition, products studied for their safety and effectiveness in treating serious or life-threatening illnesses and that provide meaningful therapeutic benefit over existing treatments may receive accelerated approval from the FDA and may be approved on the basis of adequate and well-controlled clinical trials establishing that the drug product has an effect on a surrogate endpoint that is reasonably likely to predict clinical benefit. A surrogate endpoint is a laboratory measurement or physical sign used as an indirect or substitute measurement representing a clinically meaningful outcome. Surrogate endpoints can often be measured more easily or more rapidly than clinical endpoints. The FDA may also grant accelerated approval for such a drug when the product has an effect on an intermediate clinical endpoint that can be measured earlier than an effect on irreversible morbidity or mortality, or IMM, and that is reasonably likely to predict an effect on IMM or other clinical benefit, taking into account the severity, rarity, or prevalence of the condition and the availability or lack of alternative treatments. The FDA has limited experience with accelerated approvals based on intermediate clinical endpoints, but has indicated that such endpoints generally may support accelerated approval when the therapeutic effect measured by the endpoint is not itself a clinical benefit and basis for traditional approval, if there is a basis for concluding that the therapeutic effect is reasonably likely to predict the ultimate long-term clinical benefit of a drug.

Discussions with the FDA about the feasibility of an accelerated approval typically begin early in the development of the drug in order to identify, among other things, an appropriate endpoint. The accelerated approval pathway is most often used in settings in which the course of a disease is long and an extended period of time is required to measure the intended clinical benefit of a drug, even if the effect on the surrogate or intermediate clinical endpoint occurs rapidly. For example, accelerated approval has been used extensively in the development and approval of drugs for treatment of a variety of cancers in which the goal of therapy is generally to improve survival or decrease morbidity and the duration of the typical disease course requires lengthy and sometimes large clinical trials to demonstrate a clinical or survival benefit.

As a condition of approval, the FDA may require that a sponsor of a drug receiving accelerated approval perform post-marketing clinical trials to verify and describe the predicted effect on IMM or other clinical endpoint. Drugs granted accelerated approval must meet the same statutory standards for safety and effectiveness as those granted traditional approval. Because the accelerated approval pathway is usually contingent on a sponsor's agreement to conduct, in a diligent manner, additional post-approval confirmatory studies to verify and describe the drug's clinical benefit, a product candidate approved on this basis is subject to rigorous post-marketing compliance requirements, including the completion of Phase 4 or post-approval clinical trials to confirm the effect on the clinical endpoint. Failure to conduct required post-approval studies, or to confirm the predicted clinical benefit of the product during post-marketing studies, would allow the FDA to withdraw approval of the drug. In addition, all promotional materials for product candidates being considered and approved under the accelerated approval program are subject to prior review by the FDA.

Regulation of companion diagnostic devices

If we decide that a diagnostic test would provide useful information for patient selection or if the FDA requires us to develop such a test, we may work with a collaborator to develop an *in vitro* diagnostic, or companion test. The FDA regulates *in vitro* diagnostic tests as medical devices, and the type of regulation to which such a test will be subjected will depend, in part, on a risk assessment by the FDA as well as a determination of whether the test is intended to yield results that would be helpful to know versus one that the FDA or we believe is necessary to know for the safe and effective use of our drugs under development.

The FDA has issued several guidance documents on *in vitro* companion diagnostic devices in August 2014, which are intended to assist companies developing *in vitro* companion diagnostic devices and companies developing therapeutic products that depend on the use of a specific *in vitro* companion diagnostic for the safe and effective use of the product. The FDA defines an *in vitro* companion diagnostic device, or IVD companion diagnostic device, as a device that provides information that is essential for the safe and effective use of a corresponding therapeutic product, such as when the use of a product is limited to a specific patient subpopulation that can be identified by using the test. The use of an IVD companion diagnostic device with a therapeutic product will be stipulated in the instructions for use in the labeling of both the diagnostic device and the corresponding therapeutic product, including the labeling of any generic equivalents of the therapeutic product. The FDA expects that the therapeutic product sponsor will address the need for an approved or cleared IVD companion diagnostic device in its therapeutic product development plan and that, in most cases, the therapeutic product and its corresponding companion diagnostic will be developed contemporaneously. However, the FDA may decide that it is appropriate to approve such a product without an approved or cleared *in vitro* companion diagnostic device when the drug or therapeutic biologic is intended to treat a serious or life-threatening condition for which no satisfactory alternative treatment exists and the FDA determines that the benefits from the use of a product with an unapproved or uncleared *in vitro* companion diagnostic device are so pronounced as to outweigh the risks from the lack of an approved or cleared *in vitro* companion diagnostic device. The FDA encourages sponsors considering developing a therapeutic product that requires a companion diagnostic to request a meeting with both relevant device and therapeutic product review divisions to ensure that the product development plan will produce sufficient data to establish the safety and effectiveness of both the therapeutic product and the companion diagnostic. Because the FDA's policies on companion diagnostics is set forth only in guidance, this policy is subject to change and is not legally binding.

Post-approval requirements

Following FDA marketing approval of a new prescription drug product, the manufacturer and the approved drug are subject to pervasive and continuing regulation by the FDA, including, among other things, monitoring and recordkeeping activities, reporting of adverse experiences with the product, product sampling and distribution restrictions, complying with promotion and advertising requirements, which include restrictions on promoting drugs for unapproved uses or patient populations (i.e., "off-label use") and limitations on industry-sponsored scientific and educational activities. Although physicians may prescribe legally available products for off-label uses, manufacturers may not market or promote such uses. The FDA and other agencies actively enforce the laws and regulations prohibiting the promotion of off-label uses, and a company that is found to have improperly promoted off-label uses may be subject to significant liability. If there are any modifications to the product, including changes in indications, labeling or manufacturing processes or facilities, the applicant may be required to submit and obtain FDA approval of a new NDA or an NDA supplement, which may require the applicant to develop additional data or conduct additional preclinical studies and clinical trials.

Once an approval is granted, the FDA may withdraw the approval if compliance with regulatory requirements and standards is not maintained or if problems occur after the drug product reaches the market. Later discovery of previously unknown problems with a product, including adverse events of unanticipated severity or frequency, may result in mandatory revisions to the approved labeling to add new safety information; imposition of post-market or clinical trials to assess new safety risks; or imposition of distribution or other restrictions under a REMS program. Other potential consequences include, among other things:

- restrictions on the marketing or manufacturing of the product, complete withdrawal of the product from the market or product recalls;
- fines, warning letters or other enforcement-related letters or clinical holds on post-approval clinical trials;
- refusal of the FDA to approve pending NDAs or supplements to approved NDAs, or suspension or revocation of product approvals;
- product seizure or detention, or refusal to permit the import or export of products;
- injunctions or the imposition of civil or criminal penalties; and
- consent decrees, corporate integrity agreements, debarment, or exclusion from federal health care programs; or mandated modification of promotional materials and labeling and the issuance of corrective information.

Accordingly, COSELA and any future therapeutic candidate manufactured or distributed by us pursuant to FDA approvals are subject to continuing regulation by the FDA, including, among other things:

- record-keeping requirements;
- reporting of adverse experiences with the therapeutic candidate;
- providing the FDA with updated safety and efficacy information;
- therapeutic sampling and distribution requirements;
- notifying the FDA and gaining its approval of specified manufacturing or labeling changes; and
- complying with FDA promotion and advertising requirements, which include, among other things, standards for direct-to-consumer advertising, restrictions on promoting products for uses or in-patient populations that are not described in the product's approved labeling, limitations on industry-sponsored scientific and educational activities and requirements for promotional activities involving the internet.

FDA regulations require that products be manufactured in specific approved facilities and in accordance with cGMPs. The cGMP regulations include requirements relating to organization of personnel, buildings and facilities, equipment, control of components and drug product containers and closures, production and process controls, packaging and labeling controls, holding and distribution, laboratory controls, records and reports and returned or salvaged products. Drug manufacturers and other entities involved in the manufacture and distribution of approved drug products are required to register their establishments with the FDA and certain state agencies and are subject to periodic unannounced inspections by the FDA and some state agencies for compliance with cGMPs and other laws. The FDA periodically inspects manufacturing facilities to assess compliance with cGMP requirements. In addition, changes to the manufacturing process are strictly regulated, and, depending on the significance of the change, may require FDA approval before being implemented. FDA regulations also require investigation and correction of any deviations from cGMP and impose reporting and documentation requirements upon the NDA applicant and any third-party manufacturers involved in producing the approved drug product. Accordingly, manufacturers must continue to expend time, money and effort in the area of production and quality control to maintain compliance with cGMP and other aspects of quality control and quality assurance.

In addition, the distribution of prescription pharmaceutical products is subject to the Prescription Drug Marketing Act, or the PDMA, which regulates the distribution of drugs and drug samples at the federal level, and sets minimum standards for the registration and regulation of drug distributors by the states. Both the PDMA and state laws limit the distribution of prescription pharmaceutical product samples and impose requirements to ensure accountability in distribution. Most recently, the Drug Supply Chain Security Act, or the DSCSA, was enacted with the aim of building an electronic system to identify and trace certain prescription drugs distributed in the United States, including most biological products. The DSCSA mandates phased-in and resource-intensive obligations for pharmaceutical manufacturers, wholesale distributors, and dispensers over a 10-year period that is expected to culminate in November 2023. From time to time, new legislation and regulations may be implemented that could significantly change the statutory provisions governing the approval, manufacturing and marketing of products regulated by the FDA. It is impossible to predict whether further legislative or regulatory changes will be enacted, or FDA regulations, guidance or interpretations changed or what the impact of such changes, if any, may be.

Europe/Rest of world government regulation

In addition to regulations in the United States, we are and will be subject, either directly or through our distribution partners, to a variety of regulations in other jurisdictions governing, among other things, clinical trials, the privacy of personal data and commercial sales and distribution of our products, if approved.

Whether or not we obtain FDA approval for a product, we must obtain the requisite approvals from regulatory authorities in non-U.S. countries prior to the commencement of clinical trials or marketing of the product in those countries. Certain countries outside of the United States have a process that requires the submission of a clinical trial application much like an IND prior to the commencement of human clinical trials. In Europe, for example, a clinical trial application, or CTA, must be submitted to the competent national health authority and to independent ethics committees in each country in which a company plans to conduct clinical trials. Once the CTA is approved in accordance with a country's requirements, clinical trials may proceed in that country.

The requirements and process governing the conduct of clinical trials, product licensing, pricing and reimbursement vary from country to country, even though there is already some degree of legal harmonization in the European Union member states resulting from the national implementation of underlying E.U. legislation. In all cases, the clinical trials are conducted in accordance with GCP and other applicable regulatory requirements.

To obtain a marketing license for a new drug, or medicinal product in the European Union, the sponsor must obtain approval of a marketing authorization application, or MAA. The way in which a medicinal product can be approved in the European Union depends on the nature of the medicinal product.

The centralized procedure results in a single marketing authorization granted by the European Commission that is valid across the European Union, as well as in Iceland, Liechtenstein, and Norway. The centralized procedure is compulsory for human drugs that are: (i) derived from biotechnology processes, such as genetic engineering, (ii) contain a new active substance indicated for the treatment of certain diseases, such as HIV/AIDS, cancer, diabetes, neurodegenerative diseases, autoimmune and other immune dysfunctions and viral diseases, (iii) officially designated “orphan drugs” (drugs used for rare human diseases) and (iv) advanced-therapy medicines, such as gene-therapy, somatic cell-therapy or tissue-engineered medicines. The centralized procedure may at the request of the applicant also be used for human drugs which do not fall within the above mentioned categories if the human drug (a) contains a new active substance which was not authorized in the European Community; or (b) the applicant shows that the medicinal product constitutes a significant therapeutic, scientific or technical innovation or that the granting of authorization in the centralized procedure is in the interests of patients or animal health at the European Community level.

Under the centralized procedure in the European Union, the maximum timeframe for the evaluation of a marketing authorization application by the European Medicines Agency, or EMA, is 210 days (excluding clock stops, when additional written or oral information is to be provided by the applicant in response to questions asked by the Committee for Medicinal Products for Human Use, or CHMP), with adoption of the actual marketing authorization by the European Commission thereafter. Accelerated evaluation might be granted by the CHMP in exceptional cases, when a medicinal product is expected to be of a major public health interest from the point of view of therapeutic innovation, defined by three cumulative criteria: the seriousness of the disease to be treated; the absence of an appropriate alternative therapeutic approach, and anticipation of exceptional high therapeutic benefit. In this circumstance, EMA ensures that the evaluation for the opinion of the CHMP is completed within 150 days and the opinion issued thereafter.

The mutual recognition procedure, or MRP, for the approval of human drugs is an alternative approach to facilitate individual national marketing authorizations within the European Union. Basically, the MRP may be applied for all human drugs for which the centralized procedure is not obligatory. The MRP is applicable to the majority of conventional medicinal products, and is based on the principle of recognition of an already existing national marketing authorization by one or more member states. In the MRP, a marketing authorization for a drug already exists in one or more member states of the E.U. and subsequently marketing authorization applications are made in other European Union member states by referring to the initial marketing authorization. The member state in which the marketing authorization was first granted will then act as the reference member state. The member states where the marketing authorization is subsequently applied for act as concerned member states. After a product assessment is completed by the reference member state, copies of the report are sent to all member states, together with the approved summary of product characteristics, labeling and package leaflet. The concerned member states then have 90 days to recognize the decision of the reference member state and the summary of product characteristics, labeling and package leaflet. National marketing authorizations within individual member states shall be granted within 30 days after acknowledgement of the agreement

Should any member state refuse to recognize the marketing authorization by the reference member state, on the grounds of potential serious risk to public health, the issue will be referred to a coordination group. Within a timeframe of 60 days, member states shall, within the coordination group, make all efforts to reach a consensus. If this fails, the procedure is submitted to an EMA scientific committee for arbitration. The opinion of this EMA committee is then forwarded to the Commission, for the start of the decision-making process. As in the centralized procedure, this process entails consulting various European Commission Directorates General and the Standing Committee on Human Medicinal Products or Veterinary Medicinal Products, as appropriate.

For countries outside of the European Union, such as countries in Eastern Europe, Latin America or Asia, the requirements governing the conduct of clinical trials, product licensing, pricing and reimbursement vary from country to country. In all cases, again, the clinical trials are conducted in accordance with GCP and the other applicable regulatory requirements.

If we fail to comply with applicable foreign regulatory requirements, we may be subject to, among other things, fines, suspension of clinical trials, suspension or withdrawal of regulatory approvals, product recalls, seizure of products, operating restrictions, and criminal prosecution.

Europe - Data Privacy

On May 25, 2018, the European General Data Protection Regulation, or GDPR, went into effect, implementing a broad data protection framework that expanded the scope of EU data protection law, including to non-EU entities that process, or control the processing of, personal data relating to individuals located in the EU, including clinical trial data. The GDPR sets out a number of requirements that must be complied with when handling the personal data of European Union-based data subjects including: providing expanded disclosures about how their personal data will be used; higher standards for organizations to demonstrate that they have obtained valid consent or have another legal basis in place to justify their data processing activities; the obligation to appoint data protection officers in certain circumstances; new rights for individuals to be “forgotten” and rights to data portability, as well as enhanced current rights (e.g. access requests); the principal of accountability and demonstrating compliance through policies, procedures, training and audit; and a new mandatory data breach regime. In particular, medical or health data, genetic data and biometric data where the latter is used to uniquely identify an individual are all classified as “special category” data under the GDPR and afforded greater protection and require additional compliance obligations. Further, EU member states have a broad right to impose additional conditions—including restrictions—on these data categories. This is because the GDPR allows EU member states to derogate from the requirements of the GDPR mainly in regard to specific processing situations (including special category data and processing for scientific or statistical purposes). As the EU states continue to reframe their national legislation to harmonize with the GDPR, we will need to monitor compliance with all relevant EU member states’ laws and regulations, including where permitted derogations from the GDPR are introduced.

We will also be subject to evolving EU laws on data export, if we transfer data outside the EU to ourselves or third parties outside of the EU. The GDPR only permits exports of data outside the EU where there is a suitable data transfer solution in place to safeguard personal data (e.g. the European Union Commission approved Standard Contractual Clauses). On July 16, 2020, the Court of Justice of the European Union or the CJEU, issued a landmark opinion in the case *Maximilian Schrems vs. Facebook* (Case C-311/18), called *Schrems II*. This decision calls into question certain data transfer mechanisms as between the EU member states and the US. The CJEU is the highest court in Europe and the *Schrems II* decision heightens the burden on data importers to assess U.S. national security laws on their business and future actions of EU data protection authorities are difficult to predict. Consequently, there is some risk of any data transfers from the European Union being halted. If we have to rely on third parties to carry out services for us, including processing personal data on our behalf, we are required under GDPR to enter into contractual arrangements to help ensure that these third parties only process such data according to our instructions and have sufficient security measures in place. Any security breach or non-compliance with our contractual terms or breach of applicable law by such third parties could result in enforcement actions, litigation, fines and penalties or adverse publicity and could cause customers to lose trust in us, which would have an adverse impact on our reputation and business. Any contractual arrangements requiring the transfer of personal data from the EU to us in the United States will require greater scrutiny and assessments as required under *Schrems II* and may have an adverse impact on cross-border transfers of personal data, or increase costs of compliance. The GDPR provides an enforcement authority to impose large penalties for noncompliance, including the potential for fines of up to €20 million or 4% of the annual global revenues of the noncompliant company, whichever is greater. We will be subject to the GDPR when we have a European Union presence or “establishment” (e.g., EU based subsidiary or operations), when conducting clinical trials with EU based data subjects, whether the trials are conducted directly by us or through a vendor or partner, or offering approved products or services to EU-based data subjects, regardless of whether involving a EU based subsidiary or operations.

Pharmaceutical Coverage, Pricing, and Reimbursement

Sales of our products that are approved by the FDA will depend, in part, on the extent to which the products will be covered by third-party payors, including government health programs in the United States such as Medicare and Medicaid, commercial health insurers, and managed care organizations. The process for determining whether a payor will provide coverage for a product may be separate from the process for setting the price or reimbursement rate that the payor will pay for the product once coverage is approved, and it is time consuming and expensive to seek reimbursement from third-party payors. Third-party payors may limit coverage to specific products on an approved list, or formulary, which might not include all of the approved products for a particular indication. Coverage may be more limited than the purposes for which the product is approved by the FDA or regulatory authorities in other countries.

In order to secure coverage and reimbursement for any product that might be approved for sale, a company may need to conduct expensive pharmacoeconomic studies in order to demonstrate the medical necessity and cost-effectiveness of the product, in addition to the costs required to obtain FDA or other comparable regulatory approvals. A payor's decision to provide coverage for a drug product does not imply that an adequate reimbursement rate will be approved. Moreover, eligibility for reimbursement does not imply that any product will be paid for in all cases or at a rate that covers our costs, including research, development, manufacture, sale and distribution. Interim payments for new products, if applicable, may also not be sufficient to cover our costs and may not be made permanent. Payment rates may vary according to the use of the product and the clinical setting in which it is used, may be based on payments allowed for lower cost products that are already reimbursed and may be incorporated into existing payments for other services. Net prices for products may be reduced by mandatory discounts or rebates required by third-party payors and by any future relaxation of laws that presently restrict imports of products from countries where they may be sold at lower prices than in the United States. In the U.S., third-party payors often rely upon Medicare coverage policy and payment limitations in setting their own reimbursement policies, but they also have their own methods and approval process apart from Medicare coverage and reimbursement determinations. Accordingly, one third-party payor's determination to provide coverage for a product does not assure that other payors will also provide coverage for the product.

In addition, the containment of healthcare costs has become a priority of federal and state governments and the prices of therapeutics have been a focus in this effort. The United States government, state legislatures and foreign governments have shown significant interest in implementing cost-containment programs, including price controls, restrictions on reimbursement and requirements for substitution of generic products. Adoption of price controls and cost-containment measures, and adoption of more restrictive policies in jurisdictions with existing controls and measures, could further limit our net revenue and results. If these third-party payors do not consider our products to be cost-effective compared to other therapies, they may not cover our products after approval as a benefit under their plans or, if they do, the level of payment may not be sufficient to allow us to sell our products on a profitable basis. Moreover, companion diagnostic tests require coverage and reimbursement separate and apart from the coverage and reimbursement for their companion pharmaceutical products. Similar challenges to obtaining coverage and reimbursement for the pharmaceutical products apply to companion diagnostics.

In the European Union, pricing and reimbursement schemes vary widely from country to country. Some countries provide that drug products may be marketed only after a reimbursement price has been agreed. Some countries may require the completion of additional studies that compare the cost-effectiveness of our product candidate to currently available therapies (so called health technology assessment, or HTA) in order to obtain reimbursement or pricing approval. For example, the European Union provides options for its member states to restrict the range of drug products for which their national health insurance systems provide reimbursement and to control the prices of medicinal products for human use. E.U. member states may approve a specific price for a drug product or it may instead adopt a system of direct or indirect controls on the profitability of the company placing the drug product on the market. Other member states allow companies to fix their own prices for drug products but monitor and control prescription volumes and issue guidance to physicians to limit prescriptions. The downward pressure on health care costs in general, particularly prescription drugs, has become intense. As a result, increasingly high barriers are being erected to the entry of new products. In addition, there can be considerable pressure by governments and other stakeholders on prices and reimbursement levels, including as part of cost containment measures. Political, economic and regulatory developments may further complicate pricing negotiations, and pricing negotiations may continue after reimbursement has been obtained. Reference pricing used by various E.U. member states, and parallel distribution (arbitrage between low-priced and high-priced member states), can further reduce prices. Any country that has price controls or reimbursement limitations for drug products may not allow favorable reimbursement and pricing arrangements. There can be no assurance that any country that has price controls or reimbursement limitations for pharmaceutical products will allow favorable reimbursement and pricing arrangements for any of our product candidates that are approved for commercial marketing and distribution. Historically, therapeutic candidates launched in the European Union do not follow price structures of the United States and generally tend to be significantly lower.

Other Healthcare Laws and Regulations

As we are commercializing COSELA and may commercialize other product candidates in the future, we are subject to additional healthcare statutory and regulatory requirements and enforcement by federal government and the states and foreign governments in the jurisdictions in which we conduct our business. Healthcare providers, physicians and third-party payors play a primary role in the recommendation and prescription of COSELA and any other product candidates for which we obtain marketing approval. Our arrangements with third-party payors and customers expose us to broadly applicable fraud and abuse and other healthcare laws and regulations that constrain the business or financial arrangements and relationships through which we market, sell and distribute any products for which we obtain marketing approval.

Restrictions under applicable federal and state healthcare laws and regulations include the following:

- The federal Anti-Kickback Statute prohibits, among other things, any person from knowingly and willfully offering, soliciting, receiving or providing remuneration, directly or indirectly, to induce either the referral of an individual, for an item or service or the purchasing or ordering of a good or service, for which payment may be made under federal healthcare programs such as the Medicare and Medicaid programs. The federal Anti-Kickback Statute is subject to evolving interpretations. In the past, the government has enforced the federal Anti-Kickback Statute to reach large settlements with healthcare companies based on sham consulting and other financial arrangements with physicians. A person or entity does not need to have actual knowledge of the statute or specific intent to violate it in order to have committed a violation. In addition, the government may assert that a claim including items or services resulting from a violation of the federal Anti-Kickback Statute constitutes a false or fraudulent claim for purposes of the civil False Claims Act;
- The federal civil and criminal false claims laws, including the civil False Claims Act, and civil monetary penalty laws, prohibit, among other things, knowingly presenting or causing the presentation of a false, fictitious or fraudulent claim for payment to the U.S. government, knowingly making, using, or causing to be made or used a false record or statement material to a false or fraudulent claim to the U.S. government, or from knowingly making a false statement to avoid, decrease or conceal an obligation to pay money to the U.S. government. Actions under these laws may be brought by the Attorney General or as a qui tam action by a private individual in the name of the government. The federal government uses these laws, and the accompanying threat of significant liability, in its investigation and prosecution of pharmaceutical and biotechnology companies throughout the U.S., for example, in connection with the promotion of products for unapproved uses and other allegedly unlawful sales and marketing practices;
- The U.S. federal Health Insurance Portability and Accountability Act of 1996, or HIPAA, created new federal, civil and criminal statutes that prohibit among other actions, knowingly and willfully executing, or attempting to execute, a scheme to defraud any healthcare benefit program, including private third-party payors, knowingly and willfully embezzling or stealing from a healthcare benefit program, willfully obstructing a criminal investigation of a healthcare offense, and knowingly and willfully falsifying, concealing or covering up a material fact or making any materially false, fictitious or fraudulent statement in connection with the delivery of or payment for healthcare benefits, items or services. Similar to the federal Anti-Kickback Statute, a person or entity does not need to have actual knowledge of the statute or specific intent to violate it in order to have committed a violation;
- The Physician Payments Sunshine Act, enacted as part of the Affordable Care Act of 2010, among other things, imposes reporting requirements on manufacturers of FDA-approved drugs, devices, biologics and medical supplies covered by Medicare, Medicaid, or the Children's Health Insurance Program to report, on an annual basis, to the Centers for Medicare & Medicaid Services, or CMS, information related to payments and other transfers of value to physicians (defined to include doctors, dentists, optometrists, podiatrists, chiropractors and, beginning in 2022 for payments and other transfers of value provided in the previous year, certain advanced non-physician health care practitioners), teaching hospitals, as well as ownership and investment interests held by physicians and their immediate family members;

- HIPAA, as amended by the Health Information Technology for Economic and Clinical Health Act, or HITECH, and their respective implementing regulations impose specified requirements relating to the privacy, security and transmission of individually identifiable health information. Among other things, HITECH makes HIPAA's privacy and security standards directly applicable to "business associates," defined as independent contractors or agents of covered entities, which include certain healthcare providers, health plans, and healthcare clearinghouses, that create, receive, maintain or transmit protected health information in connection with providing a service for or on behalf of a covered entity. HITECH also increased the civil and criminal penalties that may be imposed against covered entities, business associates and possibly other persons, and gave state attorneys general new authority to file civil actions for damages or injunctions in federal courts to enforce HIPAA and seek attorney's fees and costs associated with pursuing federal civil actions;
- Analogous state and foreign laws and regulations, such as state anti-kickback and false claims laws, that may apply to sales or marketing arrangements and claims involving healthcare items or services reimbursed by non-governmental third-party payors, including private insurers;
- State laws that require pharmaceutical companies to comply with the pharmaceutical industry's voluntary compliance guidelines and the relevant compliance guidance promulgated by the federal government and may require drug manufacturers to report information related to payments and other transfers of value to physicians and other healthcare providers or marketing expenditures to the extent that those laws impose requirements that are more stringent than the Physician Payments Sunshine Act, as well as state and local laws that require the registration of pharmaceutical sales representatives; and
- State laws and foreign laws and regulations (particularly European Union laws regarding personal data relating to individuals based in Europe) that govern the privacy and security of health information in certain circumstances, many of which differ from each other in significant ways, thus complicating compliance efforts.

Moreover, in November 2020, the Department of Health and Human Services ("DHHS") finalized significant changes to the regulations implementing the Anti-Kickback Statute, as well as the Physician Self-Referral Law (Stark Law) and the civil monetary penalty rules regarding beneficiary inducements, with the goal of offering the healthcare industry more flexibility and reducing the regulatory burden associated with those fraud and abuse laws, particularly with respect to value-based arrangements among industry participants. As noted below under "Healthcare Reform," however, those final rules may be potentially overturned under the Congressional Review Act following the change in control of the legislative and executive branches in January 2021.

Ensuring that our current and future business arrangements with third parties comply with applicable healthcare laws and regulations involve substantial costs. It is possible that governmental authorities may conclude that our business practices may not comply with current or future statutes, regulations, agency guidance or case law involving applicable fraud and abuse or other healthcare laws and regulations. If our operations are found to be in violation of any of these laws or any other governmental regulations that may apply to us, we may be subject to significant civil, criminal and administrative penalties, including monetary damages, fines, disgorgement, imprisonment, loss of eligibility to obtain approvals from the FDA, exclusion from participation in government contracting, healthcare reimbursement or other government programs, including Medicare and Medicaid, reputational harm, diminished profits and future earnings, or additional reporting requirements if we become subject to a corporate integrity agreement or other agreement to resolve allegations of non-compliance with any of these laws, and the curtailment or restructuring of our operations. If any of the physicians or other healthcare providers or entities with whom we expect to do business is found to be not in compliance with applicable laws, they may be subject to criminal, civil or administrative sanctions, including exclusions from government funded healthcare programs.

Healthcare Reform and potential changes to drug and healthcare laws

In the United States and some foreign jurisdictions, there have been, and continue to be, several legislative and regulatory changes and proposed changes regarding the healthcare system that could prevent or delay marketing approval of product and therapeutic candidates, restrict or regulate post-approval activities, and affect the ability to profitably sell product and therapeutic candidates that obtain marketing approval. The FDA's and other regulatory authorities' policies may change and additional government regulations may be enacted that could prevent, limit or delay regulatory approval of our product and therapeutic candidates. If we are slow or unable to adapt to changes in existing requirements or the adoption of new requirements or policies, or if we are not able to maintain regulatory compliance, we may lose any marketing approval that we otherwise may have obtained and we may not achieve or sustain profitability, which would adversely affect our business, prospects, financial condition and results of operations. Moreover, among policy makers and payors in the United States and elsewhere, there is significant interest in promoting changes in healthcare systems with the stated goals of containing healthcare costs, improving quality and/or expanding access.

For example, the Patient Protection and Affordable Care Act, as amended by the Health Care and Education Reconciliation Act, or collectively the ACA, was enacted in March 2010 and has had a significant impact on the health care industry in the U.S. The ACA expanded coverage for the uninsured while at the same time containing overall healthcare costs. With regard to biopharmaceutical products, the ACA, among other things, addressed a new methodology by which rebates owed by manufacturers under the Medicaid Drug Rebate Program are calculated for drugs that are inhaled, infused, instilled, implanted or injected, increased the minimum Medicaid rebates owed by manufacturers under the Medicaid Drug Rebate Program and extended the rebate program to individuals enrolled in Medicaid managed care organizations, established annual fees on manufacturers of certain branded prescription drugs, and created a new Medicare Part D coverage gap discount program. Additionally, on December 20, 2019, President Trump signed the Further Consolidated Appropriations Act for 2020 into law (P.L. 116-94) that includes a piece of bipartisan legislation called the Creating and Restoring Equal Access to Equivalent Samples Act of 2019 or the "CREATES Act." The CREATES Act aims to address the concern articulated by both the FDA and others in the industry that some brand manufacturers have improperly restricted the distribution of their products, including by invoking the existence of a REMS for certain products, to deny generic product developers access to samples of brand products. Because generic product developers need samples to conduct certain comparative testing required by the FDA, some have attributed the inability to timely obtain samples as a cause of delay in the entry of generic products. To remedy this concern, the CREATES Act establishes a private cause of action that permits a generic product developer to sue the brand manufacturer to compel it to furnish the necessary samples on "commercially reasonable, market-based terms." Whether and how generic product developments will use this new pathway, as well as the likely outcome of any legal challenges to provisions of the CREATES Act, remain highly uncertain and its potential effects on future competition for COSELA or any of our other future commercial products are unknown.

As another example, the 2021 Consolidated Appropriations Act signed into law on December 27, 2020 incorporated extensive healthcare provisions and amendments to existing laws, including a requirement that all manufacturers of drugs and biological products covered under Medicare Part B report the product's average sales price, or ASP, to DHHS beginning on January 1, 2022, subject to enforcement via civil money penalties.

Since its enactment, there have been executive, judicial and Congressional challenges to certain aspects of the ACA and we expect there will be additional challenges and amendments to the ACA in the future. Members of the US Congress have indicated that they may continue to seek to modify, repeal or otherwise invalidate all, or certain provisions of, the ACA. For example, the Tax Cuts and Jobs Act, or TCJA, was enacted in 2017 and, among other things, removed penalties, starting January 1, 2019, for not complying with the ACA's individual mandate to carry health insurance, commonly referred to as the "individual mandate." In December 2018, a U.S. District Court Judge in the Northern District of Texas ruled that the individual mandate was a critical and inseparable feature of the ACA, and therefore, because it was repealed as part of the TCJA, the remaining provisions of the ACA were invalid and the law in its entirety was unconstitutional. In December 2019, the U.S. Court of Appeals for the Fifth Circuit upheld the District Court ruling that the individual mandate was unconstitutional but remanded the case back to the District Court to determine whether other reforms enacted as part of the ACA but not specifically related to the individual mandate or health insurance could be severed from the rest of the ACA so as not to be declared invalid as well. On March 2, 2020, the United States Supreme Court granted the petitions for writs of certiorari to review this case and allocated one hour for oral arguments, which occurred on November 10, 2020. A decision from the Supreme Court is expected to be issued in spring 2021. It is unclear how this litigation and other efforts to repeal and replace the ACA will impact the implementation of the ACA, the pharmaceutical industry more generally, and our business. Complying with any new legislation or reversing changes implemented under the ACA could be time-intensive and expensive, resulting in a material adverse effect on our business.

In addition, other legislative changes have been proposed and adopted in the United States since the ACA that affect health care expenditures. These changes include aggregate reductions to Medicare payments to providers of up to 2% per fiscal year pursuant to the Budget Control Act of 2011, which began in 2013 and will remain in effect through 2030 unless additional Congressional action is taken. The Coronavirus Aid, Relief, and Economic Security Act, or the CARES Act, which was signed into law on March 27, 2020 and was designed to provide financial support and resources to individuals and businesses affected by the COVID-19 pandemic, suspended the 2% Medicare sequester from May 1, 2020 through December 31, 2020, and extended the sequester by one year, through 2030, in order to offset the added expense of the 2020 cancellation. The 2021 Consolidated Appropriations Act was subsequently signed into law on December 27, 2020 and extends the CARES Act suspension period to March 31, 2021.

Moreover, there has been heightened governmental scrutiny over the manner in which manufacturers set prices for their marketed products, which has resulted in several Congressional inquiries and proposed and enacted federal and state legislation designed to, among other things, bring more transparency to product pricing, review the relationship between pricing and manufacturer patient programs, and reform government program reimbursement methodologies for drug products. DHHS, has solicited feedback on some of various measures intended to lower drug prices and reduce the out of pocket costs of drugs and implemented others under its existing authority. For example, in May 2019, DHHS issued a final rule to allow Medicare Advantage plans the option to use step therapy for Part B drugs beginning January 1, 2020. This final rule codified a DHHS policy change that was effective January 1, 2019. As part of the Trump Administration's so-called "Blueprint" to lower drug prices, DHHS and FDA also released on July 31, 2019 their Safe Importation Action Plan proposing two different pathways for the importation of foreign drug products. One pathway focuses on the importation of certain drugs from Canada, which required the agencies to go through notice-and-comment rulemaking, while the second pathway allows manufacturers to distribute their drugs manufactured abroad and was released as agency policy in an FDA guidance document first issued in December 2019. FDA's notice of proposed rulemaking to implement a system whereby state governmental entities could lawfully import and distribute prescription drugs sourced from Canada was published at the end of December 2019 and in September 2020, the rulemaking was finalized by FDA. Those new regulations became effective on November 30, 2020, although the impact of such future programs is uncertain, in part because lawsuits have been filed challenging the government's authority to promulgate them. The final regulations may also be vulnerable to being overturned by a joint resolution of disapproval from Congress under the procedures set forth in the Congressional Review Act, which could be applied to regulatory actions taken by the Trump Administration on or after August 21, 2020 (i.e., in the last 60 days of legislative session of the 116th Congress). Congress and the executive branch have each indicated that it will continue to seek new legislative and/or administrative measures to control drug costs, making this area subject to ongoing uncertainty. In addition, the probability of success of other policies enacted over the final months of the Trump Administration and their impact on the U.S. prescription drug marketplace is unknown. There are likely to be political and legal challenges associated with implementing these reforms as they are currently envisioned, and the January 20, 2021 transition to a new Democrat-led presidential administration created further uncertainty. Following his inauguration, President Biden took immediate steps to order a regulatory freeze on all pending substantive executive actions in order to permit incoming department and agency heads to review whether questions of fact, policy, and law may be implicated and to determine how to proceed.

Individual states in the United States have also increasingly passed legislation and implemented regulations designed to control pharmaceutical product pricing, including price or patient reimbursement constraints, discounts, restrictions on certain product access and marketing cost disclosure and transparency measures, and, in some cases, designed to encourage importation from other countries and bulk purchasing. In December 2020, the U.S. Supreme Court held unanimously that federal law does not preempt the states' ability to regulate pharmaceutical benefit managers (PBMs) and other members of the health care and pharmaceutical supply chain, an important decision that may lead to further and more aggressive efforts by states in this area.

We cannot predict the likelihood, nature or extent of government regulation that may arise from future legislation or administrative or executive action, either in the United States or abroad. We expect that additional state and federal healthcare reform measures will be adopted in the future, any of which could limit the amounts that federal and state governments will pay for healthcare products and services, including COSELA and any future products for which we secure marketing approval.

Human Capital

As of December 31, 2022, we had 170 full-time employees, including 47 in research and development and 123 in selling, general and administrative functions. Of these full-time employees, 34 had an MD, PhD or PharmD. We have no collective bargaining agreements with our employees, and we have not experienced any work stoppages. We expect headcount growth to continue for the foreseeable future, particularly as we continue to develop our products and commercialize COSELA. We consider our relations with our employees to be good.

Diversity and Inclusion

Diversity and inclusion are an important part of our culture. We seek to build a diverse and inclusive workplace where we can leverage our collective cognitive and other diversity. We conduct routine pay equity analysis to determine we have pay equity across gender and race in similar jobs, accounting for factors such as role, experience, education and level. We also have a Culture Committee and a Diversity, Equity, and Inclusion (DEI) Committee comprised of employees across departments, who focus on employee engagement, building a more diverse and inclusive organization, and other initiatives throughout the year.

Compensation and Benefits

We offer competitive compensation to attract and retain the best people. Our total compensation package includes market-competitive salary, bonuses, and equity. We offer full-time employees equity at the time of hire and through annual equity grants because we want them to consider themselves to have an ownership stake in the company and to be committed to our long-term success. We offer a wide range of benefits across areas such as health, family, finance, community, and time off, including healthcare and wellness benefits, a 401(k) plan, access to legal services, and family leave.

Protection and Support of our Employees During the COVID-19 Pandemic

We established a COVID-19 response team which continually monitors the impact of COVID-19 on our operations. The COVID-19 response team manages our workplace protocols that govern our employees' use of our office. To mitigate the impact of COVID-19 on our business, we put in place the following safety measures for our employees, patients, healthcare professionals, and suppliers to limit exposure: We substantially restricted travel, supplied personal protective equipment to employees, limited access to our headquarters and asked most of our staff to work remotely. We supported our employees by maintaining base compensation throughout the year, and our year-end practices around merit, bonus and equity were not impacted.

As of January 1, 2023, the majority of our employees are still working remotely, which may negatively impact our ability to conduct research and development activities, engage in sales-related initiatives, or efficiently conduct day-to-day operations. In March 2023, we expect our headquarters-based employees will return to the office on a 3-2 hybrid model (3 days in office, 2 days remote). In addition, we added bandwidth and VPN capacity to our infrastructure to facilitate remote work arrangements. We will continue to monitor the impact of COVID-19 on our operations, including how it will impact our employees, clinical trials, development programs, supply chain, and other aspects of our operations, and report to our Board of Directors regularly on the progress of our response to the COVID-19 outbreak. Throughout the outbreak, we continue to build a strong supportive culture around values of patients first, integrity, respect and collaboration. Our efforts to develop our culture will last far beyond this pandemic.

Available Information

Our internet address is www.g1therapeutics.com. Our annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, and all amendments to those reports, are available to you free of charge through the Investors section of our website as soon as reasonably practicable after such materials have been electronically filed with, or furnished to, the Securities and Exchange Commission, or the SEC. The information found on our website is not part of this or any other report we file with, or furnish to, the SEC.

In addition, the SEC maintains an internet site that contains reports, proxy and information statements, and other information regarding issuers that file electronically with the SEC. Our filings with the SEC may be accessed through the SEC's website at <http://www.sec.gov>.

Item 1A. Risk Factors.

Investing in our common stock involves a high degree of risk. You should carefully consider the risks and uncertainties described below, together with all of the other information in this Annual Report, including our financial statements and related notes, before investing in our common stock. The risks and uncertainties described below are not the only ones we face. Additional risks and uncertainties that we are unaware of, or that we currently believe are not material, may also become important factors that affect us. If any of the following risks occur, our business, operating results and prospects could be materially harmed. In that event, the price of our common stock could decline, and you could lose part or all of your investment.

Summary Risk Factors

Below is a summary of the principal risk factors in each risk category that could adversely affect our business, operations, and financial results.

Risks related to the commercialization of COSELA

- We depend almost entirely on the commercial success of COSELA.
- COSELA may fail to achieve the degree of market acceptance for commercial success.
- We may not be able to effectively sell or market COSELA, or generate substantial product revenues.
- COSELA may become subject to unfavorable pricing regulations or third-party coverage and reimbursement policies.
- We face substantial competition.
- We must comply with post-approval development and regulatory requirements to maintain FDA approval of COSELA.
- Product liability lawsuits against us could cause us to incur substantial liabilities.
- If we violate the guidelines pertaining to promotion and advertising, we may be subject to disciplinary action.
- Our relationships with customers and third-party payors will be subject to applicable anti-kickback, fraud and abuse and other healthcare laws and regulations, which could expose us to criminal sanctions, civil penalties, contractual damages, reputational harm and diminished profits and future earnings.

Risks related to our financial position and need for additional capital:

- We may need additional funding.
- We expect to incur losses for the foreseeable future and may never achieve or maintain profitability.
- Raising additional capital may cause dilution to our stockholders, restrict our operations or require us to relinquish rights.
- Our limited operating history may make it difficult for you to evaluate the success of our business.
- Our financial condition raises substantial doubt as to our ability to continue as a going concern.

Risks related to development of COSELA:

- If we are unable to successfully develop and commercialize COSELA, our business will be materially harmed.
- Delays in the enrollment of patients in clinical trials, may delay or prevent our plans.
- Initial success in our ongoing clinical trials may not be indicative of results obtained when these trials are completed.
- We may incur additional costs or experience delays in completing the development and may ultimately be unable to obtain the approval COSELA in additional indications.

Risks related to additional marketing approval of COSELA:

- If we are not able to obtain, or if there are delays in obtaining, the additional required marketing approvals, we will not be able to broadly commercialize COSELA, and our ability to generate revenue will be materially impaired.
- COSELA may cause undesirable side effects that could delay or prevent additional marketing approvals, limit the commercial profile of additional approved labels, or result in significant negative consequences following additional marketing approvals, if any.

- COSELA is subject to extensive post-marketing regulatory requirements and could be subject to additional post-marketing restrictions or withdrawal from the market, and we may be subject to penalties if we fail to comply with regulatory requirements or if we experience unanticipated problems with COSELA.

Risks related to employee matters, managing growth and other risks related to our business:

- We currently have a limited number of employees, and our future success depends on our ability to retain key executives and to attract, retain and motivate qualified personnel.
- We face risks related to health epidemics and outbreaks, including the novel coronavirus (COVID-19), which could significantly disrupt our preclinical studies and clinical trials.
- We expect to potentially implement sales, marketing and distribution capabilities, and as a result, we may encounter difficulties in managing our growth, which could disrupt our operations.

Risks related to our dependence on third parties:

- We rely on, and expect to continue to rely on, third parties to conduct our clinical trials for COSELA. If these third parties do not successfully carry out their contractual duties, comply with regulatory requirements or meet expected deadlines, we may not be able to obtain additional marketing approval for or commercialize COSELA, and our business could be substantially harmed.
- We contract with third parties for the manufacture of COSELA for preclinical studies and clinical trials. This reliance on third parties increases the risk that we will not have sufficient quantities of COSELA or drugs or such quantities at an acceptable cost, which could delay, prevent or impair our development or commercialization efforts.
- The third parties upon which we rely for the supply of the drug substance, and drug products are our sole sources of supply and have limited capacity, and the loss of any of these suppliers could harm our business.

Risks related to our intellectual property:

- If we are unable to obtain and maintain intellectual property protection for our technology and products, or if the scope of the intellectual property protection obtained is not sufficiently broad, our competitors could commercialize technology and products similar or identical to ours, and our ability to successfully commercialize our technology and products may be impaired and, if we infringe the valid patent rights of others, we may be prevented from making, using or selling our products or may be subject to damages or penalties.
- We may become involved in administrative adversarial proceedings in the U.S. PTO or in the patent offices of foreign countries brought by a third party to attempt to cancel or invalidate our patent rights, which could be expensive, time consuming and cause a loss of patent rights.
- We may have to file one or more lawsuits in court to prevent a third party from selling a product or using a product in a manner that infringes our patent, which could be expensive, time consuming and unsuccessful, and ultimately result in the loss of our proprietary market.

Risks related to our common stock:

- The price of our common stock may be volatile and fluctuate substantially.
- Provisions in our corporate charter documents and under Delaware law could make an acquisition of our company, which may be beneficial to our stockholders, more difficult and may prevent attempts by our stockholders to replace or remove our current management.

For a more complete discussion of the material risks facing our business, see below.

Risks related to the commercialization of COSELA

We depend almost entirely on the commercial success of COSELA. There is no assurance that our commercialization efforts in the U.S. with respect to COSELA will be successful or that we will be able to generate revenues at the levels or within the timing we expect or at the levels or within the timing necessary to support our goals.

In 2022, we have generated \$31.3 million in revenues from the sale of COSELA. COSELA was approved by the FDA in February 2021 and was commercially available in the U.S. on March 2, 2021. There is no assurance that the sales of COSELA will grow on the timing we anticipate. We may encounter delays or hurdles related to our sales efforts that affect amount of revenue generated and the timing of such revenue.

Our business currently depends heavily on our ability to successfully commercialize COSELA in the U.S. to treat patients with ES-SCLC. We may never be able to successfully commercialize COSELA or meet our expectations with respect to revenues. Prior to COSELA, we never marketed, sold or distributed for commercial use any pharmaceutical product. There is no guarantee that the infrastructure, systems, processes, policies, personnel, relationships and materials we have built for the commercialization of COSELA in the U.S. will be sufficient for us to achieve success at the levels we expect. Additionally, healthcare providers may not accept a new treatment paradigm for patients with ES-SCLC. We may also encounter challenges related to reimbursement of COSELA, even as we have had positive early indications from payors, including potential limitations in the scope, breadth, availability, or amount of reimbursement covering COSELA. Similarly, healthcare settings or patients may determine that the financial burdens of treatment are not acceptable. Our results may also be negatively impacted if we have not adequately sized our field teams or our physician segmentation and targeting strategy is inadequate or if we encounter deficiencies or inefficiencies in our infrastructure or processes. Any of these issues could impair our ability to successfully commercialize COSELA or to generate substantial revenues or profits or to meet our expectations with respect to the amount or timing of revenue or profits. Any issues or hurdles related to our commercialization efforts may materially adversely affect our business, results of operations, financial condition and prospects. There is no guarantee that we will be successful in our commercialization efforts with respect to COSELA.

Our COSELA commercialization efforts may fail to achieve the degree of market acceptance by physicians, patients, third-party payors and others in the medical community necessary for commercial success.

Our COSELA commercialization efforts may fail to gain sufficient market acceptance by physicians, patients, third-party payors and others in the medical community. If COSELA does not achieve an adequate level of acceptance, we may not generate significant product revenues and we may not become profitable. The degree of market acceptance of COSELA and will depend on a number of factors, including:

- the timing of our receipt of any additional marketing approvals;
- the terms of any approvals and the countries in which approvals are obtained;
- the efficacy and safety and potential advantages and disadvantages compared to alternative treatments;
- the prevalence and severity of any side effects associated with COSELA;
- adverse publicity about COSELA, including the discontinuation of the trial in first line metastatic colorectal cancer, or favorable publicity about competing products;
- our ability to offer COSELA for sale at competitive prices;
- the convenience and ease of administration compared to alternative treatments;
- the willingness of the target patient population to try new therapies and of physicians to prescribe these therapies;
- the success of our physician education programs;
- the strength of our marketing and distribution support;
- the availability of third-party coverage and adequate reimbursement, including patient cost-sharing programs such as copays and deductibles; and
- any restrictions on the use of COSELA together with other medications.

If COSELA fails to achieve market acceptance, it could have a material and adverse effect on our business, financial condition, results of operation and prospects.

If we are unable to enhance our sales or marketing capabilities or enter into agreements with third parties to sell or market COSELA, we may not be able to effectively sell or market COSELA, if approved, or generate substantial product revenues.

To achieve commercial success for COSELA, we must continue to develop our sales, marketing, managerial, and other non-technical capabilities or make arrangements with third parties to perform these services. There are risks involved with both maintaining our own sales and marketing capabilities and entering into arrangements with third parties to perform these services.

Factors that may inhibit our efforts to commercialize COSELA on our own include:

- our inability to retain adequate numbers of effective sales and marketing personnel;
- the inability of sales personnel to obtain access to physicians or persuade adequate numbers of physicians to prescribe COSELA;
- the lack of complementary drugs to be offered by sales personnel, which may put us at a competitive disadvantage relative to companies with more extensive product lines; and
- unforeseen costs and expenses associated with creating an independent sales and marketing organization.

In addition, we may not be successful in entering into arrangements with third parties to market and distribute COSELA or may be unable to do so when needed or on terms that are favorable to us. We likely will have little control over such third parties, and any of them may fail to devote the necessary resources and attention to market and distribute our products effectively. If we do not establish sales, marketing, and distribution capabilities successfully, either on our own or in collaboration with third parties, we will not be successful in commercializing COSELA to receive marketing approval or any such commercialization may experience delays or limitations. If we are not successful in commercializing COSELA, either on our own or through collaborations with one or more third parties, our business, results of operations, financial condition and prospects will be materially adversely affected.

If market opportunities for COSELA are smaller than we estimate or if any FDA approval that we receive for additional indications for COSELA are based on a narrower definition of the patient population, our revenues may be substantially lower than we estimate.

We are focused on the development and commercialization of COSELA, the first and only therapy indicated to proactively help protect bone marrow from the damage of chemotherapy. We have estimated the number of people who have cancer or will develop cancer and have estimated those who could benefit from COSELA. However, our estimates, which have been developed from a number of sources, may ultimately be inaccurate. Our estimates may change because of novel studies, the number of potential patients may be fewer than contemplated, the additional indications for COSELA approved by FDA may be based on a narrower definition of the patient population than we have estimated, patients may not be receptive to treatment with COSELA, patients may select our competitors' products instead of ours, or it may be more difficult to identify the potential patient population than anticipated, all of which could cause the market opportunities for COSELA to be more limited than we predicted and adversely impact our business and profitability.

Even if we are able to commercialize COSELA, it may become subject to unfavorable pricing regulations or third-party coverage and reimbursement policies, which would harm our business.

The regulations that govern marketing approvals, pricing and reimbursement for new drugs vary widely from country to country. Some countries require approval of the sale price of a drug before it can be marketed. In many countries, the pricing review period begins after marketing approval is granted. In some foreign markets, prescription pharmaceutical pricing remains subject to continuing governmental control even after initial approval is granted. As a result, we might obtain marketing approval for COSELA in a particular country, but then be subject to price regulations that delay our commercial launch, possibly for lengthy time periods, and negatively impact the revenues we are able to generate from the sale of COSELA in that country. Adverse pricing limitations may hinder our ability to recoup our investment in COSELA, even if marketing approval is obtained.

Our ability to commercialize COSELA successfully also will depend in part on the extent to which coverage and reimbursement for COSELA and related treatments will be available from government authorities, private health insurers and other organizations. In the United States, the principal decisions about reimbursement for new medicines are typically made by the CMS, an agency within the U.S. Department of Health and Human Services, as CMS decides whether and to what extent a new medicine will be covered and reimbursed under Medicare. Private payors tend to follow CMS to a substantial degree. It is difficult to predict what CMS will decide with respect to reimbursement. Reimbursement agencies in Europe may be more conservative than CMS. For example, a number of cancer drugs are generally covered and paid for in the United States, but have not been approved for reimbursement in certain European countries. A primary trend in the U.S. healthcare industry and elsewhere is cost containment. Government authorities and third-party payors have attempted to control costs by limiting coverage and the amount of payments for particular drugs. Increasingly, third-party payors are requiring that drug companies provide them with predetermined discounts from list prices and are challenging the prices charged for drugs. We cannot be sure that coverage will be available for COSELA and, if coverage is available, the level of payments. Reimbursement may impact the demand for, or the price of, COSELA. If reimbursement is not available or is available only to limited levels, we may not be able to successfully commercialize COSELA.

In addition to CMS and private payors, professional organizations such as the National Comprehensive Cancer Network and the American Society of Clinical Oncology can influence decisions about reimbursement for medicines by determining standards of care. Many private payors contract with commercial vendors who sell software that provide guidelines that attempt to limit utilization of, and therefore reimbursement for, certain products deemed to provide limited benefit to existing alternatives. Such organizations may set guidelines that limit reimbursement or utilization of our products.

There may be significant delays in obtaining reimbursement for newly approved drugs, and coverage may be more limited than the purposes for which the drug is approved by the FDA or similar regulatory authorities outside the United States. Moreover, eligibility for reimbursement does not imply that any drug will be paid for in all cases or at a rate that covers our costs, including research, development, manufacture, sale and distribution. Interim reimbursement levels for new drugs, if applicable, may also not be sufficient to cover our costs and may not be made permanent. Reimbursement rates may vary according to the use of the drug and the clinical setting in which it is used, may be based on reimbursement levels already set for lower cost drugs and may be incorporated into existing payments for other services. Net prices for drugs may be reduced by mandatory discounts or rebates required by government healthcare programs or private payors and by any future relaxation of laws that presently restrict imports of drugs from countries where they may be sold at lower prices than in the United States. Our inability to promptly obtain coverage and profitable payment rates from both government-funded and private payors for any approved drugs that we develop could have a material adverse effect on our operating results, our ability to raise capital needed to commercialize drugs and our overall financial condition.

Product liability lawsuits against us could cause us to incur substantial liabilities and to limit commercialization of any products that we may develop.

We face an inherent risk of product liability exposure related to the evaluation of COSELA in human clinical trials and will face an even greater risk if we commercially sell any products that we may develop. If we cannot successfully defend ourselves against claims that COSELA caused injuries, we will incur substantial liabilities. Regardless of merit or eventual outcome, liability claims may result in:

- decreased demand for COSELA or products that we may develop;
- injury to our reputation and significant negative media attention;
- withdrawal of clinical trial participants;
- significant costs to defend the related litigation;
- substantial monetary awards to trial participants or patients;
- loss of revenue;
- reduced resources of our management to pursue our business strategy; and
- the inability to successfully commercialize any products that we may develop.

We currently hold \$10.0 million in product liability insurance coverage in the aggregate, with a per incident limit of \$10.0 million, which may not be adequate to cover all liabilities that we may incur. We may need to increase our insurance coverage as we expand our clinical trials. Insurance coverage is increasingly expensive. We may not be able to maintain insurance coverage at a reasonable cost or in an amount adequate to satisfy any liability that may arise.

If we or any of our future partners violate the guidelines pertaining to promotion and advertising of COSELA, we or they may be subject to disciplinary action by the FDA's Office of Prescription Drug Promotion (OPDP) or other regulatory authorities.

The FDA's Office of Prescription Drug Promotion (OPDP), is responsible for reviewing prescription drug advertising and promotional labeling to ensure that the information contained in these materials is not false or misleading. There are specific disclosure requirements, and the applicable regulations mandate that advertisements cannot be false or misleading or omit material facts about the product. Prescription drug promotional materials must present a fair balance between the drug's effectiveness and the risks associated with its use. Most warning letters from OPDP cite inadequate disclosure of risk information.

OPDP prioritizes its actions based on the degree of risk to the public health, and often focuses on newly introduced drugs and those associated with significant health risks. There are two types of letters that OPDP typically sends to companies that violate its drug advertising and promotional guidelines: untitled letters and warning letters. In the case of an untitled letter, OPDP typically alerts the drug company of the violation and issues a directive to refrain from future violations, but does not typically demand other corrective action. A warning letter is typically issued in cases that are more serious or where the company is a repeat offender. Although we have not received any such letters from OPDP, we or any of our future partners may inadvertently violate OPDP's guidelines in the future and be subject to an OPDP untitled letter or warning letter, which may have a negative impact on our business.

We face substantial competition, which may result in others discovering, developing or commercializing competing products before or more successfully than we do.

The development and commercialization of new drug products is highly competitive. We face competition with respect to COSELA from major pharmaceutical companies, specialty pharmaceutical companies and biotechnology companies worldwide. There are a number of large pharmaceutical and biotechnology companies that currently market and sell products or are pursuing the development of products for the treatment of the disease indications for which we are developing COSELA. Some of these competitive products and therapies are based on scientific approaches that are the same as or similar to our approach, and others are based on entirely different approaches. Potential competitors also include academic institutions, government agencies and other public and private research organizations that conduct research, seek patent protection and establish collaborative arrangements for research, development, manufacturing and commercialization.

Specifically, there are a large number of companies developing or marketing treatments for cancer, including many major pharmaceutical and biotechnology companies. COSELA competes with (a) existing growth factor support treatments, and (b) multiple approved drugs or drugs that may be approved in the future for indications for which we may develop COSELA.

Our commercial opportunity could be reduced or eliminated if our competitors develop and commercialize products that are safer, more effective, have fewer or less severe side effects, are more convenient or are less expensive than any products that we may develop. Our competitors also may obtain FDA or other marketing approval for their products more rapidly than we may obtain approval for additional indications, which could result in our competitors establishing a strong market position before we are able to enter the market and/or slow our marketing approval. Some of the important competitive factors affecting the success of all COSELA are likely to be their efficacy, safety, convenience, price and the availability of reimbursement from government and other third-party payors.

Many of the companies against which we are competing or against which we may compete in the future have significantly greater financial resources and expertise in research and development, manufacturing, preclinical studies, conducting clinical trials, obtaining marketing approvals and marketing approved products than we do. Mergers and acquisitions in the pharmaceutical and biotechnology industries may result in even more resources being concentrated among a smaller number of our competitors. Smaller and early-stage companies may also prove to be significant competitors, particularly through collaborative arrangements with large and established companies. These third parties compete with us in recruiting and retaining qualified scientific and management personnel, establishing clinical trial sites and patient registration for clinical trials, as well as in acquiring technologies complementary to, or necessary for, our programs.

Even though COSELA received approval by the FDA, we must still comply with post-approval development and regulatory requirements to maintain that approval and, if we fail to do so, FDA could withdraw its approval of COSELA, which would lead to substantially lower revenues.

As a condition of the approval of COSELA, we are required to (i) conduct a study in a sufficient number of adult patients with extensive stage-small cell lung cancer undergoing chemotherapy to evaluate the impact of COSELA on disease progression or survival in patients with chemotherapy-induced myelosuppression treated with a platinum/etoposide-containing regimen or topotecan-containing regimen with at least 2 years of follow-up (ii) conduct an in vitro metabolism study and CYP phenotyping study at clinically relevant concentrations to appropriately determine major metabolic pathway for COSELA. Characterize the formation of the major circulating metabolite of trilaciclib, M8, using the purified M8 compound with a validated bioanalytical method), (iii) conduct an in vitro Drug-Drug Interaction (DDI) study to evaluate the major circulating metabolite of COSELA, M8, as an inhibitor for major CYP enzymes and drug transporters, and (iv) conduct a clinical trial to evaluate the effect of hepatic impairment on the pharmacokinetics and safety of COSELA.

The FDA may withdraw approval of COSELA if, for example, the trial required to verify the predicted clinical benefit fails to verify such benefit or does not demonstrate sufficient clinical benefit to justify the risks associated with COSELA. The FDA may also withdraw approval if other evidence demonstrates that COSELA is not shown to be safe or effective under the conditions of use, we fail to conduct any required post approval trial of COSELA with due diligence or we disseminate false or misleading promotional materials relating thereto. With the exception of the clinical study noted in (i) above, we have completed the other requirements and submitted them to the FDA for review.

Our relationships with customers and third-party payors are subject to applicable anti-kickback, fraud and abuse and other healthcare laws and regulations, which could expose us to criminal sanctions, civil penalties, contractual damages, reputational harm and diminished profits and future earnings.

As we are commercializing COSELA, we are subject to additional healthcare statutory and regulatory requirements and enforcement by federal government and the states and foreign governments in the jurisdictions in which we conduct our business. Healthcare providers, physicians and third-party payors play a primary role in the recommendation and prescription of COSELA. Our arrangements with third-party payors and customers expose us to broadly applicable fraud and abuse and other healthcare laws and regulations that constrain the business or financial arrangements and relationships through which we market, sell and distribute any products for which we obtain marketing approval. Restrictions under applicable federal and state healthcare laws and regulations include the following:

- the federal Anti-Kickback Statute prohibits, among other things, persons from knowingly and willfully soliciting, offering, receiving or paying remuneration, directly or indirectly, in cash or in kind, to induce or reward, or in return for, either the referral of an individual for, or the purchase, order or recommendation of, any good or service, for which payment may be made under a federal healthcare program such as Medicare and Medicaid; a person or entity does not need to have actual knowledge of the statute or specific intent to violate it in order to have committed a violation;
- the federal false claims laws impose criminal and civil penalties, including civil whistleblower or qui tam actions, against individuals or entities for knowingly presenting, or causing to be presented, to the federal government, claims for payment that are false or fraudulent or making a false statement to avoid, decrease or conceal an obligation to pay money to the federal government; in addition, the government may assert that a claim including items and services resulting from a violation of the federal Anti-Kickback Statute constitutes a false or fraudulent claim for purposes of the False Claims Act;
- the federal Health Insurance Portability and Accountability Act of 1996, or HIPAA, imposes criminal and civil liability for executing a scheme to defraud any healthcare benefit program, or knowingly and willfully falsifying, concealing or covering up a material fact or making any materially false statement in connection with the delivery of or payment for healthcare benefits, items or services; similar to the federal Anti-Kickback Statute, a person or entity does not need to have actual knowledge of the statute or specific intent to violate it in order to have committed a violation;

- the federal physician payment transparency requirements, sometimes referred to as the “Sunshine Act” under the Patient Protection and Affordable Care Act, as amended by the Health Care and Education Reconciliation Act of 2010, or collectively the ACA, require manufacturers of drugs, devices, biologics and medical supplies that are reimbursable under Medicare, Medicaid, or the Children’s Health Insurance Program to report to the Centers for Medicare & Medicaid Services, or CMS, information related to payments and other transfers of value to physicians and teaching hospitals and the ownership and investment interests of physicians and their immediate family members in such manufacturers;
- HIPAA, as amended by the Health Information Technology for Economic and Clinical Health Act and its implementing regulations, which also imposes obligations on certain covered entity healthcare providers, health plans, and healthcare clearinghouses as well as their business associates that perform certain services involving the use or disclosure of individually identifiable health information, including mandatory contractual terms, with respect to safeguarding the privacy, security and transmission of individually identifiable health information;
- analogous state and foreign laws and regulations, such as state anti-kickback and false claims laws, may apply to sales or marketing arrangements and claims involving healthcare items or services reimbursed by non-governmental third-party payors, including private insurers;
- some state laws require pharmaceutical companies to comply with the pharmaceutical industry’s voluntary compliance guidelines and the relevant compliance guidance promulgated by the federal government and may require drug manufacturers to report information related to payments and other transfers of value to physicians and other healthcare providers or marketing expenditures; and
- state and foreign laws also govern the privacy and security of health information in certain circumstances, many of which differ from each other in significant ways and often are not preempted by HIPAA, thus complicating compliance efforts.

Efforts to ensure that our business arrangements with third parties comply with applicable healthcare laws and regulations involve substantial costs. It is possible that governmental authorities may conclude that our business practices may not comply with current or future statutes, regulations or case law involving applicable fraud and abuse or other healthcare laws and regulations. If our operations are found to be in violation of any of these laws or any other governmental regulations that may apply to us, we may be subject to significant civil, criminal and administrative penalties, damages, fines, imprisonment, exclusion of products from government funded healthcare programs, such as Medicare and Medicaid, and the curtailment or restructuring of our operations. If any of the physicians or other healthcare providers or entities with whom we expect to do business is found to be not in compliance with applicable laws, they may be subject to criminal, civil or administrative sanctions, including exclusions from government funded healthcare programs.

Governments outside the United States tend to impose strict price controls, which may adversely affect our revenues, if any.

In some countries, particularly the countries of the European Union, the pricing of prescription pharmaceuticals is subject to governmental control. In these countries, pricing negotiations with governmental authorities can take considerable time after the receipt of marketing approval for a product. To obtain reimbursement or pricing approval in some countries, we may be required to conduct a clinical trial that compares the cost-effectiveness of COSELA to other available therapies. If reimbursement of COSELA is unavailable or limited in scope or amount, or if pricing is set at unsatisfactory levels, our business could be harmed, possibly materially.

Risks related to our financial position and need for additional capital

We will need substantial additional funding. If we are unable to raise capital when needed, we would be compelled to delay, reduce or eliminate our product development programs or commercialization efforts.

The development of pharmaceutical drugs is a capital-intensive venture. We expect our expenses to continue to increase along with our ongoing activities, particularly as we support commercial activities and conduct larger-scale clinical trials of, and seek marketing approval for, COSELA in additional indications. For example, we expect to incur significant COSELA commercialization expenses related to product sales, marketing, manufacturing and distribution. We may also need to raise additional funds sooner if we choose to pursue additional indications and/or geographies for COSELA or otherwise expand more rapidly than we presently anticipate. Furthermore, we have incurred, and expect to continue to incur, additional costs associated with operating as a public company. Accordingly, we will need to obtain substantial additional funding in connection with our continuing operations. If we are unable to raise capital when needed or on attractive terms, we would be forced to delay, reduce or eliminate our clinical programs, development efforts or any future commercialization efforts.

As of December 31, 2022, we had cash and cash equivalents of \$94.6 million and marketable securities of \$50.5 million. We believe that, based upon our current operating plan, our existing capital resources will not be sufficient to fund our planned operations and remain in compliance with our objective financial covenants for the next 12 months from the date of issuance of these financial statements. Our future capital requirements and the period for which we expect our existing resources to support our operations may vary significantly from what we expect. Our monthly spending levels vary based on new and ongoing commercialization expenses, research and development, and other corporate activities. Because the length of time and activities associated with successful commercialization and research and development of COSELA is highly uncertain, we are unable to estimate the actual funds we will require for commercialization and development of COSELA. In addition, our future capital requirements will depend on many factors, and could increase significantly as a result of many factors, including:

- the costs of commercialization activities, including product sales, marketing, manufacturing and distribution of COSELA for which we receive marketing approval;
- the scope, progress, results and costs of development, laboratory testing and clinical trials for COSELA;
- the scope, prioritization and number of our research and development programs;
- the costs, timing and outcome of regulatory review of COSELA;
- the extent to which we enter into non-exclusive, jointly funded clinical research collaboration arrangements, if any, for the development of COSELA in combination with other companies' products;
- our ability to establish collaboration arrangements for the development of COSELA on favorable terms, if at all;
- the achievement of milestones or occurrence of other developments that trigger payments under our license agreement and any collaboration agreements into which we may enter, if any;
- the extent to which we are obligated to reimburse, or entitled to reimbursement of, clinical trial costs under future collaboration agreements, if any;
- the extent to which we acquire or in-license product candidates and technologies, and the terms of such in-licenses;
- revenue received from commercial sales of COSELA and any future product candidates; and
- the costs of preparing, filing and prosecuting patent applications, maintaining and enforcing our intellectual property rights and defending intellectual property-related claims.

Conducting studies and clinical trials is a time-consuming, expensive and uncertain process that can take years to complete, and we may never generate the necessary data or results required to obtain marketing approval and achieve product sales. In addition, COSELA and our future product candidates, if approved, may not achieve commercial success. Our commercial revenues, if any, will be derived from sales of products that may not be commercially available for some time, if ever. Accordingly, we will need to continue to rely on additional financing to achieve our business objectives.

Any additional fundraising efforts may divert our management from their day-to-day activities, which may adversely affect our ability to develop and commercialize COSELA and future product candidates. Volatility in the financial markets have generally made equity and debt financing more difficult to obtain and may have a material adverse effect on our ability to meet our fundraising needs. We cannot guarantee that future financing will be available in sufficient amounts or on terms acceptable to us, if at all. Moreover, the terms of any financing may adversely affect the holdings or the rights of our stockholders and the issuance of additional securities, whether equity or debt, by us, or the possibility of such issuance, may cause the market price of our shares to decline.

If we are unable to obtain funding on a timely basis, we may be required to significantly curtail, delay or discontinue the commercialization of COSELA or any one or more of our research or development programs or be unable to expand our operations or otherwise capitalize on our business opportunities, as desired, which could materially affect our business, financial condition and results of operations.

We have incurred significant operating losses since our inception. We expect to incur losses for the foreseeable future and may never achieve or maintain profitability.

We have incurred significant operating losses since our inception. We incurred net losses of \$147.6 million for the year ended December 31, 2022, \$148.4 million for the year ended December 31, 2021, and \$99.3 million for the year ended December 31, 2020. As of December 31, 2022, we had an accumulated deficit of \$732.0 million. It may be several years, if ever, before we become profitable. To date, we have financed our operations through sales of our preferred and common stock, license agreements and debt. We expect to continue to incur significant expenses and increasing operating losses for the foreseeable future.

To date, inflation has not had a material impact on our business, but if the global inflationary trends continue, we expect appreciable increases in clinical trial, selling, labor, and other operating costs. If our costs were to become subject to significant inflationary pressures, we may not be able to fully offset such higher costs through price increases of our product. Our inability or failure to do so could adversely affect our business, financial condition and results of operations.

In addition, currently there is a conflict involving Russia and Ukraine, and this may impact our contract research organizations, clinical data management organizations, and clinical investigators' ability to conduct certain of our trials in Eastern European countries, and may prevent us from obtaining data on patients already enrolled at sites in these countries. This could negatively impact the completion of our clinical trials and/or analyses of clinical results, which may increase our product development costs and materially harm our business.

The net losses we incur may fluctuate significantly from quarter to quarter. We anticipate that our expenses will increase substantially as we:

- continue development of trilaciclib, including initiations of additional clinical trials
- identify and develop new product candidates;
- seek additional marketing approvals for trilaciclib upon successful completion of clinical trials;
- grow our sales, marketing and distribution infrastructure to commercialize COSELA and any future products for which we may obtain marketing approval;
- achieve market acceptance of our product candidates in the medical community and with third-party payors;
- maintain, expand and protect our intellectual property portfolio;
- hire additional personnel;
- enter into collaboration arrangements, if any, for the development of our product candidates or in-license other products and technologies;
- identify and develop new product candidates;
- add operational, financial and management information systems and personnel, including personnel to support our product development and planned future commercialization efforts; and
- continue to incur increased costs as a result of operating as a public company.

Because of the numerous risks and uncertainties associated with developing and commercializing pharmaceutical drugs, we are unable to predict the extent of any future losses or when we will become profitable, if at all. In addition, our expenses could increase beyond expectations if we are required by the FDA or foreign regulatory agencies, to perform studies and clinical trials in addition to those that we currently anticipate for COSELA, or if there are any delays in our or our partners completing clinical trials or the development of any of our product candidates.

To become and remain profitable, we must develop and commercialize products with significant market potential. This will require us to be successful in a range of challenging activities, including the following:

- completing clinical trials of COSELA that meet their clinical endpoints;
- manufacturing, marketing and selling those products for which we may obtain marketing approval; and
- achieving market acceptance of COSELA in the medical community and with third-party payors.

We may never succeed in these activities and, even if we do, may never generate revenues that are significant or large enough to achieve profitability. If we do achieve profitability, we may not be able to sustain or increase profitability on a quarterly or annual basis. Our failure to become and remain profitable would decrease the value of the company and could impair our ability to raise capital, maintain our discovery and preclinical development efforts, expand our business or continue our operations and may require us to raise additional capital that may dilute your ownership interest. A decline in the value of our company could also cause you to lose all or part of your investment.

Raising additional capital may cause dilution to our stockholders, restrict our operations or require us to relinquish rights to our technologies or COSELA.

Until such time, if ever, as we can generate substantial product revenues, we expect to finance our cash needs through a combination of equity financings, debt financings, collaborations, strategic alliances and licensing arrangements. The sale of additional equity or convertible debt securities would dilute all of our stockholders. The incurrence of indebtedness would result in increased fixed payment obligations, and we may be required to agree to certain restrictive covenants, such as limitations on our ability to incur additional debt, limitations on our ability to acquire, sell or license intellectual property rights, limitations on declaring dividends and other operating restrictions that could adversely impact our ability to conduct our business. We could also be required to seek funds through collaborations, strategic alliances or licensing arrangements with third parties, and we could be required to do so at an earlier stage than otherwise would be desirable. In connection with any such collaborations, strategic alliances or licensing arrangements, we may be required to relinquish valuable rights to our intellectual property, future revenue streams, research programs or product, grant rights to develop and market product that we would otherwise prefer to develop and market ourselves, or otherwise agree to terms unfavorable to us, any of which may have a material adverse effect on our business, operating results and prospects.

Our financial condition raises substantial doubt as to our ability to continue as a going concern.

We may be forced to delay or reduce the scope of our development programs and/or limit or cease our operations if we are unable to obtain additional funding to support our current operating plan. We have identified conditions and events that raise substantial doubt about our ability to continue as a going concern.

We have experienced net losses since inception and have an accumulated deficit of \$732.0 million and \$584.5 million as of December 31, 2022 and December 31, 2021, respectively. We expect to incur losses and have negative net cash flows from operating activities as we execute on our strategy including engaging in further research and development activities, particularly conducting non-clinical studies and clinical trials. Our success depends on the ability to successfully commercialize our technologies to support our operations and strategic plan. As of the date of issuance of these financial statements, we expect that our cash and cash equivalents and marketable securities as of December 31, 2022 will not be sufficient to fund our planned operations and remain in compliance with our objective financial covenants for the next 12 months from the date of issuance of these financial statements. Based on the foregoing, we have concluded that substantial doubt exists about our ability to continue as a going concern for a period of at least 12 months from the date of issuance of these financial statements. Until such time, if ever, as we can generate substantial revenues, we expect to finance our cash needs through a combination of equity offerings, debt financings, other third-party funding, marketing and distribution arrangements and other collaborations, strategic alliances and licensing arrangements. There can be no assurances that we will be able to secure such additional financing if at all, or on terms that are satisfactory to us, and that it will be sufficient to meet our needs. In the event we are not successful in obtaining sufficient funding, this could force us to delay, limit, or reduce our product development, commercialization efforts or other operations, and could result in the default of our loan payable. Our financial statements have been prepared assuming that we will continue as a going concern, which contemplates the realization of assets and the settlement of liabilities and commitments in the normal course of business. The financial statements do not include any adjustments relating to the recoverability and classification of recorded asset amounts or the amounts and classification of liabilities that might result from the outcome of the uncertainties described above. In connection with the Loan Payable described in Note 8, we are required to remain in compliance with a minimum cash covenant and a minimum monthly net product revenue covenant (determined in accordance with U.S. GAAP), measured on a trailing six-month basis. The lender also has the ability to call debt based on a material adverse change clause, which is subjectively defined. If we are not in compliance with the monthly net revenue covenant, the minimum cash covenant, or the subjective acceleration clauses are triggered under the agreement, then the lender may call the debt resulting in us immediately needing additional funds. As of December 31, 2022, we were in compliance with all covenants.

Our level of indebtedness and debt service obligations could adversely affect our financial condition and may make it more difficult for us to fund our operations.

We have entered into a Fourth Amendment to the Loan and Security Agreement with Hercules Capital, Inc. (the "Hercules Loan Agreement") for up to \$150.0 million of debt under a term loan. The maturity date of the Hercules Loan Agreement is November 1, 2026. As of December 31, 2022, the Company has borrowed \$75.0 million under the Hercules Loan Agreement. Our obligations under the Hercules Loan Agreement are secured by a blanket lien on substantially all of the Company's assets, including a security interest in the intellectual property.

This indebtedness may create additional financing risk for us, particularly if our business or prevailing financial market conditions are not conducive to paying off or refinancing our outstanding debt obligations at maturity. This indebtedness could also have important negative consequences, including the fact that we will need to repay our indebtedness by making payments of interest and principal, which will reduce the amount of money available to finance our operations, our commercialization efforts, our research and development efforts and other general corporate activities.

If we were to become unable to pay, when due, the principal of, interest on, or other amounts due in respect of, our indebtedness, our financial condition would be adversely affected. Further, under the Hercules Loan Agreement, we are subject to certain restrictive covenants that, among other things, subject to exceptions, restrict the Company's ability to do the following things: declare dividends or redeem or repurchase equity interests; incur additional liens; make loans and investments; incur additional indebtedness; engage in mergers, acquisitions, and asset sales; transact with affiliates; undergo a change in control; and add or change business locations. As of December 31, 2022, we were in compliance with all covenants. If we breach any of these restrictive covenants or are unable to pay our indebtedness under the Hercules Loan Agreement when due, this could result in a default under the Hercules Loan Agreement. In such event, Hercules may elect (after the expiration of any applicable notice or grace periods) to declare all outstanding borrowings, together with accrued and unpaid interest and other amounts payable under the Hercules Loan Agreement, to be immediately due and payable. Any such occurrence would have an adverse impact on our financial condition.

If we fail to comply with environmental, health and safety laws and regulations, we could become subject to fines or penalties or incur costs that could harm our business.

We are subject to numerous environmental, health and safety laws and regulations, including those governing laboratory procedures and the handling, use, storage, treatment and disposal of hazardous materials and wastes. Our operations involve the use of hazardous and flammable materials, including chemicals and biological materials. Our operations also produce hazardous waste products. We generally contract with third parties for the disposal of these materials and wastes. We cannot eliminate the risk of contamination or injury from these materials. In the event of contamination or injury resulting from our use of hazardous materials, we could be held liable for any resulting damages, and the amount of the liability could exceed our resources. We also could incur significant costs associated with civil or criminal fines and penalties for failure to comply with such laws and regulations.

Although we maintain workers' compensation insurance to cover us for costs and expenses we may incur due to injuries to our employees resulting from the use of hazardous materials, this insurance may not provide adequate coverage against other potential liabilities. We do not maintain insurance for environmental liability or toxic tort claims that may be asserted against us in connection with our storage or disposal of biological, hazardous or radioactive materials.

In addition, we may incur substantial costs in order to comply with current or future environmental, health and safety laws and regulations. These current or future laws and regulations may impair our discovery, preclinical development or production efforts. Our failure to comply with these laws and regulations also may result in substantial fines, penalties or other sanctions.

Our ability to use our net operating loss carryforwards and other tax attributes may be limited, and changes in tax laws could adversely impact our business and financial position.

The Internal Revenue Service or other tax authority may review and adjust our net operating loss and tax credit carryforwards pursuant to the Internal Revenue Code of 1986 (the "Code"). In the event of an "ownership change" under Section 382 of the Code ("Section 382"), we may be subject to annual limitations on our ability to utilize net operating loss and tax credit carryforwards. An ownership change constitutes a change in the ownership interest of significant shareholders in excess of 50 percent on a cumulative basis over a three-year period. In April 2019, the Company completed an evaluation study as to whether an "ownership change" had occurred and determined that the limitation would be approximately \$8.0 million on federal net operating loss carryforwards, \$1.2 million on state net operating loss carryforwards, and \$0.1 million on R&D tax credit carryforwards. The carryforward amounts reported above have already been reduced for these limitations. We continue to maintain a valuation allowance on the remaining NOLs as it believes that it is more likely than not that all of the deferred tax asset associated with the NOLs will not be realized regardless of whether an "ownership change" has occurred. As of December 31, 2022, our federal and state net operating loss carryforwards amounted to \$545.1 million and \$369.4 million, respectively. Other changes in the ownership of our stock may have caused an ownership change in the past or could cause one in the future. Additional ownership changes under Section 382 could further limit our ability to reduce future tax liabilities by utilizing our net operating loss carryforwards.

In addition, our capacity to utilize our net operating loss carryforwards and other tax attributes could be limited due to statutory and regulatory changes. For example, among other things, the Tax Cuts and Jobs Act of 2017 (the "TCJA") comprehensively changed U.S. federal tax rates, permitted capital expenditures to be expensed, and restricted tax deductions for net interest expense and net operating losses. The CARES Act of 2020 was enacted to restore the ailing U.S. economy during the COVID-19 pandemic. Among other things, the CARES Act temporarily eased the TCJA's restrictions on net interest expense tax deductions and altered the payroll tax scheme. Congress may enact additional tax legislation, and we cannot predict how future amendments in tax laws and regulations will impact our business and financial position.

Risks related to development of COSELA

If we are unable to successfully commercialize additional indications for COSELA or experience significant delays in doing so, our business will be materially harmed.

We have invested substantially all of our efforts and financial resources identifying and developing COSELA. Our ability to generate product revenues will depend on the successful development and commercialization of COSELA. COSELA will require additional development, management of development and manufacturing activities, marketing approval in multiple jurisdictions, obtaining manufacturing supply, commercialization activities, substantial investment and significant marketing efforts.

We have not yet demonstrated an ability to successfully overcome many of the risks and uncertainties frequently encountered by companies in new and rapidly evolving fields, particularly in the biopharmaceutical area. For example, to execute our business plan, we will need to successfully:

- maintain robust sales, distribution and marketing capabilities, either on our own or in collaboration with strategic partners;
- gain acceptance for COSELA by patients, the medical community and third-party payors;
- compete effectively with other therapies;
- execute development activities for COSELA, including successful enrollment in and completion of clinical trials;
- obtain required marketing approvals for the development and commercialization of additional indications for COSELA, which may become more difficult considering the discontinuation of the trial in first line metastatic colorectal cancer;
- obtain and maintain patent and trade secret protection and regulatory exclusivity for COSELA and ensure that we do not infringe the valid patent rights of third parties;
- protect, leverage and expand our intellectual property portfolio;
- establish and maintain clinical and commercial manufacturing capabilities or make arrangements with third-party manufacturers for clinical and commercial manufacturing;
- obtain and maintain healthcare coverage and adequate reimbursement;
- maintain a continued acceptable safety profile for COSELA;
- develop and maintain any strategic relationships;
- enforce and defend intellectual property rights and claims; and
- manage our spending as costs and expenses increase due to preclinical development, clinical trials, marketing approvals and commercialization.

If we do not achieve one or more of these factors in a timely manner or at all, we could experience significant delays or an inability to successfully commercialize COSELA, which would materially harm our business.

If we experience delays or difficulties in the enrollment of patients in clinical trials, development of COSELA may be delayed or prevented, which would have a material adverse effect on our business.

Identifying and qualifying patients to participate in clinical trials for COSELA is critical to our success. In particular, because we are initially focused on patients with diseases with genetically defined tumors, our ability to enroll eligible patients may be limited or may result in slower enrollment than we anticipate. We may not be able to initiate or continue clinical trials for COSELA if we are unable to locate and enroll a sufficient number of eligible patients to participate in these trials. Patient enrollment may be affected by many factors including:

- the severity of the disease under investigation;
- the eligibility criteria for the clinical trial in question;
- the perceived risks and benefits of COSELA under study;
- the efforts to facilitate timely enrollment in clinical trials;
- the patient referral practices of physicians;
- the availability of competing therapies and clinical trials; and
- the proximity and availability of clinical trial sites for prospective patients.

If we experience delays or difficulties in the enrollment of patients in clinical trials, our clinical trials may be delayed or terminated. Any delays in completing our clinical trials will increase our costs, delay or prevent development of COSELA and the approval process, and jeopardize our ability to commence product sales and generate revenue. Any of these occurrences may harm our business, financial condition and prospects significantly.

Interim, “topline” and preliminary data from our clinical trials that we announce or publish from time to time may change as more patient data become available and are subject to audit and verification procedures that could result in material changes in the final data.

From time to time, we may publicly disclose preliminary or topline data from our preclinical studies and clinical trials, which is based on a preliminary analysis of then-available data, and the results and related findings and conclusions are subject to change following a more comprehensive review of the data related to the particular study or trial. We make assumptions, estimations, calculations and conclusions as part of our analyses of data, and we may not have received or had the opportunity to fully and carefully evaluate all data. As a result, the topline or preliminary results that we report may differ from future results of the same studies, or different conclusions or considerations may qualify such results, once additional data have been received and fully evaluated. Topline data also remain subject to audit and verification procedures that may result in the final data being materially different from the preliminary data we previously published or reported. As a result, topline data should be viewed with caution until the final data are available.

From time to time, we may also disclose interim data from our preclinical studies and clinical trials. Interim data from clinical trials that we may complete are subject to the risk that one or more of the clinical outcomes may materially change as patient enrollment continues and more patient data become available. Adverse differences between preliminary or interim data and final data could significantly harm our business prospects. Further, disclosure of interim data by us could result in volatility in the price of our common stock.

Further, others, including regulatory agencies, may not accept or agree with our assumptions, estimates, calculations, conclusions or analyses or may interpret or weigh the importance of data differently, which could impact the value of the particular program, the approvability or commercialization of COSELA and our company in general. In addition, the information we choose to publicly disclose regarding a particular study or clinical trial is based on what is typically extensive information, and you or others may not agree with what we determine is material or otherwise appropriate information to include in our disclosure.

If the interim, topline, or preliminary data that we report differ from actual results, or if others, including regulatory authorities, disagree with the conclusions reached, our ability to obtain approval for, and commercialize, COSELA may be harmed, which could harm our business, operating results, prospects or financial condition.

Initial success in our ongoing clinical trials may not be indicative of results obtained when these trials are completed or in later stage trials.

We are currently evaluating COSELA in clinical trials. There can be no assurance that any of our clinical trials will ultimately be successful or support further clinical development of COSELA. For example, even though the topline results from the pivotal Phase 3 trial in colorectal cancer (PRESERVE 1) showed that COSELA achieved its co-primary endpoints related to severe neutropenia with statistical significance and mean duration of severe neutropenia in Cycles 1 through 4, early anti-tumor efficacy data favor patients receiving placebo compared to trilaciclib and led to the decision to discontinue PRESERVE 1. There is a high failure rate for drugs and biologics proceeding through clinical trials. A number of companies in the pharmaceutical and biotechnology industries have suffered significant setbacks in clinical development even after achieving promising results in earlier studies, and any such setbacks in our clinical development could have a material adverse effect on our business and operating results.

Clinical drug development involves a lengthy and expensive process, with an uncertain outcome. We may incur additional costs or experience delays in completing, or ultimately be unable to complete, the development and may experience delays in obtaining, or ultimately be unable to obtain, the approval of COSELA in additional indications.

The risk of failure in drug development is high. Before obtaining marketing approval from regulatory authorities for the sale of COSELA, we must complete preclinical development and conduct extensive clinical trials to demonstrate the safety and efficacy of COSELA in humans. Clinical trials are expensive, difficult to design and implement and can take several years to complete, and their outcomes are inherently uncertain. Failure can occur at any time during the clinical trial process. Further, the results of preclinical studies and early clinical trials of COSELA may not be predictive of the results of later-stage clinical trials, and interim results of a clinical trial do not necessarily predict final results. Moreover, preclinical and clinical data are often susceptible to varying interpretations and analyses, and many companies that have believed their product candidates performed satisfactorily in preclinical studies and clinical trials have nonetheless failed to obtain marketing approval of their products.

We may experience numerous unforeseen events during, or as a result of, clinical trials that could delay or prevent our ability to receive marketing approval in additional indications or commercialize COSELA. Clinical trials may be delayed, suspended or prematurely terminated because costs are greater than we anticipate or for a variety of reasons, such as:

- delay or failure in reaching agreement with the FDA or a comparable foreign regulatory authority on a trial design that we are able to execute;
- delay or failure in obtaining authorization to commence a trial or inability to comply with conditions imposed by a regulatory authority regarding the scope or design of a clinical trial;
- delays in reaching, or failure to reach, agreement on acceptable terms with prospective trial sites and prospective contract research organizations, or CROs, the terms of which can be subject to extensive negotiation and may vary significantly among different CROs and trial sites;
- inability, delay, or failure in identifying and maintaining a sufficient number of trial sites, many of which may already be engaged in other clinical programs;
- delay or failure in recruiting and enrolling suitable subjects to participate in a trial;
- delay or failure in having subjects complete a trial or return for post-treatment follow-up;
- clinical sites and investigators deviating from the clinical protocol, failing to conduct the trial in accordance with regulatory requirements, or dropping out of a trial;
- failure to initiate or delay of or failure to complete a clinical trial as a result of an IND being placed on clinical hold by the FDA, or for other reasons;
- lack of adequate funding to continue a clinical trial, including unforeseen costs due to enrollment delays, requirements to conduct additional clinical trials and increased expenses associated with the services of our CROs and other third parties;
- clinical trials of COSELA may produce negative or inconclusive results, and we may decide, or regulators may require us, to conduct additional clinical trials or abandon product development programs;
- the number of patients required for clinical trials of COESLA may be larger than we anticipate, enrollment in these clinical trials may be slower than we anticipate, or participants may drop out of these clinical trials at a higher rate than we anticipate;
- our third-party contractors may fail to comply with regulatory requirements or meet their contractual obligations to us in a timely manner, or at all;
- regulators, or a Data Safety Monitoring Board, or DSMB, if one is used for our clinical trials, may require that we suspend or terminate our clinical trials for various reasons, including noncompliance with regulatory requirements, unforeseen safety issues or adverse side effects, failure to demonstrate a benefit from using a drug, or a finding that the participants are being exposed to unacceptable health risks;
- the supply or quality of COSELA or other materials necessary to conduct clinical trials may be insufficient;
- the FDA or other regulatory authorities may require us to submit additional data or impose other requirements before permitting us to initiate a clinical trial; or
- there may be changes in governmental regulations or administrative actions.

Many of the factors that cause, or lead to, a delay in the commencement or completion of clinical trials may also ultimately lead to the denial of marketing approval for COSELA in additional indications. Further, the FDA may disagree with our clinical trial design and our interpretation of data from clinical trials or may change the requirements for approval even after it has reviewed and commented on the design for our clinical trials.

If we are required to conduct additional clinical trials or other studies of COSELA beyond those that we currently contemplate, if we are unable to successfully complete clinical trials of COSELA or other studies, if the results of these trials or tests are not positive or are only modestly positive or if there are safety concerns, we may:

- be delayed in obtaining marketing approval for COSELA in additional indications;
- obtain approval for indications or patient populations that are not as broad as intended or desired;
- obtain approval with labeling that includes significant use or distribution restrictions or safety warnings that would reduce the potential market for our products or inhibit our ability to successfully commercialize our products;
- be subject to additional post-marketing restrictions and/or requirements; or
- have the product removed from the market after obtaining marketing approval.

Our product development costs will also increase if we experience delays in preclinical and clinical development or receiving the requisite marketing approvals. We do not know whether any of our preclinical studies or clinical trials will need to be restructured or will be completed on schedule, or at all. Significant preclinical or clinical trial delays also could shorten any periods during which we may have the exclusive right to commercialize COSELA or allow our competitors to bring products to market before we do and impair our ability to successfully commercialize COSELA and may harm our business and results of operations.

We may not be able to identify additional therapeutic indications for COSELA or to expand our portfolio of product candidates.

We are conducting a number of clinical trials to identify new therapeutic indications for COSELA and to expand our portfolio of product candidates. However, we may be unsuccessful in developing additional therapeutic indications for COSELA. For example, our early anti-tumor efficacy data in colorectal cancer showed patients receiving placebo are favored compared to trilaciclib and led to the decision to discontinue PRESERVE 1. In addition, we may be unsuccessful in developing COSELA for breast cancer, and bladder cancer may have shown potential for therapeutic opportunities yet our clinical trials in these possible additional therapeutic indications may ultimately fail. Moreover, such clinical trials require the use of significant financial, human, and technical resources. Even if we are able to identify new opportunities, COSELA will not be commercially available in these indications for a number of years due to extensive clinical testing requirements and regulatory approvals. Additionally, we may focus our limited efforts and resources on a new therapeutic indication that is ultimately unsuccessful. Therefore, we cannot guarantee that we will ever be able to identify and develop additional therapeutic indications for COSELA or expand our portfolio of product candidates, which could adversely impact our future growth and prospects.

Our development of COSELA, a CDK4/6 inhibitor to decrease the incidence of chemotherapy-induced myelosuppression, is novel, unproven and rapidly evolving.

COSELA is a short-acting intravenous CDK4/6 inhibitor. The use of a CDK4/6 inhibitor to decrease the incidence of chemotherapy-induced myelosuppression is a novel approach and we believe that we are the only company currently developing a CDK4/6 inhibitor for this patient population. Even though COSELA has demonstrated positive results in clinical trials for small cell lung cancer, we may not succeed in demonstrating safety and efficacy of COSELA in additional indications.

Advancing COSELA creates significant challenges for us, including:

- obtaining marketing approval for multiple indications, as the FDA and other regulatory authorities have limited experience with commercial development of a CDK4/6 inhibitor for this type of use;
- educating medical personnel regarding the potential safety benefits, as well as the challenges, of incorporating our product candidates into their treatment regimens; and
- establishing sales and marketing capabilities to gain market acceptance of a novel therapy.

Risks related to marketing approval of COSELA for additional indications

If we are not able to obtain, or if there are delays in obtaining, additional required marketing approvals for COSELA, we will not be able to commercialize it in other indications, and our ability to generate revenue will be materially impaired.

COSELA and the activities associated with its development and commercialization, including design, testing, manufacture, safety, efficacy, recordkeeping, labeling, storage, approval, advertising, promotion, sale, distribution, import and export are subject to comprehensive regulation by the FDA and other regulatory agencies in the United States and by comparable authorities in other countries. These requirements include submissions of safety and other post-marketing information and reports, registration and listing requirements, current good manufacturing practice, or cGMP, requirements relating to manufacturing, quality control, quality assurance and corresponding maintenance of records and documents, including periodic inspections by FDA and other regulatory authorities, requirements regarding the distribution of samples to physicians and recordkeeping. Before we can commercialize COSELA in additional indications, it must be approved by the FDA pursuant to a new drug application, or NDA, in the United States, by the European Medicines Agency, or EMA, pursuant to a marketing authorization application, or MAA, in the European Union, and by similar regulatory authorities outside the United States prior to commercialization.

The process of obtaining marketing approvals, both in the United States and abroad, is expensive and takes several years, if approval is obtained at all, and can vary substantially based upon a variety of factors, including the type, complexity and novelty of the product candidates involved. Failure to obtain marketing approval for COSELA in additional indications will prevent us from commercializing it in those indications. For example, our early anti-tumor efficacy data in colorectal cancer showed patients receiving placebo were favored compared to trilaciclib and led to the decision to discontinue PRESERVE 1. We have limited experience in planning and conducting the clinical trials required for marketing approvals, and we expect to rely on third-party contract research organizations, or CROs, to assist us in this process. Obtaining marketing approval requires the submission of extensive preclinical and clinical data and supporting information to regulatory authorities for each therapeutic indication to establish product safety and efficacy. Securing marketing approval also requires the submission of information about the product manufacturing process, and in many cases the inspection of manufacturing facilities by the regulatory authorities. COSELA may not be effective, may be only moderately effective or may prove to have undesirable or unintended side effects, toxicities or other characteristics that may limit commercial use. Regulatory authorities have substantial discretion in the approval process and may refuse to accept any application or may decide that our data are insufficient for approval and require additional preclinical studies or clinical trials. COSELA may be delayed in receiving, or fail to receive, marketing approval in additional indications for many reasons, including the following:

- the FDA or comparable foreign regulatory authorities may disagree with the design or implementation of our clinical trials;
- we may be unable to demonstrate to the satisfaction of the FDA or comparable foreign regulatory authorities that COSELA is safe and effective for its proposed indication;
- the results of clinical trials may not meet the level of statistical significance required by the FDA or comparable foreign regulatory authorities for approval;
- we may be unable to demonstrate that COSELA's clinical and other benefits outweigh its safety risks;
- the FDA or comparable foreign regulatory authorities may disagree with our interpretation of data from preclinical studies or clinical trials;
- the data collected from clinical trials of COSELA may not be sufficient to support the submission of an NDA or other submission to obtain marketing approval in the United States or elsewhere;
- third-party manufacturers or our clinical or commercial product may be unable to meet the FDA's cGMP requirements or similar requirements of foreign regulatory authorities; and
- the approval requirements or policies of the FDA or comparable foreign regulatory authorities may significantly change in a manner rendering our clinical data insufficient for approval.

In addition, even if we were to obtain approval for additional indications, regulatory authorities, may grant approval contingent on the performance of costly post-marketing clinical trials, or may approve a label that does not include the labeling claims necessary or desirable for the successful commercialization of COSELA. Any of the foregoing scenarios could materially harm the commercial prospects of COSELA.

If we experience delays in obtaining approval or if we fail to obtain approval of COSELA in additional indications, the commercial prospects for COSELA may be harmed and our ability to generate revenues will be materially impaired.

If COSELA is approved for additional indications, it may be subject to extensive post-marketing regulatory requirements and could be subject to post-marketing restrictions or withdrawal from the market, and we may be subject to penalties if we fail to comply with regulatory requirements or if we experience unanticipated problems with our products.

Commercialization activities for COSELA, such as the manufacturing processes, labeling, packaging, distribution, adverse event reporting, storage, advertising, promotion and recordkeeping for the product will be subject to extensive and ongoing regulatory requirements. The FDA or a comparable foreign regulatory authority may also impose requirements for costly post-marketing preclinical studies or clinical trials and surveillance to monitor the safety or efficacy of the product. The FDA closely regulates the post-approval marketing and promotion of drugs to ensure drugs are marketed only for the approved indications and in accordance with the provisions of the approved labeling. The FDA imposes stringent restrictions on manufacturers' communications regarding use of their products, and if we promote COSELA or any other of our products beyond their approved indications, we may be subject to enforcement actions or prosecution arising from that off-label promotion. Violations of the Federal Food, Drug, and Cosmetic Act relating to the promotion of prescription drugs may lead to investigations alleging violations of federal and state healthcare fraud and abuse and other laws, as well as state consumer protection laws.

In addition, later discovery of previously unknown adverse events or other problems with our products, manufacturers or manufacturing processes, or failure to comply with regulatory requirements, may yield various results, including:

- restrictions on such products, manufacturers or manufacturing processes;
- restrictions on the labeling or marketing of a product;
- restrictions on product distribution or use;
- requirements to conduct post-marketing studies or clinical trials;
- warning or untitled letters;
- withdrawal of the products from the market;
- refusal to approve pending applications or supplements to approved applications that we submit;
- recall of products;
- fines, restitution or disgorgement of profits or revenues;
- suspension or withdrawal of marketing approvals;
- refusal to permit the import or export of our products;
- product seizure; or
- injunctions or the imposition of civil or criminal penalties.

Non-compliance with European Union requirements regarding safety monitoring or pharmacovigilance can also result in significant financial penalties. Similarly, failure to comply with the European Union's requirements regarding the protection of personal information can also lead to significant penalties and sanctions.

The FDA's policies may change and additional government regulations may be enacted that could prevent, limit or delay marketing approval of additional indications for COSELA. If we are slow or unable to adapt to changes in existing requirements or the adoption of new requirements or policies, or if we are not able to maintain regulatory compliance, we may lose any marketing approval that we may have obtained, which would adversely affect our business, prospects and ability to achieve or sustain profitability.

Current and future legislation may increase the difficulty and cost for us to obtain marketing approval of and commercialize COSELA and affect the prices we may obtain.

In the United States and some foreign jurisdictions, there have been a number of legislative and regulatory changes and proposed changes regarding the healthcare system that could prevent or delay marketing approval of COSELA, restrict or regulate post-approval activities and affect our ability to profitably sell COSELA.

In the United States, the Medicare Prescription Drug, Improvement, and Modernization Act of 2003, or the MMA, changed the way Medicare covers and pays for pharmaceutical products. The legislation expanded Medicare coverage for drug purchases by the elderly and certain disabled people and introduced a reimbursement methodology based on average sales prices for physician-administered drugs. In addition, this law provided authority for limiting the number of drugs that will be covered in any therapeutic class. Cost reduction initiatives and other provisions of this law and future laws could decrease the coverage and price that we will receive for any approved products. While the MMA only applies to drug benefits for Medicare beneficiaries, private payors often follow Medicare coverage policy and payment limitations in setting their own payment rates. Therefore, any limitations in reimbursement that results from the MMA may result in reductions in payments from private payors.

In March 2010, the ACA became law. The ACA is a sweeping law intended to broaden access to health insurance, reduce or constrain the growth of healthcare spending, enhance remedies against fraud and abuse, add new transparency requirements for the healthcare and health insurance industries, impose new taxes and fees on the health industry and impose additional health policy reforms.

Among the provisions of the ACA of importance to COSELA are the following:

- an annual, nondeductible fee on any entity that manufactures or imports specified branded prescription drugs and biologic products;
- an increase in the statutory minimum rebates a manufacturer must pay under the Medicaid Drug Rebate Program;
- expansion of healthcare fraud and abuse laws, including the False Claims Act and the Anti-Kickback Statute, new government investigative powers, and enhanced penalties for noncompliance;
- a new Medicare Part D coverage gap discount program, in which manufacturers must agree to offer 50% point-of-sale discounts off negotiated prices;
- extension of manufacturers' Medicaid rebate liability;
- expansion of eligibility criteria for Medicaid programs;
- expansion of the entities eligible for discounts under the Public Health Service Act's pharmaceutical pricing program;
- new requirements to report financial arrangements with physicians and teaching hospitals;
- a new requirement to annually report drug samples that manufacturers and distributors provide to physicians; and
- a new Patient-Centered Outcomes Research Institute to oversee, identify priorities in, and conduct comparative clinical effectiveness research, along with funding for such research.

The recently-passed Infrastructure Investment and Jobs Act may impact our future strategies and results of operations as it pertains to COSELA. Passed by the 117th United States Congress and signed into law by President Joe Biden on November 15, 2021, the Infrastructure Investment and Jobs Act is landmark legislation which may significantly impact the pharmaceutical industry.

There have been several recent U.S. congressional inquiries and proposed and enacted federal and state legislation designed to bring more transparency to drug pricing, reduce the costs of drugs under Medicare, review the relationship between pricing and manufacturer patient programs, and reform government program reimbursement methodologies for drug products. One significant example of recent legislative action is the Inflation Reduction Act of 2022 (the "IRA"), which was signed into law in August 2022. While the IRA is still subject to rulemaking (with more information to come via guidance documents from the responsible federal agencies), the IRA, as written, will, among other things, allow the United States Department of Health and Human Services ("HHS") to negotiate the selling price of certain drugs and biologics that the Centers for Medicare & Medicaid Services ("CMS") reimburse under Medicare Part B and Part D, although only high-expenditure single-source drugs that have been approved for at least 7 years (11 years for biologics) can be selected by CMS for negotiation, with the negotiated price taking effect two years after the selection year. The IRA will also require manufacturers of certain Part B and Part D drugs to issue to HHS rebates based on certain calculations and triggers (i.e., when drug prices increase and outpace the rate of inflation). At this time, we cannot predict the implications the IRA provisions will have on our business.

We expect that the ACA, as well as other healthcare reform measures that may be adopted in the future, may result in more rigorous coverage criteria and in additional downward pressure on the price that we will receive for any approved product. Any reduction in payments from Medicare or other government programs may result in a similar reduction in payments from private payors. The implementation of cost containment measures or other healthcare reforms may prevent us from being able to generate revenue, attain profitability, or commercialize our products.

Legislative and regulatory proposals have been made to expand post-approval requirements and restrict sales and promotional activities for pharmaceutical products. We cannot be sure whether additional legislative changes will be enacted, or whether FDA regulations, guidance or interpretations will be changed, or what the impact of such changes on the marketing approvals, if any, of our product candidates, may be. In addition, increased scrutiny by the U.S. Congress of the FDA's approval process may significantly delay or prevent marketing approval, as well as subject us to more stringent product labeling and post-marketing conditions and other requirements.

Our product may cause undesirable side effects that could delay or prevent its marketing approval for additional indications, limit its commercial profile, or result in significant negative consequences following marketing approval, if any.

Undesirable side effects caused by our product could cause us or the FDA or other regulatory authorities to interrupt, delay or halt our clinical trials for any additional indications and could result in more restrictive labels or the delay or denial of marketing approval by the FDA or other regulatory authorities of our product in additional indications. Results of our ongoing clinical trials could reveal a high and unacceptable severity and prevalence of these or other side effects we may observe when trilaciclib is administered in the other tumor types and treatment combinations. In such an event, our trials could be suspended or terminated, and the FDA or comparable foreign regulatory authorities could order us to cease further development of or deny approval of our product for any or all additional indications. In addition to this, the drug-related side effects could affect patient recruitment or the ability of enrolled patients to complete the trial or result in potential product liability claims. Any of these occurrences may harm our business, financial condition and prospects significantly.

Further, clinical trials by their nature utilize a sample of the potential patient population. With a limited number of patients, rare and severe side effects of trilaciclib may only be uncovered with a significantly larger number of patients exposed to the product. If our product receives marketing approval in additional indications and we or others identify undesirable side effects caused by such product (or any other similar drugs) after such approval, a number of potentially significant negative consequences could result, including:

- regulatory authorities may withdraw or limit their approval of such product;
- regulatory authorities may require the addition of labeling statements, such as a “boxed” warning or a contraindication;
- we may be required to create a medication guide outlining the risks of such side effects for distribution to patients;
- we may be required to change the way such product is distributed or administered, conduct additional clinical trials or change the labeling of the product;
- regulatory authorities may require a Risk Evaluation and Mitigation Strategy plan to mitigate risks, which could include medication guides, physician communication plans, or elements to assure safe use, such as restricted distribution methods, patient registries and other risk minimization tools;
- we may be subject to regulatory investigations and government enforcement actions;
- we may decide to remove the product from the marketplace after it is approved;
- we could be sued and held liable for injury caused to individuals exposed to or taking our product; and
- our reputation may suffer.

We believe that any of these events could prevent us from achieving or maintaining market acceptance of COSELA in ES-SCLC and could substantially increase the costs of gaining marketing approval for COSELA in additional indications and significantly impact our ability to successfully commercialize COSELA and generate revenues in other tumor types and treatment combinations.

The FDA and other government agencies could prevent the timely development and commercialization of new indications of COSELA due to concerns about the quality of that data from clinical trials performed in China.

Numerous factors, including regulatory and policy changes, could impact the likelihood and timing of obtaining FDA approval of additional indications for COSELA. The FDA has recently expressed reservations regarding the quality of data from clinical trials conducted in China for the development of cancer treatments. In August 2020, we entered into a license agreement with Nanjing Simcere Dongyuan Pharmaceutical Co., Ltd. (“Simcere”), for the development and commercialization of COSELA in Greater China. In addition, we have collaborated with Simcere in China to help us develop additional indications for COSELA. We are dependent on Simcere’s ability to comply with applicable foreign and U.S. regulatory requirements. The FDA may be hesitant to approve drugs that include data from clinical trials performed in China. This may require us to modify our current clinical trials to exclude the data from China or perform additional clinical trials without Simcere’s assistance, which could be expensive and time-consuming. A delay in obtaining the required regulatory approvals could in turn lead to delays in the development of additional indications for COSELA, which could adversely affect us financially.

Our future growth may depend, in part, on our ability to penetrate foreign markets, where we would be subject to additional regulatory burdens and other risks and uncertainties.

Our future profitability may depend, in part, on our ability to commercialize our product in foreign markets. In order to market and sell our product in the European Union and many other jurisdictions, we or our third-party collaborators must obtain separate marketing approvals and comply with numerous and varying regulatory requirements. The approval procedure varies among countries and economic areas and can involve additional testing. The time required to obtain approval may differ substantially from that required to obtain FDA approval. The marketing approval process outside the United States generally includes all of the risks associated with obtaining FDA approval. In addition, in many countries outside the United States, it is required that the product be approved for reimbursement before the product can be approved for sale in that country. We or these third parties may not obtain approvals from regulatory authorities outside the United States on a timely basis, if at all. Approval by FDA does not ensure approval by regulatory authorities in other countries or jurisdictions, and approval by one regulatory authority outside the United States does not ensure approval by regulatory authorities in other countries or jurisdictions or by FDA. Additionally, a failure or delay in obtaining marketing approval in one jurisdiction may have a negative effect on the marketing approval process in others. Approval procedures vary among jurisdictions and can involve requirements and administrative review periods different from, and greater than, those in the United States, including additional preclinical studies or clinical trials. Obtaining foreign marketing approvals and compliance with foreign regulatory requirements could result in significant delays, difficulties and costs for us and could delay or prevent the introduction of our product in certain countries. If we fail to comply with the regulatory requirements in international markets and/or receive applicable marketing approvals, our target market will be reduced and our ability to realize the full market potential of our product will be harmed.

We may not be able to file for marketing approvals and may not receive necessary approvals to commercialize our products in any market. If we obtain approval of our product candidates and ultimately commercialize our product in foreign markets, we would be subject to additional risks and uncertainties, including:

- our customers’ ability to obtain reimbursement for our product in foreign markets;
- our inability to directly control commercial activities because we are relying on third parties;
- the burden of complying with complex and changing foreign regulatory, tax, accounting and legal requirements;
- different medical practices and customs in foreign countries affecting acceptance in the marketplace;
- import or export licensing requirements;
- longer accounts receivable collection times;
- longer lead times for shipping;
- language barriers for technical training;
- reduced or no protection on pharmaceutical products or their use in some foreign countries;
- the unwillingness of courts in some foreign jurisdictions to enforce patents even when valid and infringed in that country;
- the possibility of pre-grant or post-grant review proceedings in certain foreign countries that allow a petitioner to hold up patent rights for an extended period or permanently by challenging the patent filing at the patent office of that country;

- the possibility of a compulsory license issued by a foreign country that allows a third-party company or a government to manufacture, use or sell our products with a government-set low royalty to us;
- the existence of additional potentially relevant third-party intellectual property rights;
- foreign currency exchange rate fluctuations; and
- the interpretation of contractual provisions governed by foreign laws in the event of a contract dispute.

Foreign sales of COSELA could also be adversely affected by the imposition of governmental controls, political and economic instability, trade restrictions and changes in tariffs.

Risks related to employee matters, managing growth and other risks related to our business

We currently have a limited number of employees, and our future success depends on our ability to retain key executives and to attract, retain and motivate qualified personnel.

We are a commercial-stage biopharmaceutical company, and, as of December 31, 2022, had 170 employees, which includes seven executive officers. We are highly dependent on the commercialization, research and development, clinical, and business development expertise of our executive officers, as well as the other principal members of our management, scientific and clinical team. Although we have entered into employment agreements with our executive officers, each of them may terminate their employment with us at any time. We do not maintain “key person” insurance for any of our executives or other employees. In addition, we rely on consultants and advisors, including scientific and clinical advisors, to assist us in formulating our research and development and commercialization strategy. Our consultants and advisors may be employed by employers other than us and may have commitments under consulting or advisory contracts with other entities that may limit their availability to us. If we are unable to continue to attract and retain high quality personnel, our ability to pursue our growth strategy will be limited.

Recruiting and retaining qualified scientific, clinical, manufacturing, sales and marketing personnel will also be critical to our success. The loss of the services of our executive officers or other key employees could impede the achievement of our research, development and commercialization objectives and seriously harm our ability to successfully implement our business strategy. Furthermore, replacing executive officers and key employees may be difficult and may take an extended period of time because of the limited number of individuals in our industry with the breadth of skills and experience required to successfully develop, obtain marketing approval of and commercialize products. Competition to hire from this limited pool is intense, and we may be unable to hire, train, retain or motivate these key personnel on acceptable terms given the competition among numerous pharmaceutical and biotechnology companies for similar personnel. We also experience competition for the hiring of scientific and clinical personnel from universities and research institutions. Failure to succeed in clinical trials may make it more challenging to recruit and retain qualified scientific personnel. If we are unable to continue to attract and retain high quality personnel, our ability to pursue our growth strategy will be limited.

Unfavorable global economic conditions could adversely affect our business, financial condition, or results of operations.

Our results of operations could be adversely affected by general conditions in the global economy and in the global financial markets. The global financial crisis at the end of the last decade caused extreme volatility and disruptions in the capital and credit markets. A severe or prolonged economic downturn, such as that global financial crisis, could result in a variety of risks to our business, including our ability to raise additional capital when needed on acceptable terms, if at all. A weak or declining economy could also strain our suppliers, possibly resulting in supply disruption. Any of the foregoing could harm our business, and we cannot anticipate all of the ways in which the current economic climate and financial market conditions could adversely impact our business.

We face risks related to health epidemics and outbreaks, including the novel coronavirus (COVID-19), which could significantly disrupt our preclinical studies and clinical trials.

In December 2019, a novel strain of coronavirus (COVID-19) surfaced in Wuhan, China and in March 2020, in an effort to halt the outbreak of COVID-19, the United States, along with many other countries, placed significant restrictions on travel and many businesses have announced extended closures which could adversely impact our operations. The COVID-19 pandemic has continued to evolve, with new variants (such as the Omicron variant) emerging and spreading more easily and quickly than other variants. As such, the duration and the geographic impact of the business disruption and related financial impact resulting from the COVID-19 pandemic cannot be reasonably estimated at this time and our business could be adversely impacted by the effects of the COVID-19 pandemic.

The enrollment of patients in current and future clinical trials may be slower due to the outbreak of COVID-19. In addition, we rely on independent clinical investigators, contract research organizations and other third-party service providers to assist us in managing, monitoring and otherwise carrying out our nonclinical studies and clinical trials, and the outbreak may affect their ability to devote sufficient time and resources to our programs. We also rely on third party suppliers and contract manufacturers to produce the drug product we utilize in our clinical trials. Although we do not anticipate significant supply chain delays or shortages as a result of the COVID-19 pandemic at this time, the outbreak may cause delays in delivery of APIs and drug product. Temporary closure of our facilities, or facilities at which our clinical trials or nonclinical studies are conducted, or restrictions on the ability of our employees, clinicians or patients enrolled in our trials to travel could adversely affect our operations and our ability to conduct and complete our nonclinical studies and clinical trials. As a result of the foregoing factors, the expected timeline for data readouts of our clinical trials may be negatively impacted, which would adversely affect our business.

The COVID-19 pandemic also presents a number of challenges for our commercial business, including, among others, the impact due to continued travel limitations and government-mandated work-from-home or shelter-in-place orders, potential decreased product demand due to reduced numbers of in-person meetings with prescribers and patient visits with physicians, possible delay in cancer treatments with chemotherapy as well as increased unemployment resulting in lower new prescriptions.

In addition, the FDA's ability to engage in routine regulatory and oversight activities, such as the review and clearance or approval of new products, may be affected by the COVID-19 pandemic. The FDA and other regulatory authorities may have slower response times or be under-resourced. If the global health concerns continue to disrupt or prevent the FDA or other regulatory authorities from conducting their regular reviews, inspections, or other regulatory activities, it could significantly impact the ability of the FDA or other regulatory authorities to timely review and process our marketing applications, clinical trial authorizations, or other regulatory submissions, which could have a material adverse effect on our business.

The full extent to which COVID-19 impacts our business will depend on future developments, including, but not limited to, the ultimate severity and scope of the pandemic, the pace at which governmental and private travel restrictions and public concerns about public gatherings will ease, the rate at which historically large increases in unemployment rates will decrease, if at all, and whether, and the speed with which the economy recovers, which are highly uncertain and cannot be predicted, including new information which may emerge concerning the severity of COVID-19 and the actions to treat or contain COVID-19 and any variants thereof, or to otherwise limit their impact.

Our business and operations could suffer in the event of system failures.

We utilize information technology systems and networks to process, transmit and store electronic information in connection with our business activities. As use of digital technologies has increased, cyber incidents, including deliberate attacks and attempts to gain unauthorized access to computer systems and networks, have increased in frequency and sophistication. These threats pose a risk to the security of our systems and networks and the confidentiality, availability and integrity of our data. There can be no assurance that we will be successful in preventing cyber-attacks or successfully mitigating their effects.

Despite the implementation of security measures, our internal computer systems and those of our third-party CROs and other contractors and consultants are vulnerable to damage from cyber-attack, computer viruses, unauthorized access, natural disasters, terrorism, war and telecommunication and electrical failures. Furthermore, we have little or no control over the security measures and computer systems of our third-party CROs and other contractors and consultants. While we have not experienced any such system failure, accident, or security breach to date, if such an event were to occur and cause interruptions in our operations, it could result in a material disruption of our programs. For example, the loss of clinical trial data for COSELA could result in delays in our marketing approval efforts and significantly increase our costs to recover or reproduce the data. To the extent that any disruption or security breach results in a loss of or damage to our data or applications or other data or applications relating to our technology or product, or inappropriate disclosure of confidential or proprietary information, we could incur liabilities and the further development of our COSELA could be delayed.

We may encounter difficulties in managing our growth, which could disrupt our operations.

To manage our anticipated expansion, we must continue to implement and improve our managerial, operational and financial systems, and continue to recruit and train additional qualified personnel. Also, our management may need to divert a disproportionate amount of its attention away from its day-to-day activities and devote a substantial amount of time to managing these growth activities. Due to our limited resources, we may not be able to effectively manage the expansion of our operations or recruit and train additional qualified personnel. This may result in weaknesses in our infrastructure, give rise to operational mistakes, loss of business opportunities, loss of employees and reduced productivity among remaining employees. The expansion of our operations may lead to significant costs and may divert financial resources from other projects, such as the development of our product. If our management is unable to effectively manage our expected expansion, our expenses may increase more than expected, our ability to generate or increase our revenue could be reduced and we may not be able to implement our business strategy. Our future financial performance and our ability to commercialize our product, if approved, and compete effectively will depend, in part, on our ability to effectively manage the future expansion of our company.

We may fail to capitalize on product candidates that may be more profitable or for which there is a greater likelihood of success.

Because we have limited financial and managerial resources, we focus on a specific product. As a result, we may forgo or delay pursuit of opportunities with other product candidates that later prove to have greater commercial potential. Our resource allocation decisions may cause us to fail to capitalize on viable commercial products or profitable market opportunities. Our spending on current and future research and development programs and product candidates for specific indications may not yield any commercially viable product candidates. If we do not accurately evaluate the commercial potential or target market for a particular product candidate, we may relinquish valuable rights to that product candidate through collaboration, licensing or other royalty arrangements in cases in which it would have been more advantageous for us to retain sole development and commercialization rights to such product candidate.

Our employees, principal investigators, CROs and consultants may engage in misconduct or other improper activities, including non-compliance with regulatory standards and requirements and insider trading.

We are exposed to the risk that our employees, principal investigators, CROs and consultants may engage in fraudulent conduct or other illegal activity. Misconduct by these parties could include intentional, reckless and/or negligent conduct or disclosure of unauthorized activities to us that violate the regulations of the FDA and other regulatory authorities, including those laws requiring the reporting of true, complete and accurate information to such authorities; healthcare fraud and abuse laws and regulations in the United States and abroad; or laws that require the reporting of financial information or data accurately. In particular, sales, marketing and business arrangements in the healthcare industry are subject to extensive laws and regulations intended to prevent fraud, misconduct, kickbacks, self-dealing and other abusive practices. These laws and regulations may restrict or prohibit a wide range of pricing, discounting, marketing and promotion, sales commission, customer incentive programs and other business arrangements. Activities subject to these laws also involve the improper use of information obtained in the course of clinical trials or creating fraudulent data in our preclinical studies or clinical trials, which could result in regulatory sanctions and cause serious harm to our reputation. We have adopted a code of conduct applicable to all of our employees, but it is not always possible to identify and deter misconduct by employees and other third parties, and the precautions we take to detect and prevent this activity may not be effective in controlling unknown or unmanaged risks or losses or in protecting us from governmental investigations or other actions or lawsuits stemming from a failure to comply with these laws or regulations. Additionally, we are subject to the risk that a person could allege such fraud or other misconduct, even if none occurred. If any such actions are instituted against us, and we are not successful in defending ourselves or asserting our rights, those actions could have a significant impact on our business, including the imposition of civil, criminal and administrative penalties, damages, monetary fines, possible exclusion from participation in Medicare, Medicaid and other federal healthcare programs, contractual damages, reputational harm, diminished profits and future earnings, and curtailment of our operations, any of which could adversely affect our ability to operate our business and our results of operations.

We or the third parties upon which we depend may be adversely affected by general political and economic conditions and other events beyond our control and our business continuity and disaster recovery plans may not adequately protect us from a serious disaster.

We have become increasingly subject to the risks arising from adverse changes in economic and political conditions, both domestically and globally, including trends toward protectionism and nationalism, other unfavorable changes in economic conditions, such as inflation, rising interest rates or a recession, and other events beyond our control, such as natural disasters, pandemics such as the COVID-19 (coronavirus), epidemics, political instability, and armed conflicts and wars, including the Russia-Ukraine war. The effects of current and future economic and political conditions and other events beyond our control on us, patients, our third party vendors, including clinical trial sites, and our partners could severely disrupt our operations and have a material adverse effect on our business, results of operations, financial condition and prospects. If a natural disaster, power outage or other event occurred that prevented us from using all or a significant portion of our headquarters, that damaged critical infrastructure, such as the manufacturing facilities of our third-party contract manufacturers, or that otherwise disrupted operations, it may be difficult or, in certain cases, impossible for us to continue our business for a substantial period of time. The disaster recovery and business continuity plans we have in place may prove inadequate in the event of a serious disaster or similar event. We may incur substantial expenses as a result of the limited nature of our disaster recovery and business continuity plans, which could have a material adverse effect on our business.

We may acquire businesses or drugs, or form strategic alliances, in the future, and we may not realize the benefits of such acquisitions.

We may acquire additional businesses or drugs, form strategic alliances or create joint ventures with third parties that we believe will complement or augment our existing business. If we acquire businesses with promising markets or technologies, we may not be able to realize the benefit of acquiring such businesses if we are unable to successfully integrate them with our existing operations and company culture. We may encounter numerous difficulties in developing, manufacturing and marketing any new drugs resulting from a strategic alliance or acquisition that delay or prevent us from realizing their expected benefits or enhancing our business. We cannot assure you that, following any such acquisition, we will achieve the expected synergies to justify the transaction.

If we fail to establish and maintain proper and effective internal control over financial reporting, our operating results and our ability to operate our business could be harmed.

Adequate internal control over financial reporting are necessary for us to provide reliable financial reports and, together with effective disclosure controls and procedures, are designed to prevent or detect material misstatements due to fraud or error. Any failure to implement required new or improved controls, or difficulties encountered in their implementation could cause us to fail to meet our reporting obligations. In addition, any testing conducted by us in connection with Section 404 of the Sarbanes-Oxley Act, or any subsequent testing by our independent registered public accounting firm, may reveal deficiencies in our internal control over financial reporting that are deemed to be material weaknesses or that may require prospective or retroactive changes to our financial statements or identify other areas for further attention or improvement. Inadequate internal controls could also cause investors to lose confidence in our reported financial information, which could have a negative effect on the trading price of our stock.

Implementing any appropriate changes to our internal controls may distract our officers and employees, entail substantial costs to modify our existing processes, and take significant time to complete. These changes may not, however, be effective in maintaining the adequacy of our internal controls, and any failure to maintain that adequacy, or consequent inability to produce accurate financial statements on a timely basis, could increase our operating costs and harm our business. In addition, investors' perceptions that our internal controls are inadequate or that we are unable to produce accurate financial statements on a timely basis may harm our stock price and make it more difficult for us to effectively market and sell our service to new and existing customers.

Risks related to our dependence on third parties

We rely on, and expect to continue to rely on, third parties to conduct our clinical trials for COSELA. If these third parties do not successfully carry out their contractual duties, comply with regulatory requirements or meet expected deadlines, we may not be able to commercialize our product or obtain marketing approval for additional indications, and our business could be substantially harmed.

We do not have the ability to independently conduct clinical trials. We rely on medical institutions, clinical investigators, contract laboratories and other third parties, such as CROs, to conduct or otherwise support clinical trials for COSELA. We expect to rely heavily on these parties for performance of clinical trials for our product. Nevertheless, we will be responsible for ensuring that each of our clinical trials is conducted in accordance with the applicable protocol, legal and regulatory requirements and scientific standards.

We, our investigators, and our CROs will be required to comply with regulations, including good clinical practice, or GCP, and other related requirements for conducting, monitoring, recording and reporting the results of clinical trials to ensure that the data and results are scientifically credible and accurate, and that the trial patients are adequately informed of the potential risks of participating in clinical trials and their rights are protected. These regulations are enforced by the FDA, the Competent Authorities of the Member States of the European Economic Area and comparable foreign regulatory authorities for any drugs in clinical development. The FDA enforces GCPs through periodic inspections of clinical trial sponsors, principal investigators and trial sites. If we, our investigators or our CROs fail to comply with applicable GCPs, the clinical data generated in our clinical trials may be called into question and the FDA or comparable foreign regulatory authorities may require us to perform additional clinical trials before considering our marketing applications for approval. We cannot assure you that, upon inspection, the FDA will determine that any of our future clinical trials will comply with GCPs.

In addition, our clinical trials must be conducted with product produced under cGMPs. Our failure or the failure of our investigators or CROs to comply with these requirements may require us to repeat clinical trials, which would delay the marketing approval process and could also subject us to enforcement action. We also are required to register certain clinical trials and post the results of such completed clinical trials involving our product for which we receive marketing approval on a government-sponsored database, ClinicalTrials.gov, within certain timeframes. Failure to do so can result in fines, adverse publicity and civil and criminal sanctions.

Although we intend to design the clinical trials for COSELA, CROs will administer all of the clinical trials. As a result, many important aspects of our development programs, including their conduct and timing, will be outside of our direct control. Our reliance on third parties to conduct future clinical trials will also result in less direct control over the management of data developed through clinical trials than would be the case if we were relying entirely upon our own staff. Communicating with outside parties can also be challenging, potentially leading to mistakes as well as difficulties in coordinating activities. Outside parties may:

- have staffing difficulties;
- fail to comply with contractual obligations;
- experience regulatory compliance issues;
- undergo changes in priorities or become financially distressed;
- make errors in the design, management or retention of our data or data systems; and/or
- form relationships with other entities, some of which may be our competitors.

These factors may materially adversely affect the willingness or ability of third parties to conduct our clinical trials and may subject us to unexpected cost increases that are beyond our control. If the CROs do not perform clinical trials in a satisfactory manner, breach their obligations to us or fail to comply with regulatory requirements, the development, marketing approval and commercialization of our product may be delayed, we may not be able to obtain marketing approval and commercialize our product candidates, or our development program may be materially and irreversibly harmed. If we are unable to rely on clinical data collected by our CROs, we could be required to repeat, extend the duration of, or increase the size of any clinical trials we conduct, and this could significantly delay commercialization and require significantly greater expenditures.

If any of our relationships with these third-party CROs terminate, we may not be able to enter into arrangements with alternative CROs. If CROs do not successfully carry out their contractual duties or obligations or meet expected deadlines, if they need to be replaced or if the quality or accuracy of the clinical data they obtain is compromised due to the failure to adhere to our clinical protocols, regulatory requirements or for other reasons, any clinical trials such CROs are associated with may be extended, delayed or terminated, and we may not be able to obtain marketing approval in additional indications or successfully commercialize COSELA. As a result, we believe that our financial results and the commercial prospects for COSELA in the subject indication would be harmed, our costs could increase and our ability to generate revenue could be delayed.

We contract with third parties for the manufacture of COSELA for preclinical studies, clinical trials, and commercial supply. This reliance on third parties increases the risk that we will not have sufficient quantities of COSELA or such quantities at an acceptable cost, which could delay, prevent or impair our development or commercialization efforts.

We do not currently own or operate, nor do we have any plans to establish in the future, any manufacturing facilities. We rely, and expect to continue to rely, on third parties for the manufacture of COSELA for preclinical studies, clinical trials, and commercial supply of COSELA. This reliance on third parties increases the risk that we will not have sufficient quantities of our product or drugs or such quantities at an acceptable cost or quality, which could delay, prevent or impair our development or commercialization efforts.

The facilities used to manufacture COSELA (drug substance and drug product) must be approved by the FDA (and comparable foreign regulatory authority depending on where marketing authorizations are filed) before marketing authorizations are approved. Often, but not always, these inspections are triggered by marketing authorization submissions. We are completely dependent on our contract manufacturers for compliance with current Good Manufacturing Practices (cGMPs) in connection with the manufacture of our product. If our contract manufacturers cannot successfully manufacture material that conforms to our specifications and to the regulatory requirements of the FDA or comparable foreign regulatory authority, then we will not be able to use the products produced at their manufacturing facilities. In addition, we have no control over the ability of our contract manufacturers to maintain adequate quality control, quality assurance and qualified personnel. If the FDA or comparable foreign regulatory authority finds that these facilities do not comply with cGMP, we may need to find alternative manufacturing facilities, which would significantly impact our ability to develop, obtain marketing approval for or market COSELA. Further, our failure, or the failure of our third party manufacturers, to comply with these or other applicable regulations could result in sanctions being imposed on us, including clinical holds, fines, injunctions, civil penalties, delays, suspension or withdrawal of approvals, license revocation, seizures or recalls of product or drugs, if approved, operating restrictions and criminal prosecutions, any of which could significantly and adversely affect our business and supplies of COSELA.

We may be unable to establish any agreements with third-party manufacturers or do so on acceptable terms. Even if we are able to establish agreements with third party manufacturers, reliance on third party manufacturers entails additional risks, including:

- reliance on the third party for regulatory compliance and quality assurance;
- the possible breach of the manufacturing agreement by the third party;
- the possible misappropriation of our proprietary information, including our trade secrets and know-how; and
- the possible termination or nonrenewal of the agreement by the third party at a time that is costly or inconvenient for us.

COSELA may compete with other product candidates and approved drugs for access to manufacturing facilities. There are a limited number of manufacturers that operate under cGMP regulations and that might be capable of manufacturing for us.

Any performance failure on the part of our existing or future manufacturers could delay clinical development, marketing approval, or commercialization efforts. If our current contract manufacturers cannot perform as agreed, we may be required to replace such manufacturers. Although we believe that there are several potential alternative manufacturers who could manufacture our product, we may incur added costs and delays in identifying and qualifying any such replacements.

Our current and anticipated future dependence upon others for the manufacture of our product or drugs may adversely affect our future profit margins and our ability to commercialize any drugs that receive marketing approval on a timely and competitive basis.

The third parties upon which we rely for the supply of the drug substance, and drug products are our sole sources of supply and have limited capacity, and the loss of any of these suppliers could harm our business.

Some drug substances and drug products for our product are supplied to us from single source suppliers with limited capacity. Our ability to successfully develop our product, and to ultimately supply our commercial drugs in quantities sufficient to meet the market demand, depends in part on our ability to obtain the drug substances and drug products in accordance with cGMP requirements and in sufficient quantities for clinical trials and commercialization. It is possible that our suppliers of drug substance or drug product which are not dual-sourced could, for any reason, cease their operations.

We do not know whether our suppliers will be able to meet our demand, either because of the nature of our agreements with those suppliers, our limited experience with those suppliers or our relative importance as a customer to those suppliers. It may be difficult for us to assess their ability to timely meet our demand in the future based on past performance. While our suppliers have generally met our demand for their products on a timely basis in the past, they may subordinate our needs in the future to their other customers.

For our product, we intend to identify and qualify additional manufacturers to provide drug substances and drug products. Establishing additional or replacement suppliers for drug substances and drug products for our product, if required, may not be accomplished quickly. If we are able to find a replacement supplier, such replacement supplier would need to be qualified, or we may have to perform comparative studies comparing the drug product from a new manufacturer to the product used in any completed clinical trials. All of this may require additional regulatory approval, which could result in further delay. While we seek to maintain adequate inventory of drug substance and drug product for our product, any interruption or delay in the supply of components or materials, or our inability to obtain such drug substance and drug product from alternate sources at acceptable prices in a timely manner could impede, delay, limit, or prevent our development efforts, which could harm our business, results of operations, financial condition, and prospects.

We, or our third-party manufacturers, may be unable to successfully scale-up manufacturing of COSELA in sufficient quality and quantity, which would delay or prevent us from developing and commercializing COSELA.

In order to conduct large-scale clinical trials of COSELA, or successfully commercialize COSELA, we will need to manufacture them in large quantities. We, or any of our manufacturing partners, may be unable to successfully increase the manufacturing capacity of COSELA in a timely or cost-effective manner, or at all. In addition, quality issues may arise during scale-up activities. If we, or any manufacturing partners, are unable to successfully scale up the manufacture COSELA in sufficient quality and quantity, the development, testing, and clinical trials of the product may be delayed or infeasible, and regulatory approval or commercial launch of any resulting product may be delayed or not obtained, which could significantly harm our business.

We have entered into a license agreement for the development of COSELA in greater China, and intend to continue to use third-party collaborators to help us develop and commercialize any new products, and our ability to commercialize such products could be impaired or delayed if these collaborations are unsuccessful.

Our drug development programs and the potential commercialization of COSELA will require substantial additional cash to fund expenses. We may decide to collaborate with pharmaceutical and biotechnology companies for the development and potential commercialization of COSELA.

We have entered into license agreements with third-parties, and may continue to selectively pursue strategic collaborations, for the development and commercialization of our products. In August 2020, we entered into a license agreement with Nanjing Simcere Dongyuan Pharmaceutical Co., Ltd, for the development and commercialization of COSELA in Greater China.

In our third-party collaborations, we are dependent upon the success of the collaborators to perform their responsibilities with continued cooperation. Our collaborators may not cooperate with us or perform their obligations under our agreements with them. We cannot control the amount and timing of our collaborators' resources that will be devoted to performing their responsibilities under our agreements with them. Our collaborators may choose to pursue alternative therapies in preference to those being developed in collaboration with us. Development and commercialization will be delayed if collaborators fail to conduct their responsibilities in a timely manner or in accordance with applicable regulatory requirements or if they breach or terminate their collaboration agreements with us. Disputes with our collaborators could also impair our reputation or result in development delays, decreased revenues, and litigation expenses.

We face significant competition in seeking additional appropriate collaborators. Whether we reach a definitive agreement for a collaboration will depend, among other things, upon our assessment of the collaborator's resources and expertise, the terms and conditions of the proposed collaboration and the proposed collaborator's evaluation of a number of factors. Those factors may include the design or results of clinical trials, the likelihood of approval by the FDA or similar regulatory authorities outside the United States, the potential market for the subject product, the costs and complexities of manufacturing and delivering such product to patients, the potential of competing drugs and market conditions generally. The proposed collaborator may also consider alternative product candidates or technologies for similar indications that may be available to collaborate on and whether such a collaboration could be more attractive than the one with us for our product. The terms of any collaborations or other arrangements that we may establish may not be favorable to us.

We may also be restricted under existing collaboration agreements from entering into future agreements on certain terms with potential collaborators. Collaborations are complex and time-consuming to negotiate and document. In addition, there have been a significant number of recent business combinations among large pharmaceutical companies that have resulted in a reduced number of potential future collaborators. We may not be able to negotiate collaborations on a timely basis, on acceptable terms, or at all. If we are unable to do so, we may have to curtail the development of the product for which we are seeking to collaborate, reduce or delay its development program or one or more of our other development programs, delay its potential commercialization or reduce the scope of any sales or marketing activities, or increase our expenditures and undertake development or commercialization activities at our own expense. If we elect to increase our expenditures to fund development or commercialization activities on our own, we may need to obtain additional capital, which may not be available to us on acceptable terms or at all. If we do not have sufficient funds, we may not be able to further develop COSELA or bring it to market and generate drug revenue.

In addition, any collaboration that we enter into may not be successful. The success of our collaboration arrangements will depend heavily on the efforts and activities of our collaborators. Collaborators generally have significant discretion in determining the efforts and resources that they will apply to these collaborations. Any such collaboration may require us to incur non-recurring or other charges, increase our near- and long-term expenditures and pose significant integration or implementation challenges or disrupt our management or business. These transactions would entail numerous operational and financial risks, including exposure to unknown liabilities, disruption of our business and diversion of our management's time and attention in order to manage a collaboration, incurrence of substantial debt or dilutive issuances of equity securities to pay transaction consideration or costs, higher than expected collaboration or integration costs, write-down of assets or goodwill or impairment charges, increased amortization expenses and difficulty and cost in facilitating the collaboration.

Lastly, disagreements between parties to a collaboration arrangement regarding clinical development and commercialization matters can lead to delays in the development process or commercializing a product and, in some cases, termination of the collaboration arrangement. These disagreements can be difficult to resolve if neither of the parties has final decision-making authority. Collaborations with pharmaceutical or biotechnology companies and other third parties often are terminated or allowed to expire by the other party. Any such termination or expiration would adversely affect us financially and could harm our business reputation.

Risks related to our intellectual property

If we are unable to obtain and maintain intellectual property protection for our technology and products, or if the scope of the intellectual property protection obtained is not sufficiently broad, our competitors could commercialize technology and products similar or identical to ours, and our ability to successfully commercialize our technology and products may be impaired and, if we infringe the valid patent rights of others, we may be prevented from making, using or selling our products or may be subject to damages or penalties.

Our success depends in large part on our ability to obtain and maintain patents in the United States and other countries that adequately protect our proprietary technology and products. We seek to protect our proprietary position by filing patent applications in the United States and in foreign countries that cover COSELA and its uses, pharmaceutical formulations and dosages, and processes for the manufacture of it. Our patent portfolio currently includes both patents and patent applications.

The patent prosecution process is expensive and time-consuming. We may not be able to file and prosecute all necessary or desirable patent applications at a reasonable cost or in a timely manner. We may choose not to seek patent protection for certain innovations and may choose not to pursue patent protection in certain jurisdictions. Under the laws of certain jurisdictions, patents or other intellectual property rights may be unavailable or limited in scope. It is also possible that we will fail to identify patentable aspects of our research and development before it is too late to obtain patent protection.

We currently solely own or exclusively license our patents and patent applications and we have the right to control the prosecution of the in-licensed patent applications. In the future, we may choose to in-license additional patents or patent applications from third parties that we conclude are useful or necessary for our business goals. We may not have the right to control the preparation, filing, prosecution or maintenance of such patent applications. Therefore, if we do license additional patents or patent applications in the future, these patents and applications may not be prosecuted and enforced in a manner consistent with the best interests of our business.

The patent position of biotechnology and pharmaceutical companies generally is highly uncertain, involves complex legal and factual questions and has in recent years been the subject of much litigation. Publications of discoveries in the scientific literature often lag behind the actual discoveries, and patent applications in the United States and other jurisdictions are typically not published until 18 months after filing, or in some cases not at all. Therefore, we cannot know with certainty whether we were the first to make the inventions claimed in our owned or licensed patents or pending patent applications, or that we were the first to file for patent protection of such inventions. As a result, the issuance, scope, validity, enforceability and commercial value of our patent rights are highly uncertain. Our pending and future patent applications may not result in patents being issued which protect our technology or products, in whole or in part, or which effectively prevent others from commercializing competitive technologies and products. Changes in either the patent laws or interpretation of the patent laws in the United States and other countries may diminish the value of our patents or narrow the scope of our patent protection.

Recent patent reform legislation could increase the uncertainties and costs surrounding the prosecution of our patent applications and the enforcement or defense of our issued patents. On September 16, 2011, the Leahy-Smith America Invents Act, or the Leahy-Smith Act, was signed into law. The Leahy-Smith Act includes a number of significant changes to U.S. patent law. These include provisions that affect the way patent applications are prosecuted and may also affect patent litigation. The U.S. Patent and Trademark Office, or U.S. PTO, recently developed new regulations and procedures to govern administration of the Leahy-Smith Act, and many of the substantive changes to patent law associated with the Leahy-Smith Act, and in particular, the first to file provisions, became effective on March 16, 2013. The Leahy-Smith Act also created certain new administrative adversarial proceedings, discussed below. It is not clear what, if any, impact the Leahy-Smith Act will have on the operation of our business. However, the Leahy-Smith Act and its implementation could increase the uncertainties and costs surrounding the prosecution of our patent applications and the enforcement or defense of our issued patents, all of which could have a material adverse effect on our business and financial condition.

The U.S. Supreme Court has issued opinions in patent cases in the last few years that many consider may weaken patent protection in the United States, either by narrowing the scope of patent protection available in certain circumstances, holding that certain kinds of innovations are not patentable or generally otherwise making it easier to invalidate patents in court. Additionally, there have been recent proposals for additional changes to the patent laws of the United States and other countries that, if adopted, could impact our ability to obtain patent protection for our proprietary technology or our ability to enforce our proprietary technology. Depending on future actions by the U.S. Congress, the U.S. courts, the U.S. PTO and the relevant law-making bodies in other countries, the laws and regulations governing patents could change in unpredictable ways that would weaken our ability to obtain new patents or to enforce our existing patents and patents that we might obtain in the future.

The recently-passed Inflation Reduction Act may impact our future strategies and results of operations as it pertains to COSELA. Passed by the 117th United States Congress and signed into law by President Joe Biden on August 16, 2022, the Inflation Reduction Act of 2022 is landmark legislation which may significantly impact the pharmaceutical industry.

Even if our patent applications issue as patents, they may not issue in a form that will provide us with any meaningful protection, prevent competitors from competing with us or otherwise provide us with any competitive advantage. Our competitors may be able to circumvent our owned or licensed patents by developing similar or alternative technologies or products in a non-infringing manner.

The issuance of a patent is not conclusive as to its inventorship, scope, validity or enforceability, and our owned and licensed patents may be challenged in the courts or patent offices in the United States and in other countries. Such challenges may result in loss of exclusivity or in patent claims being narrowed, invalidated or held unenforceable, in whole or in part, which could limit our ability to stop others from using or commercializing similar or identical technology and products, or limit the duration of the patent protection of our technology and products. Given the amount of time required for the development, testing and regulatory review of new product candidates, patents protecting such candidates might expire before or shortly after such candidates are commercialized. As a result, our owned and licensed patent portfolio may not provide us with sufficient rights to exclude others from commercializing products similar or identical to ours. Likewise, a court could uphold and enforce a third-party patent that it rules we have infringed, which would subject us to damages or prevent us from making, using or selling our products.

During patent prosecution in the United States and in most foreign countries, a third party can submit prior art or arguments to the reviewing patent office to attempt to prevent the issuance of a competitor's patent. For example, our pending patent applications may be subject to a third-party pre-issuance submission of prior art to the U.S. PTO or an Observation in Europe. Such submission may convince the receiving patent office not to issue the patent. In addition, if the breadth or strength of protection provided by our patents and patent applications is reduced by such third-party submission, it could affect the value of our resulting patent or dissuade companies from collaborating with us to license, develop or commercialize current or future products.

The risks described here pertaining to our patents and other intellectual property rights also apply to any intellectual property rights that we may license in the future, and any failure to obtain, maintain and enforce these rights could have a material adverse effect on our business. In some cases, we may not have control over the prosecution, maintenance or enforcement of the patents that we license, and our licensors may fail to take the steps that we believe are necessary or desirable in order to obtain, maintain and enforce the licensed patents. Any inability on our part to adequately protect or defend our intellectual property may have a material adverse effect on our business, operating results and financial position.

We may become involved in administrative adversarial proceedings in the U.S. PTO or in the patent offices of foreign countries brought by a third party to attempt to cancel or invalidate our patent rights, which could be expensive, time consuming and cause a loss of patent rights.

The Leahy-Smith Act created for the first time new procedures to challenge issued patents in the United States, including post-grant review and *inter partes* review proceedings, which some third parties have been using to cause the cancellation of selected or all claims of issued patents of competitors. For a patent with a priority date of March 16, 2013 or later, a petition for post-grant review can be filed by a third party in a nine-month window from issuance of the patent. A petition for *inter partes* review can be filed immediately following the issuance of a patent if the patent was filed prior to March 16, 2013. A petition for *inter partes* review can be filed after the nine-month period for filing a post-grant review petition has expired for a patent with a priority date of March 16, 2013 or later. Post-grant review proceedings can be brought on any ground of challenge, whereas *inter partes* review proceedings can only be brought to raise a challenge based on published prior art. These administrative adversarial actions at the U.S. PTO review patent claims without the presumption of validity afforded to U.S. patents in lawsuits in U.S. federal courts, use a lower burden of proof than used by U.S. federal courts. The U.S. PTO issued a Final Rule on November 11, 2018, announcing that it will now use the same claim construction currently used in the U.S. federal courts to interpret patent claims, which is the plain and ordinary meaning of words used. If any of our patents are challenged by a third party in such a U.S. patent office proceeding, there is no guarantee that we will be successful in defending the patent, which would result in a loss of the challenged patent right to us. Further, even if a U.S. federal court or PTAB rules that a patent owned by us is valid and enforceable, if the other venue takes a contrary position, the patent is considered invalid and not enforceable. Therefore, a party seeking to invalidate a patent owned by us in the United States has the procedural advantage of two alternative venues.

Opposition or invalidation procedures are also available in most foreign countries. Many foreign authorities, such as the authorities at the European Patent Office, have only post-grant opposition proceedings, however, certain countries, such as India, have both pre-grant and post-grant opposition proceedings. These procedures have been used frequently against pharmaceutical patents in foreign countries. For example, in some foreign countries, these procedures are used by generic companies to hold up an innovator's patent rights as a means to allow the generic company to enter the market. This activity is particularly prevalent in India, China and South America and may become more prevalent in Africa and other parts of Asia as certain countries reach more established economies. If any of our patents are challenged in a foreign opposition or invalidation proceeding, we could face significant costs to defend our patents, and we may not be successful. Uncertainties resulting from the initiation, continuation or loss of such proceedings could have a material adverse effect on our ability to compete in the market place. Further, in many foreign jurisdictions, the losing party must pay the attorneys' fees of the winning party, which can be substantial.

We may have to file one or more lawsuits in court to prevent a third party from selling a product or using a product in a manner that infringes our patent, which could be expensive, time consuming and unsuccessful, and ultimately result in the loss of our proprietary market.

Because competition in our industry is intense, competitors may infringe or otherwise violate our issued patents, patents of our licensors or other intellectual property. To counter infringement or unauthorized use, we may be required to file infringement lawsuits, which can be expensive and time consuming. Any claims we assert against perceived infringers could provoke these parties to assert counterclaims against us alleging that we infringe their patents. In addition, in a patent infringement proceeding, a court may decide that a patent of ours is invalid or unenforceable, in whole or in part, construe the patent's claims narrowly or refuse to stop the other party from using the technology at issue on the grounds that our patents do not cover the technology in question. An adverse result in any litigation proceeding could put one or more of our patents at risk of being invalidated or interpreted narrowly. We may also elect to enter into license agreements in order to settle patent infringement claims or to resolve disputes prior to litigation, and any such license agreements may require us to pay royalties and other fees that could be significant. Furthermore, because of the substantial amount of discovery required in connection with intellectual property litigation, there is a risk that some of our confidential information could be compromised by disclosure.

Because our CDK 4/6 inhibitor candidates are small molecules, after commercialization they will be subject in the United States to the patent litigation process of the Hatch Waxman Act, which allows a generic company to submit an Abbreviated New Drug Application, or ANDA, to the FDA to obtain approval to sell our drug using bioequivalence data only. Under the Hatch Waxman Act, we will have the opportunity to list all of our patents that cover our drug product or its method of use in the FDA's compendium of "Approved Drug Products with Therapeutic Equivalence Evaluation," sometimes referred to as the FDA's Orange Book. A generic company can submit an ANDA to the FDA four years after our drug approval because our drug products candidates, COSELA and lerociclib, would be deemed new chemical entities. The submission of the ANDA by a generic company is considered a technical act of patent infringement. The generic company can certify that it will wait until the natural expiration date of our listed patents to sell a generic version of our product or can certify that one or more of our listed patents are invalid, unenforceable, or not infringed. If the latter, we will have 45 days to bring a patent infringement lawsuit against the generic company. This will initiate a challenge to one or more of our Orange Book listed patents based on arguments from the generic company that either our patent is invalid, unenforceable or not infringed. Under the Hatch Waxman Act, if a lawsuit is brought, the FDA is prevented from issuing a final approval on the generic drug until the earlier of seven-and-a-half years from our drug approval or a final decision of a court holding that our asserted patent claims are invalid, unenforceable or not infringed. If we do not properly list our relevant patents in the Orange Book, or timely file a lawsuit in response to a certification from a generic company under an ANDA, or if we do not prevail in the resulting patent litigation, we can lose our proprietary market, which can rapidly become generic. Further, even if we do correctly list our relevant patents in the Orange Book, bring a lawsuit in a timely manner and prevail in that lawsuit, it may be at a very significant cost to us of attorneys' fees and employee time and distraction over a long period. Further, it is common for more than one generic company to try to sell an innovator drug at the same time, and so we may be faced with the cost and distraction of multiple lawsuits. We may also determine it is necessary to settle the lawsuit in a manner that allows the generic company to enter our market prior to the expiration of our patent or otherwise in a manner that adversely affects the strength, validity or enforceability of our patent.

Third parties may initiate legal proceedings alleging that we are infringing their intellectual property rights, the outcome of which would be uncertain and could have a material adverse effect on the success of our business.

We may become party to, or threatened with, adversarial proceedings or litigation regarding intellectual property rights covering our products and technology, including inter parties review proceedings before the U.S. PTO. Third parties may assert infringement claims against us based on existing patents or patents that may be granted in the future. For example, we are aware that many companies, universities and institutions, including competitors, have filed patent applications and received issued patents in our general areas of CDK 4/6 inhibitors and their uses in methods of treatment and combinations with other drugs as well as their processes of manufacture. If we are found to infringe a third party's intellectual property rights, we could be required to litigate the validity or enforceability of the third-party asserted patent, which may be expensive, time-consuming and distracting to the company, and which litigation we may lose. We may, instead of litigating, seek to obtain a license from such third party to continue developing and marketing our products and technology. However, we may not be able to obtain any required license on commercially reasonable terms or at all. Even if we were able to obtain a license, it could be non-exclusive, thereby giving our competitors access to the same technologies licensed to us. We could be forced, including by court order, to cease commercializing the infringing technology or product. In addition, we could be found liable for monetary damages, including treble damages and attorneys' fees if we are found to have willfully infringed a patent. A finding of infringement could prevent us from commercializing COSELA or force us to cease some of our business operations, which could materially harm our business. Claims that we have misappropriated the confidential information or trade secrets of third parties could have a similar negative impact on our business.

We may not be able to effectively enforce our intellectual property rights throughout the world.

Filing, prosecuting and defending patents on COSELA and lerociclib in all countries throughout the world would be prohibitively expensive, and therefore we only file for patent protection in selected countries. The requirements for patentability may differ in certain countries, particularly in developing countries. Moreover, our ability to protect and enforce our intellectual property rights may be adversely affected by unforeseen changes in foreign intellectual property laws.

The laws of foreign countries may not protect our rights to the same extent as the laws of the United States. For example, Europe, India, China and certain other countries do not allow patents for methods of treating the human body. Many companies have encountered significant problems in protecting and defending intellectual property rights in certain foreign jurisdictions that do not favor patent protection on drugs. This could make it difficult for us to stop the infringement of our patents or the misappropriation of our other intellectual property rights. Competitors may use our technologies in jurisdictions where we have not obtained patent protection to develop their own drugs and, further, may export otherwise infringing drugs to territories where we have patent protection, if our ability to enforce our patents to stop infringing activities is inadequate. These drugs may compete with COSELA, and our patents or other intellectual property rights may not be effective or sufficient to prevent them from competing.

Proceedings to enforce our patent rights in foreign jurisdictions, whether or not successful, could result in substantial costs and divert our efforts and resources from other aspects of our business. Furthermore, while we intend to protect our intellectual property rights in the major markets for COSELA, we cannot ensure that we will be able to initiate or maintain similar efforts in all jurisdictions in which we may wish to market it. Accordingly, our efforts to protect our intellectual property rights in such countries may be inadequate.

A number of foreign countries have stated that they are willing to issue compulsory licenses to patents held by innovator companies on approved drugs to allow the government or one or more third party companies to sell the approved drug without the permission of the innovator patentee where the foreign government concludes it is in the public interest. India, for example, has used such a procedure to allow domestic companies to make and sell patented drugs without innovator approval. There is no guarantee that patents covering any of our drugs will not be subject to a compulsory license in a foreign country, or that we will have any influence over if or how such a compulsory license is granted. Further, Brazil allows its regulatory agency ANVISA to participate in deciding whether to grant a drug patent in Brazil, and patent grant decisions are made based on several factors, including whether the patent meets the requirements for a patent and whether such a patent is deemed in the country's interest. In addition, several other countries have created laws that make it more difficult to enforce drug patents than patents on other kinds of technologies. Further, under the treaty on the Trade-Related Aspects of Intellectual Property, or TRIPS, as interpreted by the Doha Declaration, countries in which drugs are manufactured are required to allow exportation of the drug to a developing country that lacks adequate manufacturing capability. Therefore, our drug markets in the United States or foreign countries may be affected by the influence of current public policy on patent issuance, enforcement or involuntary licensing in the healthcare area.

In addition, in November 2015, members of the World Trade Organization, or the WTO, which administers TRIPS, voted to extend the exemption against enforcing pharmaceutical drug patents in least developed countries until 2033. We currently have no patent applications filed in least developed countries, and our current intent is not to file in these countries in the future, at least in part due to this WTO pharmaceutical patent exemption.

If we are unable to protect the confidentiality of our trade secrets, our business and competitive position would be harmed.

In addition to seeking patents for some of our technology and products, we also rely on trade secrets, including unpatented know-how, technology and other proprietary information, to maintain our competitive position. We seek to protect these trade secrets, in part, by entering into non-disclosure and confidentiality agreements with parties who have access to them, such as our employees, corporate collaborators, outside scientific collaborators, contract manufacturers, consultants, advisors and other third parties. We seek to protect our confidential proprietary information, in part, by entering into confidentiality and invention or patent assignment agreements with our employees and consultants, however, we cannot be certain that such agreements have been entered into with all relevant parties. Moreover, to the extent we enter into such agreements, any of these parties may breach the agreements and disclose our proprietary information, including our trade secrets, and we may not be able to obtain adequate remedies for such breaches. Enforcing a claim that a party illegally disclosed or misappropriated a trade secret is difficult, expensive and time-consuming, and the outcome is unpredictable. In addition, some courts inside and outside the United States are less willing or unwilling to protect trade secrets. If any of our trade secrets were to be lawfully obtained or independently developed by a competitor, we would have no right to prevent them, or those to whom they communicate it, from using that technology or information to compete with us. If any of our trade secrets were to be disclosed to or independently developed by a competitor, our competitive position would be harmed.

A number of pharmaceutical companies have been the subject of intense review by the U.S. Federal Trade Commission or a corresponding agency in another country based on how they have conducted or settled drug patent litigation, and certain reviews have led to an allegation of an anti-trust violation, sometimes resulting in a fine or loss of rights. We cannot be sure that we would not also be subject to such a review or that the result of the review would be favorable to us, which could result in a fine or penalty.

The U.S. Federal Trade Commission, or FTC, has brought a number of lawsuits in federal court in the past few years to challenge Hatch Waxman ANDA litigation settlements between innovator companies and generic companies as anti-competitive. The FTC has taken an aggressive position that anything of value is a payment, whether money is paid or not. Under their approach, if an innovator as part of a patent settlement agrees not to launch or delay launch of an authorized generic during the 180-day period granted to the first generic company to challenge an Orange Book listed patent covering an innovator drug, or negotiates a delay in entry without payment, the FTC may consider it an unacceptable reverse payment. The biopharmaceutical industry argues that such agreements are rational business decisions to dismiss risk and are immune from antitrust attack if the terms of the settlement are within the scope of the exclusionary potential of the patent. In 2013, the U.S. Supreme Court, in a five-to-three decision in *FTC v. Actavis, Inc.* rejected both the biopharmaceutical industry's and FTC's arguments with regard to so-called reverse payments, and held that whether a "reverse payment" settlement involving the exchange of consideration for a delay in entry is subject to an anticompetitive analysis depends on five considerations: (a) the potential for genuine adverse effects on competition; (b) the justification of payment; (c) the patentee's ability to bring about anticompetitive harm; (d) whether the size of the payment is a workable surrogate for the patent's weakness; and (e) that antitrust liability for large unjustified payments does not prevent litigating parties from settling their lawsuits, for example, by allowing the generic to enter the market before the patent expires without the patentee's paying the generic. Furthermore, whether a reverse payment is justified depends upon its size, its scale in relation to the patentee's anticipated future litigation costs, its independence from other services for which it might represent payment, as was the case in *Actavis*, and the lack of any other convincing justification. The Court held that reverse payment settlements can potentially violate antitrust laws and are subject to the standard antitrust rule-of-reason analysis, with the burden of proving that an agreement is unlawful on the FTC and leaving to lower courts the structuring of such rule of reason analysis. If we are faced with drug patent litigation, including Hatch Waxman litigation with a generic company, we could be faced with such an FTC challenge based on that activity, including how or whether we settle the case, and even if we strongly disagree with the FTC's position, we could face a significant expense or penalty.

Some intellectual property may have been discovered through government funded programs and thus may be subject to federal regulations such as "march-in" rights, certain reporting requirements and a preference for U.S.-based companies. Compliance with such regulations may limit our exclusive rights, and limit our ability to contract with non-U.S. manufacturers.

Many of our intellectual property rights were generated through the use of U.S. government funding and are therefore subject to certain federal regulations. As a result, the U.S. government may have certain rights to intellectual property embodied in our current or future product candidates pursuant to the Bayh-Dole Act of 1980, or Bayh-Dole Act. These U.S. government rights in certain inventions developed under a government-funded program include a non-exclusive, non-transferable, irrevocable worldwide license to use inventions for any governmental purpose. In addition, the U.S. government has the right, under certain limited circumstances, to require us to grant exclusive, partially exclusive, or non-exclusive licenses to any of these inventions to a third party if it determines that: (i) adequate steps have not been taken to commercialize the invention; (ii) government action is necessary to meet public health or safety needs; or (iii) government action is necessary to meet requirements for public use under federal regulations (also referred to as "march-in rights"). The U.S. government also has the right to take title to these inventions if we fail to disclose the invention to the government or fail to file an application to register the intellectual property within specified time limits. Intellectual property generated under a government funded program is also subject to certain reporting requirements, compliance with which may require us to expend substantial resources. In addition, the U.S. government requires that any products embodying the subject invention or produced through the use of the subject invention be manufactured substantially in the United States. The manufacturing preference requirement can be waived if the owner of the intellectual property can show that reasonable but unsuccessful efforts have been made to grant licenses on similar terms to potential licensees that would be likely to manufacture substantially in the United States or that under the circumstances domestic manufacture is not commercially feasible. This preference for U.S. manufacturers may limit our ability to contract with non-U.S. product manufacturers for products covered by such intellectual property. To the extent any of our current or future intellectual property is generated through the use of U.S. government funding, the provisions of the Bayh-Dole Act may similarly apply.

Obtaining and maintaining our patent protection depends on compliance with various procedural, document submission, fee payment and other requirements imposed by governmental patent agencies, and our patent protection could be reduced or eliminated for non-compliance with these requirements.

Periodic maintenance fees, renewal fees, annuity fees and various other governmental fees on patents and/or applications will be due to be paid to the U.S. PTO and various governmental patent agencies outside of the United States in several stages over the lifetime of the patents and/or applications. We have systems in place to remind us to pay these fees, and we employ an outside firm and rely on our outside counsel to pay these fees due to non-U.S. patent agencies. We employ reputable law firms and other professionals to help us comply, and in many cases, an inadvertent lapse can be cured by payment of a late fee or by other means in accordance with the applicable rules. However, there are situations in which non-compliance can result in abandonment or lapse of the patent or patent application, resulting in partial or complete loss of patent rights in the relevant jurisdiction. In such an event, our competitors might be able to enter the market and this circumstance would have a material adverse effect on our business.

Intellectual property litigation could cause us to spend substantial resources and distract our personnel from their normal responsibilities.

Litigation or other legal proceedings relating to intellectual property claims, with or without merit, is unpredictable and generally expensive and time consuming and is likely to divert significant resources from our core business, including distracting our technical and management personnel from their normal responsibilities. Furthermore, because of the substantial amount of discovery required in connection with intellectual property litigation, there is a risk that some of our confidential information could be compromised by disclosure during this type of litigation. In addition, there could be public announcements of the results of hearings, motions or other interim proceedings or developments and if securities analysts or investors perceive these results to be negative, it could have a substantial adverse effect on the price of our common stock. Such litigation or proceedings could substantially increase our operating losses and reduce the resources available for development activities or any future sales, marketing or distribution activities.

We may not have sufficient financial or other resources to adequately conduct such litigation or proceedings. Some of our competitors may be able to sustain the costs of such litigation or proceedings more effectively than we can because of their greater financial resources and more mature and developed intellectual property portfolios. Accordingly, despite our efforts, we may not be able to prevent third parties from infringing upon or misappropriating or from successfully challenging our intellectual property rights. Uncertainties resulting from the initiation and continuation of patent litigation or other proceedings could have a material adverse effect on our ability to compete in the marketplace.

We may be subject to claims by third parties asserting that our employees or we have misappropriated their intellectual property, or claiming ownership of what we regard as our own intellectual property.

Many of our employees were previously employed at universities or other biotechnology or pharmaceutical companies, including our competitors or potential competitors. Although we try to ensure that our employees do not use the proprietary information or know-how of others in their work for us, we may be subject to claims that these employees or we have used or disclosed intellectual property, including trade secrets or other proprietary information, of any such employee's former employer. Litigation may be necessary to defend against these claims.

In addition, while it is our policy to require our employees and contractors who may be involved in the development of intellectual property to execute agreements assigning such intellectual property to us, we may be unsuccessful in executing such an agreement with each party who in fact develops intellectual property that we regard as our own. Our and their assignment agreements may not be self-executing or may be breached, and we may be forced to bring claims against third parties, or defend claims they may bring against us, to determine the ownership of what we regard as our intellectual property.

If we fail in prosecuting or defending any such claims, in addition to paying monetary damages, we may lose valuable intellectual property rights or personnel. Even if we are successful in prosecuting or defending against such claims, litigation could result in substantial costs and be a distraction to management.

Risks related to our common stock

The price of our common stock may be volatile and fluctuate substantially.

The market price of shares of our common stock could be subject to wide fluctuations in response to many risk factors listed in this section, and others beyond our control, including:

- results of preclinical and clinical trials;
- results of clinical trials of our competitors' products;
- regulatory actions with respect to our products or our competitors' products;
- actual or anticipated fluctuations in our financial condition and operating results;
- publication of research reports by securities analysts about us or our competitors or our industry;
- our failure or the failure of our competitors to meet analysts' projections or guidance that we or our competitors may give to the market;
- developments or disputes concerning patent applications, issued patents or other proprietary rights;
- additions and departures of key personnel;
- strategic decisions by us or our competitors, such as acquisitions, collaborations, divestitures, spin-offs, joint ventures, strategic investments or changes in business strategy;
- the passage of legislation or other regulatory developments in the United States and other countries affecting us or our industry;
- fluctuations in the valuation of companies perceived by investors to be comparable to us;
- sales of our common stock by us, our insiders or our other stockholders;
- speculation in the press or investment community;
- announcement or expectation of additional financing efforts;
- changes in accounting principles;
- changes in the structure of healthcare payment systems;
- terrorist acts, acts of war or periods of widespread civil unrest;
- natural disasters and other calamities;
- changes in market conditions for pharmaceutical and biopharmaceutical stocks;
- changes in general market, industry and economic conditions, including global economic uncertainty, rising inflation, rising interest rates, market disruptions and volatility in commodity prices; and
- the other factors described in this "Risk Factors" section.

In addition, the stock market has experienced significant volatility, particularly with respect to pharmaceutical, biotechnology and other life sciences company stocks. The volatility of pharmaceutical, biotechnology and other life sciences company stocks often does not relate to the operating performance of the companies represented by the stock. In the past, securities class action litigation has often been initiated against companies following periods of volatility in their stock price. This type of litigation could result in substantial costs and divert our management's attention and resources, and could also require us to make substantial payments to satisfy judgments or to settle litigation.

Forecasting potential sales for COSELA is difficult, and if our projections are inaccurate, our business may be harmed and our stock price may be adversely affected.

Our business planning requires us to forecast or make assumptions regarding product demand and revenues for COSELA, despite numerous uncertainties. These uncertainties may be increased if we rely on third parties to conduct commercial activities in certain jurisdictions and provide us with accurate and timely information. Actual results may differ materially from projected results for various reasons, including the following, as well as risks identified in other risk factors:

- the efficacy and safety of COSELA, including as relative to marketed products and drug candidates in development by third parties;
- pricing (including discounting and other promotions), reimbursement, product returns or recalls, competition, labeling, adverse events and other items that impact commercialization;
- the rate of adoption in the particular market, including fluctuations in demand for various reasons;
- potential market size;
- lack of patient and physician familiarity with the drug product;
- lack of patient use and physician prescribing history;

- lack of commercialization experience with COSELA;
- uncertainty relating to when COSELA may become commercially available to patients in a particular jurisdiction and rate of adoption; and
- products provided without compensation through patient support programs or product sample programs, may not eventually result in or contribute to revenue-producing prescriptions.

We expect that our revenues from sales of COSELA will be based in part on estimates, judgment and accounting policies. Any incorrect estimates or disagreements with regulators or others regarding such estimates, judgment or accounting policies may result in changes to our guidance, projections or previously reported results. Expected and actual product sales and quarterly and other results may greatly fluctuate, including in the near-term, and such fluctuations can adversely affect the price of our common stock, perceptions of our ability to forecast demand and revenues, and our ability to maintain and fund our operations. The metrics that we are tracking in order to evaluate the success of our sales efforts may not correlate to commercial success, particularly given the challenging market for COSELA.

We have incurred and will continue to incur increased costs as a result of operating as a public company, and our management will be required to devote substantial time to new compliance initiatives and corporate governance practices.

As a public company, we have incurred and will continue to incur significant legal, accounting and other expenses. The Sarbanes-Oxley Act of 2002, the Dodd-Frank Wall Street Reform and Consumer Protection Act, the listing requirements of The Nasdaq Stock Market and other applicable securities rules and regulations impose various requirements on public companies, including establishment and maintenance of effective disclosure and financial controls and corporate governance practices. Our management and other personnel devote a substantial amount of time to these compliance initiatives. Moreover, these rules and regulations increase our legal and financial compliance costs and make some activities more time-consuming and costly. For example, these rules and regulations make it more difficult and more expensive for us to obtain director and officer liability insurance.

Provisions in our corporate charter documents and under Delaware law could make an acquisition of our company, which may be beneficial to our stockholders, more difficult and may prevent attempts by our stockholders to replace or remove our current management.

Provisions in our certificate of incorporation and our by-laws may discourage, delay or prevent a merger, acquisition or other change in control of our company that stockholders may consider favorable, including transactions in which you might otherwise receive a premium for your shares. These provisions could also limit the price that investors might be willing to pay in the future for shares of our common stock, thereby depressing the market price of our common stock. In addition, because our board of directors is responsible for appointing the members of our management team, these provisions may frustrate or prevent any attempts by our stockholders to replace or remove our current management by making it more difficult for stockholders to replace members of our board of directors. Although we believe these provisions collectively provide for an opportunity to obtain greater value for stockholders by requiring potential acquirers to negotiate with our board of directors, they would apply even if an offer rejected by our board of directors were considered beneficial by some stockholders. Among other things, these provisions:

- establish a classified board of directors such that only one of three classes of directors is elected each year;
- allow the authorized number of our directors to be changed only by resolution of our board of directors;
- limit the manner in which stockholders can remove directors from our board of directors;
- establish advance notice requirements for stockholder proposals that can be acted on at stockholder meetings and nominations to our board of directors;
- require that stockholder actions must be effected at a duly called stockholder meeting and prohibit actions by our stockholders by written consent;
- limit who may call stockholder meetings;
- authorize our board of directors to issue preferred stock without stockholder approval, which could be used to institute a “poison pill” that would work to dilute the stock ownership of a potential hostile acquirer, effectively preventing acquisitions that have not been approved by our board of directors; and
- require the approval of the holders of at least two-thirds of the voting power of all of the then-outstanding shares of capital stock that would be entitled to vote generally in the

election of directors to amend or repeal specified provisions of our certificate of incorporation or by-laws.

Moreover, because we are incorporated in Delaware, we are governed by the provisions of Section 203 of the Delaware General Corporation Law, which prohibits a person who owns in excess of 15% of our outstanding voting stock from merging or combining with us for a period of three years after the date of the transaction in which the person acquired in excess of 15% of our outstanding voting stock, unless the merger or combination is approved in a prescribed manner.

Our certificate of incorporation includes a forum selection clause, which could limit our stockholders' ability to obtain a favorable judicial forum for disputes with us.

Our certificate of incorporation provides that, unless we consent in writing to the selection of an alternative forum, the Court of Chancery of the State of Delaware will be the sole and exclusive forum for any stockholder to bring (i) any derivative action or proceeding brought on our behalf, (ii) any action asserting a claim of breach of a fiduciary duty owed by any of our directors, officers, or employees to us or to our stockholders, (iii) any action asserting a claim arising pursuant to any provision of the Delaware General Corporation Law or our certificate of incorporation or by-laws, or (iv) any action asserting a claim governed by the internal affairs doctrine; in all cases subject to the court's having personal jurisdiction over the indispensable parties named as defendants. Any person or entity purchasing or otherwise acquiring any interest in shares of our capital stock is deemed to have notice of and consented to the foregoing provisions. This forum selection provision in our certificate of incorporation may limit our stockholders' ability to obtain a favorable judicial forum for disputes with us. It is also possible that, notwithstanding the forum selection clause included in our certificate of incorporation, a court could rule that such a provision is inapplicable or unenforceable.

We do not anticipate paying any cash dividends on our capital stock in the foreseeable future.

We have never declared or paid cash dividends on our capital stock. We currently intend to retain all of our future earnings, if any, to finance the growth and development of our business. In addition, the terms of any future debt agreements may preclude us from paying dividends. As a result, capital appreciation, if any, of our common stock will be the sole source of gain for our stockholders for the foreseeable future.

Item 1B. Unresolved Staff Comments.

None.

Item 2. Properties.

Our corporate headquarters is located in Research Triangle Park, North Carolina, where we lease approximately 60,000 square feet of laboratory and office space. This lease on our corporate headquarters commenced in September 2019 and expires on September 30, 2027. None of our leases are material to our business operations. We believe our facility is adequate for our current needs and that suitable additional or substitute space would be available if needed.

Item 3. Legal Proceedings.

We are not currently subject to any material pending legal proceedings.

Item 4. Mine Safety Disclosures.

Not applicable.

PART II

Item 5. Market for Registrant’s Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities.

Market Information

Our common stock has traded on the Nasdaq Global Select Market under the symbol “GTHX” since May 17, 2017. Prior to that time, there was no public market for our common stock.

Holders

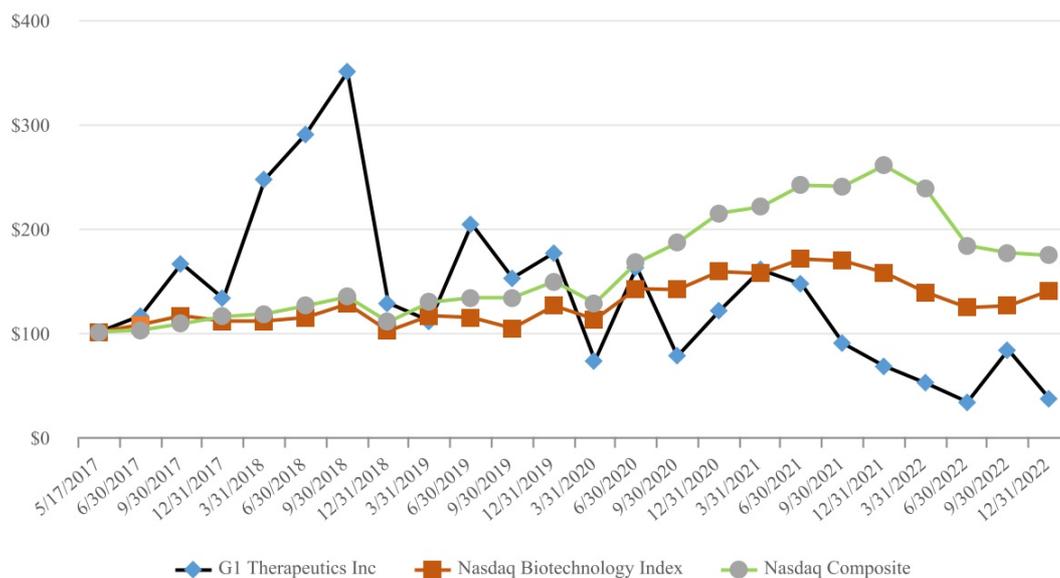
As of February 27, 2023, there were approximately 10 stockholders of record of our common stock. Holders of record are defined as those stockholders whose shares are registered in their names in our stock records and do not include beneficial owners of common stock whose shares are held in the names of brokers, dealers or clearing agencies.

Stock Performance Graph

This performance graph is not “soliciting material,” is not deemed filed with the SEC and is not to be incorporated by reference in any filing by us under the Securities Act of 1933 or the Securities Exchange Act of 1934, as amended, whether made before or after the date hereof and irrespective of any general incorporation language in any such filing. The stock price performance shown on the graph is not necessarily indicative of future price performance.

Comparison of Cumulative Total Return

Among G1 Therapeutics, Inc., the Nasdaq Biotechnology Index and the Nasdaq Composite Index



The above graph measures the change in a \$100 investment in our common stock from May 17, 2017 (the date our common stock commenced trading on the Nasdaq Global Select Market) through December 31, 2022. Our relative performance is then compared with the Nasdaq Composite Index and the Nasdaq Biotechnology Index.

Recent Sales of Unregistered Securities

None.

Equity Compensation Plans

The information required by Item 5 of Form 10-K regarding equity compensation plans is incorporated herein by reference from Item 12 of Part III of this Annual Report.

Purchases of Equity Securities by the Issuer and Affiliated Purchasers

We did not purchase any of our equity securities during the fiscal year 2022.

Item 6. [Reserved]

Item 7. Management’s Discussion and Analysis of Financial Condition and Results of Operations.

You should read the following discussion and analysis of our financial condition and results of operations together with our financial statements and related notes included elsewhere in this Annual Report. This discussion contains forward-looking statements that involve risk and uncertainties, such as statements of our plans, objectives, expectations and intentions. As a result of many factors, including those factors set forth in the “Risk Factors” section of this Annual Report, our actual results could differ materially from the results described in or implied by the forward-looking statements contained in the following discussion and analysis.

Overview

We are a commercial-stage biopharmaceutical company focused on the development and commercialization of novel small molecule therapeutics for the treatment of patients with cancer. Our first product approved by the U.S. Food and Drug Administration (“FDA”), COSELA® (trilaciclib), is the first and only therapy indicated to proactively help protect bone marrow from the damage of chemotherapy (myeloprotection) and is the first innovation in managing myeloprotection in decades. In July 2022, COSELA (trilaciclib hydrochloride for injection) was conditionally approved by the China National Medical Products Administration (NMPA) for marketing in China.

Trilaciclib was developed from a technology platform that targets key cellular pathways including transient arrest of the cell cycle at the G1 phase, prior to the beginning of DNA replication. Controlled administration and clean G1 arrest from transient CDK4/6 inhibition can protect bone marrow and reduce hematologic adverse events (“AEs”) caused by cytotoxic therapy and may increase the ability to receive longer treatment durations. Transient CDK4/6 inhibition also may improve survival in combination with leading and emerging treatments through myeloprotection, enabling increased cytotoxic exposure while protecting the immune system, and/or through immunomodulation, which may improve patients’ overall anti-tumor immune responses. We are exploring the use of trilaciclib in a variety of trials across multiple tumor types and treatment combinations to optimize these potential benefits of proactive multi-lineage myeloprotection and survival in combination with leading and emerging treatments for patients globally.

We use “COSELA” when referring to our FDA approved drug and “trilaciclib” when referring to our development of COSELA for additional indications.

COSELA is a prescription medicine used to help reduce the occurrence of low blood cell counts caused by damage to bone marrow from chemotherapy. COSELA is used to treat adults taking certain chemotherapies (platinum/etoposide or topotecan) for extensive-stage small cell lung cancer.

COSELA is an injection for intravenous (IV) use given within four hours before chemotherapy.

Commercial Product



On February 12, 2021, COSELA was approved by the FDA to decrease the incidence of chemotherapy-induced myelosuppression in adult patients treated with a platinum/etoposide-containing regimen or topotecan-containing regimen for ES-SCLC. COSELA became commercially available through our specialty distributor network on March 2, 2021.

We announced on March 25, 2021 that COSELA had been included in two updated National Comprehensive Cancer Network® (“NCCN”) Clinical Practice Guidelines in Oncology (NCCN Guidelines®): The Treatment Guidelines for Small Cell Lung Cancer and the Supportive Care Guidelines for Hematopoietic Growth Factors. These guidelines document evidence-based, consensus-driven management to ensure that all patients receive preventive, diagnostic, treatment, and supportive services that are most likely to lead to optimal outcomes. On October 1, 2021, we announced that the permanent J-code for COSELA that was issued in July 2021 by the Centers for Medicare & Medicaid Services (CMS) is now effective for provider billing for all sites of care. All hospital outpatient departments, ambulatory surgery centers and physician offices in the United States have one consistent Healthcare Common Procedure Coding System (HCPCS) code to standardize the submission and payment of COSELA insurance claims across Medicare, Medicare Advantage, Medicaid and commercial plans. Our new technology add-on payment (NTAP) for COSELA which provides additional payment to inpatient hospitals above the standard Medicare Severity Diagnosis-Related Group (MS-DRG) payment amount also became effective for provider billing on October 1, 2021.

We are also exploring potential use of trilaciclib in a variety of tumors, including breast cancer, bladder cancer, and in trials designed to inform the design of future additional pivotal studies across multiple tumor types and treatment combinations including certain chemotherapies, checkpoint inhibitors, and targeted chemotherapy medicines called antibody-drug conjugates (ADCs).

In June 2020, we entered into a three-year co-promotion agreement for COSELA in the United States and Puerto Rico with Boehringer Ingelheim Pharmaceuticals, Inc. (“Boehringer Ingelheim”). In December 2021, the Company and Boehringer Ingelheim mutually agreed to end the co-promotion agreement for COSELA, effective March 2022. At that time, we announced that we would hire and deploy our own oncology sales team to allow us to target all accounts to accelerate sales activities and help maximize the adoption of COSELA. As of February 21, 2022, all sales representatives were hired, trained, and deployed into their respective regions. Starting from the second quarter of 2022, the sales of COSELA have been solely conducted by the G1 COSELA sales team. As of the beginning of 2023, the sales team comprises approximately 30 sales representatives.

On August 3, 2020, we entered into an exclusive license agreement with Nanjing Simcere Dongyuan Pharmaceutical Co., Ltd (“Simcere”) for the development and commercialization of trilaciclib in all indications in Greater China (mainland China, Hong Kong, Macau and Taiwan). On July 13, 2022, the NMPA conditionally approved COSELA (trilaciclib hydrochloride for injection) for marketing in China. COSELA is indicated in China to decrease the incidence of chemotherapy-induced myelosuppression in adult patients when administered prior to a platinum/etoposide-containing regimen for ES-SCLC. As a result of receiving approval in China, Simcere paid the Company a \$13.0 million milestone (less applicable withholding taxes of \$1.3 million) payment in the third quarter of 2022. In total, we may receive up to \$156.0 million in milestone payments. We will also receive double-digit royalties on annual net sales of COSELA in China.

Product Pipeline

Trilaciclib is a first-in-class therapy designed to help protect against chemotherapy-induced myelosuppression. Trilaciclib, a novel transient IV CDK4/6 inhibitor has unique attributes including rapid onset from IV administration, potent and selective CDK4 and CDK6 inhibition and a short half-life. Controlled administration and clean G1-phase arrest reduce hematologic AEs caused by cytotoxic therapy and may increase patients’ abilities to receive longer treatment durations. Transient CDK4/6 inhibition also modulates multiple immune functions (“immunomodulation”) while allowing beneficial T cell proliferation which may improve patients’ anti-tumor immune responses.

Trilaciclib transiently blocks progression through the cell cycle. This provides benefits which manifest depending on the tumor type and therapeutic backbone, including: (1) proactive multi-lineage myeloprotection to protect the bone marrow from cytotoxic damage, and (2) potentially improved survival in combination with leading and emerging treatments.

We are pursuing trilaciclib across key growth platforms. First, trilaciclib provides proactive multi-lineage myeloprotection by transiently arresting hematopoietic stem and progenitor cells (“HSPCs”), helping to protect them from damage caused by cytotoxic therapy thereby minimizing cytopenias across neutrophils, erythrocytes, and platelets. These proactive multi-lineage myeloprotection benefits were seen in our three double-blind, placebo-controlled clinical trials in ES-SCLC, where highly myelosuppressive chemotherapy regimens are administered multiple days in a row. In addition, these multilineage myeloprotection benefits were seen in the initial Phase 2 trial of trilaciclib in combination with the antibody-drug conjugate, sacituzumab govitecan-hziy in patients with unresectable locally advanced or metastatic triple-negative breast cancer (TNBC). Initial data on the first 18 patients showed a clinically meaningful on-target effect of trilaciclib to reduce (>50%) the rates of multiple adverse events compared to the previously published sacituzumab govitecan-hziy single agent safety profile from the ASCENT trial, including myelosuppression (neutropenia, anemia, thrombocytopenia).

Second, trilaciclib has the potential to improve survival in combination with leading and emerging treatments, as a result of (1) myeloprotection, thus enabling increased cytotoxic exposure while protecting the immune system, and/or (2) immunomodulation, thus improving overall immune response. Its ability to enhance the cancer immune cycle occurs through multiple factors, including (1) enhancing T cell activation (via increased antigen presentation and secretion of IL-2 and IFN γ), (2) favorably altering the tumor microenvironment (via increased chemokines responsible for trafficking T cells to tumors and reducing the number and function of immunosuppressive cell populations), and (3) improving long-term immune surveillance (via increased generation of memory CD8 $^{+}$ T cells). We are exploring this potential survival benefit in a variety of ongoing Phase 2 and Phase 3 clinical trials. A meaningful anti-tumor efficacy benefit was observed in our Phase 2 mTNBC study in which trilaciclib led to a significant improvement in overall survival when administered in combination with chemotherapy (gemcitabine/carboplatin) compared to chemotherapy alone. These are the foundational data for our ongoing PRESERVE 2 pivotal Phase 3 trial in 1L mTNBC. An interim OS analysis at 70% of events is currently anticipated in the PRESERVE 2 pivotal Phase 3 trial in 1L mTNBC in the first half of 2024 to evaluate the effect of trilaciclib on overall survival in patients with TNBC when administered prior to treatment with GC. If the interim OS analysis achieves the threshold of statistical significance required for the interim assessment showing that trilaciclib has superior efficacy in overall survival, the trial will terminate, and the data will be reported. In addition, we will discuss the data with regulatory health authorities regarding filing for potential approval of this indication.

We are executing on our strategy to evaluate the potential benefits of trilaciclib to patients with other tumors to continuously develop new data with trilaciclib in a variety of chemotherapeutic settings and in combination with other agents to maximize the applicability of the drug to potential future treatment paradigms. We currently have four ongoing clinical trials: a pivotal Phase 3 trial in 1L mTNBC, a Phase 2 trial in combination with an antibody-drug conjugate (“ADC”) in 2L/3L mTNBC, a Phase 2 trial in neoadjuvant TNBC designed to validate trilaciclib’s immune-based mechanism of action (“MOA”), and a Phase 2 trial in 1L bladder cancer with chemotherapy induction and a checkpoint inhibitor maintenance. These studies across treatment settings and tumor types will evaluate trilaciclib’s benefits of proactive multi-lineage myeloprotection and survival in combination with leading and emerging treatments via myeloprotection and/or immunomodulation. In addition, the MOA and ADC Phase 2 trials will inform the design of future additional pivotal studies across multiple tumor types and treatment combinations. We are also conducting significant preclinical work to assess the additive/synergistic potential of trilaciclib with a variety of novel and emerging therapeutic agents to identify synergies to evaluate in future clinical trials. New non-clinical data presented in September 2022 showed consistent synergistic potential of trilaciclib to enhance the cancer immune cycle by enhancing T cell activation, favorably altering the tumor microenvironment, and improving long-term surveillance. Our overall development approach includes monitoring and anticipating the evolving future standards of care across tumor types in order to design or support studies that generate important data for trilaciclib across relevant future treatment settings and maximize future usage.

In November 2022, we provided encouraging initial safety and tolerability data from our ongoing Phase 2 trial of trilaciclib in combination with the ADC, sacituzumab govitecan-hziy. Initial data demonstrate the potential for an on-target effect of trilaciclib to reduce (>50%) the rates of adverse events associated with sacituzumab govitecan-hziy, including myelosuppression, diarrhea, and potentially alopecia, due to the presence of CDK4/6-expressing cells in the intestinal crypt and hair follicles, compared to the previously published sacituzumab govitecan-hziy single agent safety profile. We expect to release a more comprehensive data set including safety and initial efficacy results, including outcome by tumor PD-L1 status, at a medical meeting in the first half of 2023.

In December 2022, we reported data at the annual San Antonio Breast Cancer Symposium (SABCS) from the initial dose finding Phase 2 portion of the MOA trial, a multicenter, open-label, single-arm, neoadjuvant study where tumor tissue was obtained at baseline prior to study drug administration. Initial results from the first twenty-four patients show favorable alterations in the tumor microenvironment from a single dose of monotherapy (240 mg/m²) trilaciclib monotherapy as measured by increases in the proportions of CD8+ T cells compared to T regulatory cells (Tregs) in patients with early-stage TNBC. The improvement of the ratio of CD8+ T cells to Tregs may enhance the overall anti-tumor immune response and confirm the trends we observed in preclinical studies and in peripheral blood in our Phase 2 trial in TNBC. No trilaciclib related serious adverse events have been reported. We expect the pathologic complete response results, including outcome by tumor PD-L1 status, to be available in the second quarter of 2023, which we believe will clarify the ability of trilaciclib to improve anti-tumor efficacy for TNBC patients in this early-stage treatment setting, particularly in combination with a checkpoint inhibitor.

In January 2023, we provided an initial update on PRESERVE 3, the ongoing, randomized, open-label Phase 2 study of first-line platinum-based chemotherapy and maintenance therapy with the immune checkpoint inhibitor, avelumab, administered alone, or in combination with trilaciclib, in patients with untreated, locally advanced or metastatic urothelial carcinoma (“mUC”). The confirmed overall response rate (ORR) per RECIST v1.1 was comparable between arms and we believe that longer-term follow-up is required to characterize additional anti-tumor endpoints including median duration of confirmed objective response and PFS. Though early, the safety and tolerability profile of trilaciclib administered prior to chemotherapy is generally consistent with that expected in patients treated with gemcitabine plus cisplatin/carboplatin and avelumab maintenance for previously untreated advanced or mUC. Additional safety and efficacy data, including the primary endpoint of PFS, are anticipated in the midyear of 2023.

On February 13, 2023, we announced top line results from our pivotal Phase 3 PRESERVE 1 trial showing that the trial achieved its co-primary endpoints related to severe neutropenia with statistical significance, including clinically meaningful and statistically significant reductions in both occurrence of severe neutropenia during induction (placebo=20% vs. trilaciclib=1%; p<0.001) and mean duration of severe neutropenia in Cycles 1 through 4 (placebo=1.3 days vs. trilaciclib=0.1 days; p<0.001). Patients receiving trilaciclib experienced fewer chemotherapy dose reductions and delays. Other secondary measures of myeloprotection also favored trilaciclib, including reductions in Febrile Neutropenia (placebo=5% vs. trilaciclib=0%) and ESA administration (placebo=7% vs. trilaciclib=3%). These results further validate the myeloprotection benefit of trilaciclib. In addition, patients receiving trilaciclib had a clinically meaningful reduction in the rate of chemotherapy-induced diarrhea, including a 50% reduction in the rate of Grade 3/4 diarrhea and a 30% reduction in the rate of any grade diarrhea, compared to placebo. However, despite the achievement of the co-primary endpoints and other secondary measures of myeloprotection and tolerability, early anti-tumor efficacy data, including overall response rate (ORR), favor patients receiving placebo compared to trilaciclib (61% and 50% ORRs, respectively). Given the differential in these anti-tumor efficacy metrics and the low likelihood of achieving the progression-free survival (PFS) and overall survival (OS) endpoints, we have made the decision to discontinue PRESERVE 1.

Trilaciclib Development Pipeline

Candidate	Indication	Current Status	Initial Results	Additional Results	Endpoints	Development & Commercialization Rights (all indications)
trilaciclib	1L metastatic Triple negative breast cancer (mTNBC)	Registrational Phase 3 trial (enrollment completed in October 2022)	Interim OS analysis expected in 1H 2024		Primary: OS* Secondary: PRO, myeloprotection, PFS/ORR	G1 Therapeutics owns all global development and commercial rights across all indications, with the exception of Greater China (Simcere)
	Antibody-drug conjugate (ADC) combination trial in mTNBC	Phase 2 trial (enrolling)	Initial safety data announced in 4Q 2022	PFS results expected in 2Q 2023	Primary: PFS Secondary: ORR, OS, safety, myeloprotection, others	
	Mechanism of action trial in early stage neoadjuvant TNBC	Phase 2 trial (enrollment completed in August 2022)	MOA data presented in 4Q 2022	pCR results expected in 2Q 2023	Primary: Immune-based MOA Secondary: pCR, immune response, others	
	1L Bladder cancer (mUC)	Phase 2 trial (enrollment completed in August 2022)	ORR data announced in 1Q 2023	PFS results expected in mid-2023	Primary: PFS Secondary: ORR, OS, safety and efficacy, others	

PFS=progression-free survival; OS=overall survival; PRO=patient reported outcome; ORR=overall response rate; pCR=pathological complete response; MOA=mechanism of action.

*Initial results expected: (i) Phase 3 1L mTNBC trial: interim OS analysis; if the trial meets the interim analysis stopping rule, it will terminate and we will report the topline results. If it does not, the trial will continue to the final analysis.

Lerociclib

Lerociclib is a differentiated clinical-stage oral CDK4/6 inhibitor being developed for use in combination with other targeted therapies in multiple oncology indications. In 2020, we entered into separate, exclusive agreements with EQRx, Inc. (rights for U.S., Europe, Japan and all markets outside Asia-Pacific) and Genor Biopharma Co. Inc. (rights for Asia-Pacific, excluding Japan) for the development and commercialization of lerociclib in all indications. Combined, these agreements provide \$26.0 million in upfront payments, along with sales-based royalties, and the opportunity for up to \$330.0 million in potential milestone payments. EQRx, Inc. and Genor Biopharma Co. Inc. are responsible for all costs related to the development and commercialization of lerociclib in their respective territories.

Rintodestrant

Rintodestrant is an oral SERD for use as a monotherapy and in combination with CDK4/6 inhibitors, initially Ibrance® (palbociclib), for the treatment of ER+, HER2- breast cancer. After completing the evaluation of our rintodestrant partnering options and recent data in the highly competitive oral SERD space, we made the strategic decision to discontinue the program. We reverted the rights back to the originator (University of Illinois Chicago) during the third quarter of 2022; there are no additional financial obligations due to the originator resulting from the reversion.

CDK2 Inhibitor

In 2020, we entered into a global license agreement with Incyclix Bio, LLC (“Incyclix”), formerly ARC Therapeutics, LLC, for the development and commercialization of an internally discovered cyclin-dependent kinase 2 (“CDK2”) inhibitor for all human and veterinary uses. Incyclix is currently granted an exclusive, royalty-bearing, license with the right to grant sublicenses to one of our solely owned patent families.

Coronavirus (COVID-19) impact on operations

We have implemented business continuity plans to address the COVID-19 pandemic and minimize disruptions to ongoing operations. Enrollment of patients in current and future clinical trials may be impacted by COVID-19. Although we have not had any significant supply chain delays or shortages as a result of the COVID-19 pandemic to date, we have experienced delays in the delivery of our investigational product to certain investigative sites due to shortages of ancillary materials and the delay of governmental inspections. If the COVID-19 pandemic continues or increases in severity, we could experience disruptions to our clinical development timelines. If we experience delays in patient enrollment, we could incur increased clinical program expense if it is deemed necessary or advisable to improve patient recruitment by opening additional clinical sites. COVID-19 travel limitations and government-mandated work-from-home or shelter-in-place orders may reduce the number of in-person meetings with prescribers and fewer patient visits with physicians, potentially resulting in fewer new prescriptions.

We established a COVID-19 response team which continually monitors the impact of COVID-19 on our operations. The COVID-19 response team manages our workplace protocols that govern our employees' use of our office. To mitigate the impact of COVID-19 on our business, we put in place the following safety measures for our employees, patients, healthcare professionals, and suppliers to limit exposure: we substantially restricted travel, supplied personal protective equipment to employees, limited access to our headquarters and asked most of our staff to work remotely.

As of December 31, 2022, the majority of our employees are still working remotely, which may negatively impact our ability to conduct research and development activities, engage in sales-related initiatives, or efficiently conduct day-to-day operations. In addition, we added bandwidth and VPN capacity to our infrastructure to facilitate remote work arrangements. We will continue to monitor the impact of COVID-19 on our operations, including how it will impact our employees, clinical trials, development programs, supply chain, and other aspects of our operations, and report to our Board of Directors regularly on the progress of our response to the COVID-19 outbreak.

Financial Overview

Since our inception in 2008, we have devoted substantially all of our resources to synthesizing, acquiring, testing and developing our product candidates, including conducting preclinical studies and clinical trials and providing selling, general and administrative support for these operations as well as securing intellectual property protection for our products. Currently, COSELA is our only product approved for sale. We began generating revenue for the net product sales from COSELA in March of 2021. We recorded \$31.3 million of net product sales from COSELA and \$20.0 million of license revenue for the year ended December 31, 2022, \$11.1 million of net product sales from COSELA \$20.4 million of license revenue for the year ended December 31, 2021, and \$45.3 million of license revenue for the year ended December 31, 2020. To date, we have financed our operations primarily through the sale of equity securities, our loan agreement with Hercules Capital, Inc., and licensing arrangements. Under our licensing arrangements, we are eligible to receive certain development and sales-based milestones. Our ability to earn these milestones and the timing of achieving these milestones is primarily dependent upon the outcome of the licensee's activities and is uncertain at this time.

As of December 31, 2022, we had cash and cash equivalents of \$94.6 million and marketable securities of \$50.5 million. Since inception we have incurred net losses. Our net losses were \$147.6 million, \$148.4 million and \$99.3 million for the years ended December 31, 2022, 2021 and 2020, respectively. As of December 31, 2022, we had an accumulated deficit of \$732.0 million. Substantially all of our net losses have resulted from costs incurred in connection with our research and development programs, our commercial launch of COSELA, and from selling, general and administrative expenses associated with our operations. We expect to continue to incur significant expenses and increasing operating losses. As disclosed in the Liquidity and Capital Resources section, we have concluded that substantial doubt exists about our ability to continue as a going concern for a period of at least 12 months from the date of issuance of these financial statements. To date, inflation has not had a material impact on our business, but if the global inflationary trends continue, we expect appreciable increases in clinical trial, selling, labor, and other operating costs. If our costs were to become subject to significant inflationary pressures, we may not be able to fully offset such higher costs through price increases of our product. Our inability or failure to do so could adversely affect our business, financial condition and results of operations.

In addition, currently there is a conflict involving Russia and Ukraine, and this may impact our contract research organizations, clinical data management organizations, and clinical investigators' ability to conduct certain of our trials in Eastern European countries, and may prevent us from obtaining data on patients already enrolled at sites in these countries. This could negatively impact the completion of our clinical trials and/or analyses of clinical results, which may increase our product development costs and materially harm our business.

We also expect our research and development, commercial activities, and selling, general and administrative expenses will continue to increase in connection with our ongoing and future activities as we:

- continue development of trilaciclib, including initiation of additional clinical trials;
- identify and develop new product candidates;
- seek additional marketing approvals for trilaciclib upon successful completion of clinical trials;
- grow our sales, marketing and distribution infrastructure to commercialize COSELA and any future products for which we may obtain marketing approval;
- achieve market acceptance of our product in the medical community and with third-party payors;
- maintain, expand and protect our intellectual property portfolio;
- hire additional personnel;
- enter into collaboration arrangements, if any, for the development of our product or in-license other products and technologies;
- identify and develop new product candidates;
- add operational, financial and management information systems and personnel, including personnel to support our product development and planned future commercialization efforts; and
- continue to incur increased costs as a result of operating as a public company.

Components of our Results of Operations

Revenues

On February 12, 2021, COSELA was approved by the FDA and we began generating revenue for the product sales of COSELA in March 2021. Prior to the approval of COSELA, our revenues have been derived from our license agreements.

We entered into an exclusive license agreement with Simcere in August 2020 and granted them the rights to develop and commercialize trilaciclib in Greater China (mainland China, Hong Kong, Macau, and Taiwan) (the “Simcere Territory”). Under the license agreement, Simcere agreed to pay us a non-refundable, upfront cash payment of \$14.0 million, which we received (less applicable withholding taxes of \$1.4 million) in September 2020. We have the potential to receive an additional \$156.0 million upon reaching development and commercial milestones, and to receive tiered low double-digit royalties on annual net sales of trilaciclib in the Simcere Territory. The upfront payment of \$14.0 million was recognized as revenue in the fourth quarter of 2020, once the transfer of the related technology and know-how was completed. Through December 31, 2021, we recognized an additional \$8.0 million in revenue for the achievement of development and commercial milestones as defined by the license agreement. On July 13, 2022, the NMPA conditionally approved COSELA (trilaciclib hydrochloride for injection) for marketing in China. As a result of receiving approval in China, Simcere paid us a \$13.0 million milestone payment (less applicable withholding taxes of \$1.3 million) in the third quarter of 2022. Additionally, for the completion of manufacturing technology transfer in the third quarter of 2022, Simcere paid us a \$1.0 million (less applicable withholding taxes of \$0.1 million) milestone payment in October 2022. For the twelve months ended December 31, 2022, we recognized \$14.0 million of revenue related to development milestones.

We entered into an exclusive license agreement with EQRx, Inc. (“EQRx”) in July 2020 and granted them the rights to develop and commercialize lerociclib in the U.S, Europe, Japan and all other global markets, excluding the Asia-Pacific region (except Japan) (the “EQRx Territory”). We received an upfront payment of \$20.0 million in August 2020. This was recognized as revenue in September 2020 when we transferred the license and related technology and know-how. We have the potential to receive \$290.0 million upon reaching development and commercial milestones, and receive tiered royalties ranging from mid-single digits to mid-teens based on annual net sales of lerociclib in the EQRx Territory. We did not receive any development milestones during the twelve months ended December 31, 2022.

We entered into an exclusive license agreement with Genor Biopharma Co. Inc. (“Genor”) in June 2020 and granted them the rights to develop and commercialize lerociclib in the Asia-Pacific Region, excluding Japan (the “Genor Territory”). We received an upfront payment of \$6.0 million in July 2020. This was recognized as revenue in September 2020 when we transferred the license and related technology and know-how. We have the potential to receive \$40.0 million upon reaching development and commercial milestones, and receive tiered royalties ranging from high single to low double-digits based on annual net sales of lerociclib in the Genor Territory. Through December 31, 2021, we recognized an additional \$3.0 million in revenue for the achievement of development and commercial milestones as defined by the license agreement. We did not receive any development milestones during the twelve months ended December 31, 2022.

We entered into an exclusive license agreement with Incyclix, formerly ARC Therapeutics, LLC, a company primarily owned by a former board member, in May 2020. We granted Incyclix an exclusive, worldwide, royalty-bearing license of its CDK2 inhibitor compounds in exchange for an upfront payment and equity in Incyclix with a total value of approximately \$2.1 million, which resulted in the recognition of related party revenue. We are entitled to receive additional milestone payments and sales-based royalties, and has right of first negotiation to re-acquire these assets.

Operating expenses

We classify our operating expenses into three categories: cost of goods sold, research and development and selling, general and administrative expenses. Personnel costs, including salaries, benefits, bonuses, and stock-based compensation expense, comprise a significant component of each of these expense categories. We allocate expenses associated with personnel costs based on the nature of work associated with these resources. In addition, costs to sell and market COSELA are included within selling, general and administrative expense categories.

Cost of goods sold

Cost of goods sold includes direct and indirect costs related to the manufacturing and distribution of COSELA, including third-party manufacturing costs, packaging services, freight-in, third-party logistics costs associated with COSELA, and personnel costs. Cost of goods sold may also include period costs related to certain inventory manufacturing services and inventory adjustment charges.

Research and Development Expenses

The largest component of our total operating expenses since inception has been research and development activities, including the preclinical and clinical development of our product candidates.

Research and development costs are expensed as incurred. Our research and development expense primarily consists of:

- salaries and personnel-related costs, including bonuses, benefits and any stock-based compensation, for our scientific personnel performing or managing out-sourced research and development activities;
- costs incurred under agreements with contract research organizations and investigative sites that conduct preclinical studies and clinical trials;
- costs related to manufacturing pharmaceutical active ingredients and drug products for preclinical studies and clinical trials;
- costs related to upfront and milestone payments under in-licensing agreements;
- fees paid to consultants and other third parties who support our product development; and
- allocated facility-related costs and overhead.

The successful development of our products is highly uncertain. Products in later stages of clinical development generally have higher development costs than those in earlier stages of clinical development, primarily due to the increased size and duration of later-stage clinical trials. Accordingly, we expect research and development costs to increase as we conduct later stage clinical trials. However, we do not believe that it is possible at this time to accurately project total program-specific expenses. Our expenditures on current and future preclinical and clinical development programs are subject to numerous uncertainties in timing and cost to completion. The duration, costs and timing of clinical trials and development of our products will depend on a variety of factors, including:

- the scope, rate of progress, and expenses of our ongoing as well as any additional clinical trials and other research and development activities;

- future clinical trial results;
- achievement of milestones requiring payments under our in-licensing agreements;
- uncertainties in clinical trial enrollment rates or drop-out or discontinuation rates of patients;
- potential additional studies requested by regulatory agencies;
- significant and changing government regulation; and
- the timing and receipt of any regulatory approvals.

We track research and development expenses on a program-by-program basis only for clinical-stage product candidates. Preclinical research and development expenses and chemical manufacturing research and development expenses are not assigned or allocated to individual development programs.

Selling, general and administrative expenses

Selling, general and administrative expenses consist of personnel costs, allocated expenses and other expenses for outside professional services, including legal, audit and accounting services. Personnel costs consist of salaries, bonuses, benefits and stock-based compensation. Other selling, general and administrative expenses include facility-related costs not otherwise allocated to research and development expense, professional fees, commercialization costs, expenses associated with obtaining and maintaining patents and costs of our information systems. We anticipate that our selling, general and administrative expenses will continue to increase in the future as we increase our headcount to support our continued research and development and commercialization of COSELA.

Total other income (expense), net

Total other income (expense), net consists of interest income earned on cash and cash equivalents and interest expenses incurred under our loan and security agreement with Hercules.

Income taxes

To date, we have not been required to pay U.S. federal or state income taxes because we have not generated taxable income. Income tax expense recognized in 2022, 2021, and 2020 related to the foreign withholding taxes incurred as a result of the milestone payments received from the Simcere license agreement.

Critical accounting policies and significant judgments and estimates

This discussion and analysis of our financial condition and results of operations is based on our financial statements, which have been prepared in accordance with U.S. generally accepted accounting principles. The preparation of our financial statements requires us to make estimates and assumptions that affect the reported amounts of assets and liabilities and the disclosure of contingent assets and liabilities at the date of the financial statements, as well as the reported expenses incurred during the reporting periods. Our estimates are based on our historical experience and on various other factors that we believe are reasonable under the circumstances, the results of which form the basis for making judgments about the carrying value of assets and liabilities that are not readily apparent from other sources. Actual results may differ from these estimates under different assumptions or conditions.

While our significant accounting policies are more fully described in the notes to our financial statements appearing elsewhere in this Annual Report, we believe that the following accounting policies are critical to the process of making significant judgments and estimates in the preparation of our financial statements and understanding and evaluating our reported financial results.

Revenue Recognition

For elements of those arrangements that we determine should be accounted for under ASC 606, *Revenue from Contracts with Customers* (“ASC 606”), we assess which activities in our license or collaboration agreements are performance obligations that should be accounted for separately and determine the transaction price of the arrangement, which includes the assessment of the probability of achievement of future milestones and other potential consideration. For arrangements that include multiple performance obligations, such as granting a license or performing manufacturing or research and development activities, we allocate the transaction price based on the relative standalone selling price and recognize revenue that is allocated to the respective performance obligation when (or as) control is transferred to the customer and the performance obligation is satisfied. Accordingly, we develop assumptions that require judgment to determine the standalone selling price for each performance obligation identified in the contract. These key assumptions may include revenue forecasts, clinical development timelines and costs, discount rates and probabilities of clinical and regulatory success.

License Revenue

Licenses of Intellectual Property

If a license to our intellectual property is determined to be distinct from the other performance obligations identified in the arrangement, we recognize revenue allocated to the license when the license is transferred to the customer and the customer is able to use and benefit from the license. For licenses that are bundled with other promises, we utilize judgment to assess the nature of the combined performance obligation to determine whether the combined performance obligation is satisfied over time or at a point in time and, if over time, the appropriate method of measuring progress for purposes of recognizing revenue associated with the bundled performance obligation. We evaluate the measure of progress each reporting period and, if necessary, adjusts the measure of progress and related revenue recognition.

Milestone Payments

At the inception of each arrangement that includes developmental and regulatory milestone payments, we evaluate whether the achievement of each milestone specifically relates to our efforts to satisfy a performance obligation or transfer a distinct good or service within a performance obligation. We evaluate each milestone to determine when and how much of the milestone to include in the transaction price. We first estimate the amount of the milestone payment that we could receive using either the expected value or the most likely amount approach. We primarily use the most likely amount approach as that approach is generally most predictive for milestone payments with a binary outcome. Then, we consider whether any portion of that estimated amount is subject to the variable consideration constraint (that is, whether it is probable that a significant reversal of cumulative revenue would not occur upon resolution of the uncertainty). We update the estimate of variable consideration included in the transaction price at each reporting date which includes updating the assessment of the likely amount of consideration and the application of the constraint to reflect current facts and circumstances.

Royalties

For arrangements that include sales-based royalties, including milestone payments based on the level of sales, and the license is deemed to be the predominant item to which the royalties relate, we will recognize revenue at the later of (i) when the related sales occur, or (ii) when the performance obligation to which some or all of the royalty has been allocated has been satisfied (or partially satisfied). To date, we have not recognized any revenue related to sales-based royalties or milestone payments based on the level of sales.

Product Sales, Net

We sell COSELA to specialty distributors in the U.S. and, in accordance with ASC 606, recognizes revenue at the point in time when the customer is deemed to have obtained control of the product. The customer is deemed to have obtained control of the product at the time of physical receipt of the product at the customers’ distribution facilities, or Free on Board (“FOB”) destination, the terms of which are designated in the contract.

Product sales are recorded at the net selling price, which includes estimates of variable consideration for which reserves are established for (a) rebates and chargebacks, (b) co-pay assistance programs, (c) distribution fees, (d) product returns, and (e) other discounts. Where appropriate, these estimates take into consideration a range of possible outcomes which are probability-weighted for relevant factors such as current contractual and statutory requirements, and forecasted customer buying and payment patterns. Overall, these reserves reflect our best estimates of the amount of consideration to which it is entitled based on the terms of the applicable contract. The amount of variable consideration may be constrained and is included in the net sales price only to the extent that it is probable that a significant reversal in the amount of the cumulative revenue recognized will not occur in a future period. Actual amounts of consideration ultimately received may differ from our estimates. If actual results in the future vary from estimates, we adjust these estimates, which would affect net product revenue and earnings in the period such variances become known.

Liabilities related to co-pay assistance, rebates, and GPO fees are classified as “Accrued Expenses” in the Balance Sheets. Discounts such as chargebacks, returns, and specialty distributor fees are recorded as a reduction to trade accounts receivable, which is included in “Accounts Receivable” in the Balance Sheets.

Forms of Variable Consideration

Rebates and Chargebacks: We estimate reductions to product sales for Public Health Service Institutions, such as Medicaid, Medicare and Veterans Administration (“VA”) programs, as well as certain other qualifying federal and state government programs, and other group purchasing organizations. We estimate these reductions based upon our contracts with government agencies and other organizations, statutorily defined discounts and estimated payor mix. These organizations purchase directly from our specialty distributors at a discount and the specialty distributors charge us back the difference between the wholesaler price and the discounted price. Our liability for Medicaid rebates consists of estimates for claims that a state will make. We reserve for this discounted pricing is based on expected sales to qualified healthcare providers and the chargebacks that customers have already claimed.

Co-pay assistance: Eligible patients who have commercial insurance may receive assistance from us to reduce the patient’s out of pocket costs. Liabilities for co-pay assistance are calculated by actual program participation from third-party administrators.

Distribution Fees: We have written contracts with its customers that include terms for distribution fees and costs for inventory management. We estimate and record distribution fees due to its customers based on gross sales.

Product Returns: We generally offers a right of return based on the product’s expiration date and certain spoilage and damaged instances. We estimate the amount of product sales that may be returned and record the estimate as a reduction of product sales in the period the related product sales are recognized. Our estimates for expected returns are based primarily on an ongoing analysis of sales information and visibility into the inventory remaining in the distribution channel.

Cost of Goods Sold

Cost of goods sold includes direct and indirect costs related to the manufacturing and distribution of COSELA, including third-party manufacturing costs, packaging services, freight-in, third-party logistics costs associated with COSELA, and our personnel costs. Cost of goods sold may also include period costs related to certain inventory manufacturing services and inventory adjustment charges. In connection with the FDA approval of COSELA on February 12, 2021, we subsequently began capitalizing inventory manufactured or purchased after this date. As a result, certain manufacturing costs associated with product shipments of COSELA were expensed prior to FDA approval and, therefore, are not included in cost of goods sold during the current period.

Accrued research and development expenses

As part of the process of preparing our financial statements, we estimate and accrue research and development expenses, including external clinical study costs associated with clinical trial activities. The process involves reviewing contracts and purchase orders, identifying services that have been provided on our behalf, and estimating the level of service performed and the associated cost incurred for the service when we have not yet been invoiced or otherwise notified of the actual costs.

Costs for clinical trial activities are recognized based on an evaluation of our vendors' progress towards completion of specific tasks, using data such as patient enrollment, clinical site activations or information provided to us by our vendors regarding their actual costs incurred. Payments for these activities are based on the terms of individual contracts and payment timing may differ significantly from the period in which the services were performed. We determine accrual estimates through reports from and discussions with applicable personnel and outside service providers as to the progress or state of completion of trials, or the services completed. Our estimates of accrued external clinical study costs as of each balance sheet date are based on the facts and circumstances known at the time.

Although we do not expect our estimates to be materially different from the amounts actually incurred, if our estimates of the status and timing of the services performed differ from the actual status and timing of services performed, we may report amounts that are too high or too low in any particular period. To date, there have been no material differences from our estimates to the amount actually incurred.

Debt

The Company classifies its loan payable in current or long-term liabilities based on the timing of scheduled principal payments. The loan and security agreement (the "Loan Agreement") with Hercules Capital contains events of default, including a material adverse change, which is subjectively defined, in the Company's business, payment defaults, and breaches of covenants following any applicable cure period. In the event of default by the Company under the Loan Agreement, the Company may be required to repay all amounts then outstanding under the Loan Agreement. The Company has determined that subjective acceleration under the material adverse events clause included in the Loan Agreement is not probable and, therefore, has classified the outstanding principal amount in long-term liabilities based on the timing of scheduled principal payments.

Stock-based compensation

We account for stock-based compensation awards in accordance with Financial Accounting Standards Board (FASB) Accounting Standards Codification (ASC) Topic 718, *Compensation—Stock Compensation*, or ASC 718. ASC 718 requires all stock-based payments to employees, including grants of employee stock options, to be recognized in the statement of operations based on their fair values. Our stock-based compensation awards have historically consisted of stock options.

We recognize compensation costs related to stock options granted to employees based on the estimated fair value of the awards on the date of grant. We estimate the grant date fair value, and the resulting stock-based compensation expense, using the Black-Scholes option-pricing model. The grant date fair value of the stock-based awards is generally recognized on a straight-line basis over the requisite service period, which is generally the vesting period of the respective awards. We account for forfeitures as they occur, rather than estimating forfeitures as of the date of grant.

We recorded non-cash stock-based compensation expense of \$20.6 million, \$22.3 million and \$18.8 million for the years ended December 31, 2022, 2021 and 2020, respectively.

We calculate the fair value of stock options using the Black-Scholes option-pricing model. The Black-Scholes option-pricing model requires the use of subjective assumptions, including the expected volatility of our common stock, the assumed dividend yield, the expected term of our stock options, the risk-free interest rate for a period that approximates the expected term of our stock options, and the fair value of the underlying common stock on the date of grant. In applying these assumptions, we considered the following factors:

- we do not have sufficient history to estimate the volatility of our common stock; we calculate expected volatility based on reported data for selected similar publicly traded companies for which the historical information is available as we do not have sufficient history to estimate volatility using only our common stock; in 2019, we began incorporating our historical stock price in conjunction with selected similar publicly traded companies; we plan to continue to use the guideline peer group volatility information until the historical volatility of our common stock is sufficient to measure expected volatility for future option grants;
- the assumed dividend yield of zero is based on our expectation of not paying dividends for the foreseeable future;

- our estimates of expected term used in the Black-Scholes option-pricing model were based on the estimated time from the grant date to the date of exercise;
- we determine the risk-free interest rate by reference to implied yields available from U.S. Treasury securities with a remaining term equal to the expected life assumed at the date of grant; and
- we account for forfeitures as they occur, rather than estimating forfeitures as of an award's grant date.

See "Note 10 – Stock-Based Compensation" to the accompanying audited financial statements included in Item 15 of this Annual Report for the weighted average assumptions used in the Black-Scholes option-pricing model for awards granted in the years ended December 31, 2022, 2021 and 2020.

Prior to our initial public offering, the fair value of our common shares underlying our stock options was estimated on each grant date by our board of directors. In order to determine the fair value of our common shares underlying granted stock options, our board of directors considered, among other things, timely valuations of our common shares prepared by an unrelated third-party valuation firm in accordance with the guidance provided by the American Institute of Certified Public Accountants Practice Guide, Valuation of Privately-Held-Company Equity Securities Issued as Compensation.

Given the absence of a public trading market for our common shares, our board of directors exercised reasonable judgment and considered a number of objective and subjective factors to determine the best estimate of the fair value of our common shares, including (1) our business, financial condition and results of operations, including related industry trends affecting our operations; (2) our forecasted operating performance and projected future cash flows; (3) the illiquid nature of our common shares; (4) liquidation preferences and other rights and privileges of our common shares; (5) market multiples of our most comparable public peers and (6) market conditions affecting our industry. Since our IPO, our board of directors has determined the fair value of each common share underlying share-based awards based on the closing price of our common shares as reported by the Nasdaq on the date of grant.

Income taxes

We recognize deferred income taxes for temporary differences between the basis of assets and liabilities for financial statement and income tax purposes. We periodically evaluate the positive and negative evidence bearing upon the ability to realize our deferred tax assets. Based upon the weight of the available evidence, which includes historical operating performance, reported cumulative net losses since inception and difficulty in accurately forecasting our future results, we maintained a full valuation allowance on the net deferred tax assets for all periods presented. We intend to maintain a full valuation allowance on the U.S. deferred tax assets for the foreseeable future until sufficient positive evidence exists to support reversal of the valuation allowance.

At December 31, 2022, we have federal net operating loss carryforwards ("NOLs") of approximately \$545.1 million, which are available to offset future taxable income. Of the \$545.1 million available, \$95.4 million will begin to expire in 2029. The remaining \$449.7 million has an indefinite carryforward period. Under the Tax Cuts and Jobs Act ("Tax Act"), federal NOLs arising after December 31, 2017 may be carried forward indefinitely. However, for NOLs arising after December 31, 2017, NOL carryforwards will be limited to 80% of taxable income. Our NOLs generated in 2017 and in prior years will not be subject to the 80% limitation under the Tax Act. In addition, we had state net operating loss carryforwards totaling approximately \$369.4 million, which are available to offset future state taxable income. The state net operating loss carryforwards are inclusive of North Carolina net operating losses, which are recorded at zero benefit, as discussed in the income tax footnote. State net operating losses begin to expire in 2024. Because we had incurred cumulative net operating losses since inception, all tax years remain open to examination by U.S. federal and state income tax authorities. As of December 31, 2022, we also had federal research and development (R&D) credit carryforwards of approximately \$20.5 million available to offset future income tax which begin to expire in 2035.

Our ability to utilize net operating losses and research and development credit carryforwards may be substantially limited due to ownership changes that may have occurred or that could occur in the future, as required by Section 382 of the Internal Revenue Code of 1986, as amended (the Code), as well as similar state provisions. These ownership changes may limit the amount of NOL and R&D credit carryforwards that can be utilized annually to offset future taxable income and tax, respectively. In general, an "ownership change," as defined by Section 382 of the Code, results from a transaction or series of transactions over a three-year period resulting in an ownership change of more than 50 percent of the outstanding stock of a company by certain stockholders or public groups.

In April 2019, we completed an evaluation study as to whether an “ownership change” had occurred and determined that the limitation would be approximately \$8.0 million on federal net operating loss carryforwards, \$1.2 million on state net operating loss carryforwards, and \$0.1 million on R&D tax credit carryforwards. The carryforward amounts reported above have already been reduced for these limitations. We continue to maintain a valuation allowance on the remaining NOLs and tax credits as we believe that it is more likely than not that all of the deferred tax asset associated with them will not be realized regardless of whether an “ownership change” has occurred.

Results of operations

Comparison of the year ended December 31, 2022 and December 31, 2021

	Year Ended December 31,		Change
	2022	2021	\$
(in thousands)			
Revenues			
Product sales, net	\$ 31,337	\$ 11,120	\$ 20,217
License revenue	19,964	20,356	(392)
Total revenues	51,301	31,476	19,825
Operating expenses			
Cost of goods sold	3,748	2,016	1,732
Research and development	83,316	76,225	7,091
Selling, general and administrative	100,415	95,692	4,723
Total operating expenses	187,479	173,933	13,546
Loss from operations	(136,178)	(142,457)	6,279
Other income (expense)			
Interest income	748	43	705
Interest expense	(10,432)	(4,667)	(5,765)
Other income (expense)	3	(346)	349
Total other income (expense), net	(9,681)	(4,970)	(4,711)
Loss before income taxes	(145,859)	(147,427)	1,568
Income tax expense	1,700	925	775
Net loss	\$ (147,559)	\$ (148,352)	\$ 793

Product sales, net

Product sales, net was \$31.3 million and \$11.1 million for the years ended December 31, 2022 and December 31, 2021, respectively. The increase of \$20.2 million, or 182%, was primarily due to increased sales volume as we continued our commercialization efforts. We received FDA approval of COSELA on February 12, 2021 and the product has been commercially available since March 2, 2021.

License revenue

License revenue was \$20.0 million and \$20.4 million for the years ended December 31, 2022 and December 31, 2021, respectively. License revenue decreased \$0.4 million, or 2%. License revenue recognized in the current year was primarily related to \$14.0 million in milestone payments from Simcere. We also recognized \$2.4 million and \$2.3 million in clinical trial costs reimbursed by EQRx and Simcere, respectively. Additionally, we recognized \$1.3 million in supply, manufacturing services and patent reimbursable costs from EQRx, Genor, and Simcere. License revenue recognized in the prior year was primarily related to \$11.0 million in milestone payments from Genor and Simcere. We also recognized \$2.5 million and \$1.0 million in clinical trial costs reimbursed by EQRx and Simcere, respectively. Additionally, we recognized \$5.9 million in supply, manufacturing services and patent reimbursable costs from EQRx, Genor, and Simcere.

Cost of goods sold

Cost of goods sold was \$3.7 million and \$2.0 million for the years ended December 31, 2022 and December 31, 2021, respectively. The increase of \$1.7 million, or 85%, was primarily due to an increase in units sold and an increase in overhead.

Research and development

Research and development expenses were \$83.3 million for the year ended December 31, 2022 as compared to \$76.2 million for the year ended December 31, 2021. The increase of \$7.1 million, or 9%, was primarily due to an increase of \$10.8 million in our clinical program costs, offset by a decrease of \$3.2 million for manufacturing of active pharmaceutical ingredient and drug product to support our clinical trials and a decrease of \$0.5 million in external costs related to discovery and preclinical development. The following table summarizes our research and development expenses allocated to trilaciclib, rintodestrant, lerociclib, and unallocated research and development expenses for the periods indicated:

	Year Ended December 31,	
	2022	2021
	(in thousands)	
Clinical Program Expenses—trilaciclib	\$ 73,498	\$ 60,911
Clinical Program Expenses—rintodestrant	2,110	3,132
Clinical Program Expenses—lerociclib	2,553	3,330
Chemical Manufacturing and Development	2,707	5,883
Discovery, Pre-Clinical and Other Expenses	2,448	2,969
Total Research and Development Expenses	<u>\$ 83,316</u>	<u>\$ 76,225</u>

Selling, general and administrative

Selling, general and administrative expenses were \$100.4 million for the year ended December 31, 2022 as compared to \$95.7 million for the year ended December 31, 2021. The increase of \$4.7 million, or 5%, was due to an increase of \$12.5 million in personnel related costs due to increased headcount, and an increase of \$2.6 million in office and other administrative expenses, of which \$1.7 million related to travel expenses. These increases were offset by a decrease of \$7.3 million in commercialization activities, a decrease of \$1.7 million in information technology systems and related expenses, and a decrease of \$1.4 million in medical affairs costs related to trilaciclib, professional services, and taxes.

Total other income (expense), net

Total other income (expense), net was \$(9.7) million for the year ended December 31, 2022 as compared to \$(5.0) million for the year ended December 31, 2021. The change of \$4.7 million, or 94%, was primarily driven and increase in interest expense on loan payable due to higher principal balance in 2022 as compared to 2021.

Income tax expense

Income tax expense was \$1.7 million for the year ended December 31, 2022 as compared to \$0.9 million for the year ended December 31, 2021. The increase of \$0.8 million, or 89%, in foreign tax withholdings incurred is a result of an increase in license revenue recognized from Simcere as compared to the prior year.

Comparison of the year ended December 31, 2021 and December 31, 2020

	Year Ended December 31,		Change
	2021	2020	\$
(in thousands)			
Revenues:			
Product sales, net	\$ 11,120	\$ —	\$ 11,120
License revenue	20,356	45,285	(24,929)
Total revenues	31,476	45,285	(13,809)
Operating Expenses:			
Cost of goods sold	2,016	—	2,016
Research and Development	76,225	73,271	2,954
Selling, general and administrative	95,692	68,490	27,202
Total operating expenses	173,933	141,761	32,172
Loss from Operations	(142,457)	(96,476)	(45,981)
Other income (expense):			
Interest income	43	952	(909)
Interest expense	(4,667)	(1,778)	(2,889)
Other income (expense)	(346)	(542)	196
Total other income (expense), net	(4,970)	(1,368)	(3,602)
Loss before income taxes	(147,427)	(97,844)	(49,583)
Income tax expense	925	1,410	(485)
Net Loss	\$ (148,352)	\$ (99,254)	\$ (49,098)

Product sales, net

Product sales, net was \$11.1 million and \$0 for the years ended December 31, 2021 and December 31, 2020, respectively. The sales revenue recognized in the year ended December 31, 2021, was related to the product sales of COSELA. We received FDA approval of COSELA on February 12, 2021 and the product has been commercially available since March 2, 2021.

License revenue

License revenue was \$20.4 million and \$45.3 million for the years ended December 31, 2021 and December 31, 2020, respectively. License revenue decreased \$24.9 million, or 55%. License revenue recognized in the year ended December 31, 2021, was primarily related to \$11.0 million in milestone payments from Genor and Simcere. We also recognized \$2.5 million and \$1.0 million in clinical trial costs reimbursed by EQRx and Simcere, respectively. Additionally, we recognized \$5.9 million in supply, manufacturing services and patent reimbursable costs from EQRx, Genor, and Simcere. License revenue recognized in the year ended December 31, 2020, was primarily related to \$42.1 million in revenue recognized from the Simcere, EQRx, Genor and ARC upfront payments under the respective license agreements following the transfer of related technology and know-how which occurred during the period. We also recognized \$1.3 million for clinical trial costs reimbursed by EQRx and \$0.4 million in patent costs to be reimbursed by EQRx, Genor, and Simcere. Additionally, we recognized \$1.3 million in revenue for existing inventory transfers to EQRx and Genor which occurred during the fourth quarter of 2020.

Cost of goods sold

Cost of goods sold was \$2.0 million and \$0 for the years ended December 31, 2021 and December 31, 2020, respectively. Cost of goods sold includes our third-party logistics costs for the sales of COSELA, inventory overhead costs, and personnel costs.

Research and development

Research and development expenses were \$76.2 million for the year ended December 31, 2021 as compared to \$73.3 million for the year ended December 31, 2020. The increase of \$2.9 million, or 4%, was primarily due to an increase of \$20.0 million in our clinical program costs, offset by a decrease of \$16.2 million for manufacturing of active pharmaceutical ingredient and drug product to support our clinical trials and a decrease of \$0.9 million in external costs related to discovery and preclinical development. The following table summarizes our research and development expenses allocated to trilaciclib, rintodestrant, lerociclib, and unallocated research and development expenses for the periods indicated:

	Year Ended December 31,	
	2021	2020
	(in thousands)	
Clinical expenses—trilaciclib	\$ 60,911	\$ 34,292
Clinical expenses—rintodestrant	3,132	7,005
Clinical expenses—lerociclib	3,330	6,092
Chemical manufacturing and development	5,883	22,040
Discovery and pre-clinical expenses	2,969	3,842
Total research and development expenses	<u>\$ 76,225</u>	<u>\$ 73,271</u>

Selling, general and administrative

Selling, general and administrative expenses were \$95.7 million for the year ended December 31, 2021 as compared to \$68.5 million for the year ended December 31, 2020. The increase of \$27.2 million, or 40%, was due to an increase of \$12.7 million in personnel related costs due to increased headcount, of which \$5.4 million related to non-cash stock compensation expense, an increase of \$12.1 million in commercialization activities, an increase of \$2.2 million in information technology systems and related expenses, and an increase of \$0.2 million medical affairs costs related to trilaciclib, professional services, insurance, and other administrative costs.

Total other income (expense), net

Total other income (expense), net was \$(5.0) million for the year ended December 31, 2021 as compared to \$(1.4) million for the year ended December 31, 2020. The change of \$3.6 million, or 263%, was primarily driven and increase in interest expense on loan payable due to higher principal balance in 2021 as compared to 2020.

Income tax expense

Income tax expense was \$0.9 million for the year ended December 31, 2021 as compared to \$1.4 million for the year ended December 31, 2020. The decrease of \$0.5 million, or 34%, in foreign tax withholdings incurred is a result of a decrease in license revenue recognized from Simcere as compared to the prior.

Liquidity and Capital Resources

We have experienced net losses since our inception, and have an accumulated deficit of \$732.0 million and \$584.5 million as of December 31, 2022 and December 31, 2021, respectively. We expect to incur losses and have negative net cash flows from operating activities as we execute on our strategy including engaging in further research and development activities, particularly conducting non-clinical studies and clinical trials. Our success depends on the ability to successfully commercialize our technologies to support our operations and strategic plan. As of the date of issuance of these financial statements, we expect that our cash and cash equivalents and marketable securities as of December 31, 2022 will not be sufficient to fund our planned operations and remain in compliance with our objective financial covenants for at least the next 12 months from the date of issuance of these financial statements. Based on the foregoing, we have concluded that substantial doubt exists about our ability to continue as a going concern for a period of at least 12 months from the date of issuance of these financial statements. Until such time, if ever, as we can generate substantial revenues, we expect to finance our cash needs through a combination of equity offerings, debt financings, other third-party funding, marketing and distribution arrangements and other collaborations, strategic alliances and licensing arrangements. There can be no assurances that we will be able to secure such additional financing if at all, or on terms that are satisfactory to us, and that it will be sufficient to meet our needs. In the event we are not successful in obtaining sufficient funding, this could force us to delay, limit, or reduce our product development, commercialization efforts or other operations and could result in the default of our loan payable. Our financial statements have been prepared assuming that we will continue as a going concern, which contemplates the realization of assets and the settlement of liabilities and commitments in the normal course of business. The financial statements do not include any adjustments relating to the recoverability and classification of recorded asset amounts or the amounts and classification of liabilities that might result from the outcome of the uncertainties described above. In connection with the Loan Payable described in Note 8, we are required to remain in compliance with a minimum cash covenant and a minimum monthly net product revenue covenant (determined in accordance with U.S. GAAP), measured on a trailing six-month basis. The lender also has the ability to call debt based on a material adverse change clause, which is subjectively defined. If we are not in compliance with the monthly net revenue covenant, the minimum cash covenant, or the subjective acceleration clauses are triggered under the agreement, then the lender may call the debt resulting in us immediately needing additional funds. As of December 31, 2022, we were in compliance with all covenants.

To date, we have funded our operations primarily through proceeds from our initial public offering, our follow-on stock offerings, our debt agreement with Hercules Capital, Inc. (“Hercules”), and proceeds from our license agreements. Under our licensing arrangements, we are eligible to receive certain development and sales-based milestones. Our ability to earn these milestones and the timing of achieving these milestones is primarily dependent upon the outcome of the licensee’s activities and are uncertain at this time.

Shelf registration statement

On July 2, 2021, we filed an automatically effective shelf registration statement (the “2021 Form S-3”) with the Securities and Exchange Commission (the “SEC”). Each issuance under the shelf registration statement would have required the filing of a prospectus supplement identifying the amount and terms of securities to be issued. The 2021 Form S-3 did not limit the amount of securities that could have been issued thereunder.

Since we no longer qualified as a “well-known seasoned issuer” as such term is defined in Rule 405 under the Securities Act of 1933, as amended, at the time of the filing of our 2021 Form 10-K in February 2022, we filed an automatic post-effective amendment to the 2021 Form S-3 on Form POSASR prior to the filing of our 2021 Form 10-K, which became effective upon filing, to register for sale up to \$300.0 million of any combination of our common stock, preferred stock, debt securities, warrants, rights and/or units from time to time and at prices and on terms that we may determine and, as required by SEC rules, and another post-effective amendment to the 2021 Form S-3 on Form POS AM after the filing of our 2021 Form 10-K. The post-effective amendment to the 2021 Form S-3 on Form POS AM was declared effective by the SEC on May 3, 2022 and the 2021 Form S-3 will remain in effect for up to three years from the date it originally became effective, which was July 2, 2021.

At-the-market offerings

On June 15, 2018, we entered into a sales agreement for “at the market offerings” with Cowen and Company, LLC (“Cowen”), which allows us to issue and sell shares of common stock pursuant to a shelf registration statement for total gross sales proceeds of up to \$125.0 million from time to time through Cowen, acting as our agent (the “2018 Sales Agreement”). Between June 18, 2018 and August 2, 2018, we sold 752,008 shares of common stock pursuant to the 2018 Sales Agreement resulting in \$36.1 million in net proceeds, realizing \$12.1 million in the second quarter and the remaining \$24.0 million by August 2, 2018.

Between January 14, 2021 and February 9, 2021, we sold 3,513,027 shares of common stock pursuant to the 2018 Sales Agreement resulting in \$86.4 million in net proceeds. As of February 9, 2021, we used the entirety of the remaining availability under the 2018 Sales Agreement with Cowen.

In connection with the 2021 Form S-3, on July 2, 2021, we entered into a sales agreement for “at the market offerings” with Cowen, which allowed us to issue and sell shares of common stock pursuant to the 2021 Form S-3 for total gross sales proceeds of up to \$150.0 million from time to time through Cowen, acting as our agent (the “2021 Sales Agreement”). We did not sell any shares of common stock or other securities under the 2021 Sales Agreement and we terminated the 2021 Sales Agreement on February 23, 2022. Also, on February 23, 2022, we entered into a sales agreement for “at the market offerings” with Cowen, acting as our agent (the “2022 Sales Agreement”), which allows us to issue and sell shares of common stock pursuant to the 2021 Form S-3 for total gross sales proceeds of up to \$100.0 million from time to time through Cowen.

As of the date hereof, we have not sold any shares of common stock or other securities under the 2022 Sales Agreement.

Equity Offering

On November 17, 2022, we entered into an underwriting agreement related to a public offering of 7,700,000 shares of our common stock at a public offering price of \$6.50 per share less the underwriting discounts and commissions, pursuant to the shelf registration statement on Form S-3. We received approximately \$50.1 million in gross proceeds from this offering, before deducting underwriting discounts and commissions and offering expenses. The offering closed on November 22, 2022. In addition, 873,353 shares of common stock were issued upon exercise by the underwriters at their option to purchase additional shares at the same offering price, which closed on December 20, 2022. The gross proceeds from the offering of the aggregate of 8,573,353 shares of our common stock were \$55.7 million and net proceeds of \$52.0 million, after deducting underwriting discounts and commissions and other offering expenses payable by us.

Loan and Security Agreement

On May 29, 2020, we entered into a loan and security agreement with Hercules under which they agreed to lend us up to \$100.0 million, to be made available in a series of tranches, subject to specified conditions. We borrowed \$20.0 million at loan closing. The term of the loan is approximately 48 months, with a maturity date of June 1, 2024. No principal payments are due during an interest-only period, commencing on the initial borrowing date and continuing through June 1, 2022. The interest only period may be extended through January 1, 2023 upon satisfaction of certain milestones. Following the interest only period, we will repay the principal balance and interest of the advances in equal monthly installments through June 1, 2024.

On March 31, 2021, we entered into a First Amendment to Loan and Security Agreement (the “First Amendment”) with Hercules whereby we drew the remaining \$10.0 million of the first tranche and the interest rate and financial covenants were amended. Unless loan advances exceeded \$40.0 million, no financial covenants were required.

On November 1, 2021, we entered into a Second Amendment to the Loan and Security Agreement (the “Second Amendment”) with Hercules under which Hercules has agreed to lend us up to \$150.0 million, to be made available in a series of tranches, subject to certain terms and conditions. The first tranche was increased to \$100.0 million. At close of the Second Amendment, we borrowed an additional \$45.0 million from the first tranche. We had the right to request that Hercules make the remaining \$25.0 million term loan advances under the first tranche to us by September 15, 2022, which we did not exercise. No principal payments are due during an interest-only period, commencing on the close of the Second Amendment and continuing through December 1, 2024. The interest only period may be extended through December 1, 2025, in quarterly increments, subject to compliance with covenants of the Second Amendment. Following the interest only period, we will repay the principal balance and interest of the advances in equal monthly installments through the maturity date of November 1, 2026.

On June 24, 2022, we entered into a Third Amendment to Loan and Security Agreement (the “Third Amendment”) with Hercules which extended the time for drawing the remainder of the first tranche advance of up to \$25.0 million from September 15, 2022 to December 31, 2022. The Third Amendment also added a minimum cash covenant whereby we must maintain unrestricted cash equal to at least 50% of the outstanding debt, and such percentage shall decrease upon us achieving specified net product revenue of COSELA. It further provides for a minimum revenue covenant that, beginning August 15, 2022, with the reporting of the financial results for the second fiscal quarter ended June 30, 2022, and tested monthly, we must have achieved net product revenue of COSELA of at least 80% of the amounts projected in our forecast. Testing of the minimum revenue covenant shall be waived at any time in which either (a) our market capitalization exceeds \$750.0 million and we maintain unrestricted cash equal to at least 50% of the total amounts funded, or (b) we maintain unrestricted cash equal to at least 100% of the total amounts funded.

On November 1, 2022, we entered into a Fourth Amendment to Loan and Security Agreement (the “Fourth Amendment”) with Hercules. The Fourth Amendment extended the time for drawing the Tranche 1D Advance (as defined in the Loan and Security Agreement) of up to \$25.0 million from December 31, 2022 to June 30, 2023. The Fourth Amendment continues to provide for a minimum revenue covenant, tested monthly, where we must achieve net product revenue of COSELA of at least 80% of the amounts projected in our forecast. The Fourth Amendment also amended the minimum cash covenant such that if the outstanding debt is less than or equal to \$75.0 million, we must maintain unrestricted cash equal to at least 65% of the outstanding debt in addition to meeting the required revenue covenant. In addition, if the outstanding debt is greater than \$75.0 million, we must maintain unrestricted cash equal to at least 70% of the outstanding debt while meeting the revenue covenant. If we achieve specified net revenue of COSELA, the cash percentage decreases to 45% of the outstanding debt. Testing of the minimum revenue covenant shall be waived at any time in which either (a) our market capitalization exceeds \$750.0 million and we maintain unrestricted cash equal to at least 50% of the total amounts funded, or (b) we maintain unrestricted cash equal to at least 100% of the total amounts funded. The Fourth Amendment also re-set the prepayment premiums associated with any prepayment of the loans under the Loan and Security Agreement.

Hercules also has the ability to call debt based on a material adverse change clause, which is subjectively defined. If we are not in compliance with the monthly net revenue covenants, minimum cash covenant or the subjective acceleration clauses are triggered under the agreement, then Hercules may call the debt resulting in us immediately needing additional funds. We have determined that subjective acceleration under the material adverse events clause included in the Loan Agreement is not probable and, therefore, have classified the outstanding principal amount in long-term liabilities based on the timing of scheduled principal payments. As of December 31, 2022 and as of the date of the issuance of these financial statements, we were in compliance with all covenants and have not been notified of an event of default by the lender under the Loan Agreement.

Genor License Agreement

On June 15, 2020, we entered into an exclusive license agreement with Genor for the development and commercialization of lerociclib in the Genor Territory. Under the license agreement, we granted to Genor an exclusive, royalty-bearing, non-transferable license, with the right to grant sublicenses, to develop, obtain, hold and maintain regulatory approvals for, and commercialize lerociclib, in the Genor Territory.

Under the license agreement, Genor agreed to pay us a non-refundable, upfront cash payment of \$6.0 million with the potential to pay an additional \$40.0 million upon reaching certain development and commercial milestones. In addition, Genor will pay us tiered royalties ranging from high single to low double-digits based on annual net sales of lerociclib in the Genor Territory. The upfront cash payment was received in July 2020. In September 2020, we transferred to Genor the related technology and know-how that is necessary to develop, seek regulatory approval for, and commercialize lerociclib in the Genor Territory. Genor will be responsible for the development of the product in the Genor Territory and will be responsible, at its sole cost, for obtaining supply of lerociclib to meet its development, regulatory approval, and commercialization obligations under the agreement. We did not recognize any revenue related to development milestones during the year ended December 31, 2022.

EQRx License Agreement

On July 22, 2020, we entered into an exclusive license agreement with EQRx for the development and commercialization of lerociclib in the EQRx Territory. Under the license agreement, we granted to EQRx an exclusive, royalty-bearing, non-transferable license, with the right to grant sublicenses, to develop, obtain, hold and maintain regulatory approvals for, and commercialize lerociclib in the EQRx Territory.

Under the license agreement, EQRx agreed to pay us a non-refundable, upfront cash payment of \$20.0 million with the potential to pay an additional \$290.0 million upon reaching certain development and commercial milestones. In addition, EQRx will pay us tiered royalties ranging from mid-single digits to mid-teens based on annual net sales of lerociclib in the EQRx Territory. The upfront cash payment was received in August 2020. In September 2020, we transferred to EQRx the related technology and know-how that is necessary to develop, seek regulatory approval for, and commercialize lerociclib in the EQRx Territory. EQRx will be responsible for the development of the product in the EQRx Territory. We will continue until completion, as the clinical trial sponsor, its two primary clinical trials at EQRx's sole cost and expense. EQRx agreed to reimburse us for all of its out-of-pocket costs incurred after the effective date of the license agreement in connection with these clinical trials. We will invoice EQRx within 30 days following the end of each quarter, and EQRx will pay within 30 days after its receipt of such invoice. We did not recognize any revenue related to development milestones during the year ended December 31, 2022.

Simcere License Agreement

On August 3, 2020, we entered into an exclusive license agreement with Simcere for the development and commercialization of trilaciclib in all indications in the Simcere Territory. Under the license agreement, we granted to Simcere an exclusive, royalty-bearing, non-transferable license, with the right to grant sublicenses, to develop, obtain, hold and maintain regulatory approvals for, and commercialize trilaciclib in the Simcere Territory.

Under the license agreement, Simcere agreed to pay us a non-refundable, upfront cash payment of \$14.0 million with the potential to pay an additional \$156.0 million upon reaching certain development and commercial milestones. In addition, Simcere will pay us tiered low double-digit royalties on annual net sales of trilaciclib in the Simcere Territory. The upfront payment of \$14.0 million (less applicable withholding taxes of \$1.4 million) was received in September 2020. In return, we furnished to Simcere the related technology and know-how that is necessary to develop, seek regulatory approval for, and commercialize trilaciclib in the Simcere Territory. Simcere will be responsible for all development and commercialization costs in its territory and may be able to participate in global clinical trials as agreed upon by the companies.

On July 13, 2022, the NMPA conditionally approved COSELA (trilaciclib hydrochloride for injection) for marketing in China. As a result of receiving approval in China, Simcere paid us a \$13.0 million milestone payment (less applicable withholding taxes of \$1.3 million) in the third quarter of 2022. For the completion of manufacturing technology transfer in the third quarter of 2022, Simcere paid us a \$1.0 million (less applicable withholding taxes of \$0.1 million) milestone payment in October 2022. We recognized \$14.0 million of revenue related to development milestones during the year ended December 31, 2022.

Cash flows

The following table summarizes our cash flows for the periods indicated:

	Year Ended December 31,		
	2022	2021	2020
	(in thousands)		
Net cash used in operating activities	\$ (128,620)	\$ (132,108)	\$ (83,742)
Net cash provided/used in investing activities	(50,529)	—	152
Net cash provided by financing activities	52,495	145,863	21,688
Net change in cash, cash equivalents, and restricted cash	<u>\$ (126,654)</u>	<u>\$ 13,755</u>	<u>\$ (61,902)</u>

Net cash used in operating activities

During the year ended December 31, 2022, net cash used in operating activities was \$128.6 million, which consisted of a net loss of \$147.6 million, accretion of discount on available for sale securities of \$0.4 million, and a decrease in net operating assets and liabilities of \$5.3 million, partially offset by an increase in non-cash equity interest of \$0.5 million, non-cash stock compensation expense of \$20.6 million, \$0.5 million of depreciation expense, \$2.2 million in amortization of debt issuance costs, and \$0.9 million of non-cash interest expense.

During the year ended December 31, 2021, net cash used in operating activities was \$132.1 million, which consisted of a net loss of \$148.4 million and a decrease in net operating assets and liabilities of \$8.8 million, partially offset by an increase in non-cash equity interest of \$0.4 million, non-cash stock compensation expense of \$22.3 million, \$0.5 million of depreciation expense, \$1.1 million in amortization of debt issuance costs, \$0.6 million of non-cash interest expense, and \$0.2 million from loss on extinguishment of debt.

During the year ended December 31, 2020, net cash used in operating activities was \$83.7 million, which consisted of a net loss of \$99.3 million, a decrease in net operating assets and liabilities of \$4.0 million, and a decrease in non-cash equity interest of \$0.9 million, partially offset by non-cash stock compensation expense of \$18.8 million, \$0.6 million of depreciation expense, \$0.6 million in amortization of debt issuance costs, \$0.3 million loss on disposal of fixed assets, and \$0.2 million of non-cash interest expense.

Net cash used in investing activities

During the year ended December 31, 2022, net cash used in investing activities was \$50.5 million, due to the purchase of \$65.0 million in marketable securities and \$0.5 million of manufacturing equipment placed in service during the year, offset by maturities of \$15.0 million in marketable securities.

For the year ended December 31, 2021, there was no cash provided or used in investing activities.

Net cash used in investing activities was \$0.2 million for the year ended December 31, 2020, which represented proceeds from the disposal of property and equipment.

Net cash provided by financing activities

During the year ended December 31, 2022, net cash provided by financing activities was \$52.5 million, which consisted of \$52.3 million in net proceeds from our public offering after deducting cash paid during the year for underwriting discounts and commissions and other expenses, and \$0.2 million in net proceeds from the exercise of stock options.

During the year ended December 31, 2021, net cash provided by financing activities was \$145.9 million, which consisted of \$86.4 million in net proceeds from our ATM offering after deducting cash paid during the year for underwriting discounts and commissions and other expenses, \$55.0 million in proceeds from our loan agreement with Hercules, partially offset by \$1.4 million in payments related to debt issuances costs, and \$5.9 million in net proceeds from the exercise of stock options.

During the year ended December 31, 2020, net cash provided by financing activities was \$21.7 million, which consisted of \$2.3 million in net proceeds from the exercise of stock options and \$20.0 million in proceed from our loan agreement with Hercules, partially offset by \$0.6 million in payments related to debt issuances costs.

Operating capital requirements and plan of operations

To date, we have generated limited revenue from product sales. We expect our expenses to increase as we continue the development of and seek additional regulatory approvals for trilaciclib, and continue to commercialize COSELA. We are subject to all of the risks inherent in the development of new products, and we may encounter unforeseen expenses, difficulties, complications, delays and other unknown factors that may adversely affect our business.

We have concluded that substantial doubt exists about the Company's ability to continue as a going concern for a period of at least 12 months following the filing of this Annual Report.

We have based our projections of operating capital requirements on assumptions that may prove to be incorrect and we may use all of our available capital resources sooner than we expect. Because of the numerous risks and uncertainties associated with research, development and commercialization of pharmaceutical products, we are unable to estimate the exact amount of our operating capital requirements. Our future funding requirements will depend on many factors, including, but not limited to:

- the scope, progress, results and costs of nonclinical development, laboratory testing and clinical trials for our product candidates;
- the scope, prioritization and number of our research and development programs;

- the costs, timing and outcome of regulatory review of our product candidates;
- the extent to which we enter into non-exclusive, jointly funded clinical research collaboration arrangements, if any, for the development of our product candidates in combination with other companies' products;
- our ability to establish such collaborative co-development arrangements on favorable terms, if at all;
- the achievement of milestones or occurrence of other developments that trigger payments under our license agreements and any collaboration agreements into which we enter;
- the extent to which we are obligated to reimburse, or entitled to reimbursement of, clinical trial costs under future collaboration agreements, if any;
- the extent to which we acquire or in-license product candidates and technologies and the terms of such in-licenses;
- the costs of commercialization activities, including product sales, marketing, manufacturing and distribution, for any of our product candidates for which we receive marketing approval;
- the potential benefit of the NMPA's conditional approval for our products and product candidates and our ability to provide comprehensive clinical data from post-approval clinical research;
- revenue received from commercial sales of our product candidates;
- our ability to meet the required financial covenants under our loan agreement;
- the costs of preparing, filing and prosecuting patent applications, maintaining and enforcing our intellectual property rights and defending intellectual property-related claims; and
- global economic uncertainty, rising inflation, rising interest rates, market disruptions and volatility in commodity prices.

Until such time, if ever, as we can generate substantial revenues, we expect to finance our cash needs through a combination of equity offerings, debt financings, other third-party funding, marketing and distribution arrangements and other collaborations, strategic alliances and licensing arrangements. Other than amounts included under the terms of our licensing arrangements and the loan agreement with Hercules, which are subject to certain conditions, we do not have any committed external source of funds. We may be bound by ongoing compliance with financial covenants under the loan agreement with Hercules. To the extent that we raise additional capital through the sale of equity or convertible debt securities, our stockholders' ownership interest will be diluted, and the terms of these securities may include liquidation or other preferences that adversely affect your rights as a common stockholder. Debt financing, if available, may involve agreements that include covenants limiting or restricting our ability to take specific actions, such as incurring additional debt, making capital expenditures or declaring dividends. If we raise funds through additional collaborations, strategic alliances or licensing arrangements with third parties, we may have to relinquish valuable rights to our technologies, future revenue streams, research programs or product candidates or to grant licenses on terms that may not be favorable to us. If we are unable to raise additional funds when needed, we may be required to delay, limit, reduce or terminate our product development or future commercialization efforts or grant rights to develop and market product candidates that we would otherwise prefer to develop and market ourselves.

Contractual Obligations, Commitments and Contingencies

Our principal commitments consist of obligations under our clinical trial commitments, consulting fees, operating lease commitments and long-term debt obligations. The following table summarizes these contractual obligations as of December 31, 2022:

	Payments due by period				
	Total	Less than 1 Year	1 to 3 Years	3 to 5 Years	More Than 5 Years
(in thousands)					
Contractual Obligations:					
Operating lease obligations (1)	\$ 8,168	\$ 1,634	\$ 3,404	\$ 3,130	\$ —
Long-term debt obligation, including interest and end of term charge (2)	112,774	10,175	58,002	44,597	—
Total contractual obligations (3, 4, 5)	<u>\$ 120,942</u>	<u>\$ 11,809</u>	<u>\$ 61,406</u>	<u>\$ 47,727</u>	<u>\$ —</u>

- (1) Represents future minimum lease payments under the non-cancelable lease for our headquarters in Research Triangle Park, NC and our former headquarters in Research Triangle Park, NC. The lease for the new office space commenced in September 2019 for approximately 60,000 square feet of laboratory space and office space in Research Triangle Park, NC. The lease will expire in September 2027, with the Company having the option to renew for an additional five years. The lease for our former headquarters expired in December 2022. The minimum lease payments above do not include any related common area maintenance charges or real estate taxes.
- (2) Amounts in the table reflect payments due for our Fourth Amendment to the Loan and Security Agreement with Hercules with outstanding borrowings of \$75.0 million as of December 31, 2022. The amounts in the table above reflect interest-only payments through December 1, 2024 with payments on principal beginning thereafter. For purposes of the table above, interest payments were calculated using an annual interest rate of 13.4%, which was the interest rate in effect as of December 31, 2022. Additionally, the table above includes end of term charges of \$2.1 million due on June 1, 2025 and \$5.1 million due upon maturity on November 1, 2026. See Note 8 of the financial statements for further discussion of the Hercules loan agreement.
- (3) We enter into agreements in the normal course of business with contract research organizations (CROs) for clinical trials and with vendors for preclinical studies and other services and products for operating purposes which are cancellable at any time by us, generally upon 30-60 days prior written notice. As of December 31, 2022, we have several on-going clinical studies in various stages. Under agreements with various CROs and clinical study sites, we incur expenses related to clinical studies of our product candidates and potential other clinical candidates. The timing and amounts of these disbursements are contingent upon the services rendered or as expenses are incurred by the CROs or clinical trial sites. Therefore, we cannot estimate the potential timing and amount of these payments and they have been excluded from the table above. Also, the above amounts exclude potential payments to be made under our license agreement for rintodestrant with the University of Illinois that are based on the progress of rintodestrant, as these payments are not determinable.
- (4) We entered into a Product Agreement with Patheon Manufacturing Services, LLC as issued under the Master Manufacturing Services Agreement dated August 27, 2019 to manufacture and supply trilaciclib for commercial production. The initial term of the agreement is effective until December 31, 2024. If the annual volume of product ordered does not meet a specified amount, a true-up payment to this minimum will be due at the end of the applicable year. This minimum purchase amount was excluded from the table above as the conditions of the committed amount make it undeterminable at this time.
- (5) We entered into a three-year co-promotion agreement in the United States and Puerto Rico with Boehringer Ingelheim Pharmaceuticals, Inc., or BI, in June 2020. In December 2021, G1 and BI announced that the parties mutually agreed to end the co-promotion agreement for COSELA, effective March 2022. At that time, we announced that we would hire and deploy our own oncology sales team to accelerate sales activities and help maximize the adoption of COSELA. For two years following the termination, sales payments to BI will be decreased to mid-single digit percentages of net sales. The sales payments will vary based on the level of net sales in an applicable year following the termination. Our obligations to make sales payments under the co-promotion agreement will terminate in March 2024.

Off-Balance Sheet Arrangements

We did not have, during the periods presented, and we do not currently have, any off-balance sheet arrangements, as defined under applicable SEC rules.

Recent Accounting Pronouncements

See Note 2 to our financial statements included elsewhere in this report regarding the impact of certain recent accounting pronouncements on our financial statements.

Item 7A. Quantitative and Qualitative Disclosures About Market Risk.

We are exposed to market risks in the ordinary course of our business. These risks primarily include interest rate sensitivities, which are affected by changes in the general level of U.S. interest rates. We had cash and cash equivalents of \$94.6 million and marketable securities of \$50.5 million as of December 31, 2022. Cash and cash equivalents consist of deposits in banks, including checking accounts, money market accounts and certificates of deposit. Marketable securities consist of U.S. Treasury bills. Such interest-earning instruments carry a degree of interest rate risk; however, historical fluctuations in interest income have not been significant. Due to the short-term nature of our cash equivalents, a sudden change in interest rates would not be expected to have a material effect on our business, financial condition or results of operations.

We also have exposure to market risk on our loan agreement with Hercules. Our loan agreement (as such is amended from time to time) accrues interest from its date of issue at a variable interest rate equal to the greater of either (i) (a) the prime rate as reported in The Wall Street Journal, plus (b) 5.90%, and (ii) 9.15%. As of December 31, 2022, \$75.0 million of principal was outstanding under the loan agreement with Hercules.

We are not currently exposed to significant market risk related to changes in foreign currency exchange rates; however, our operations may be subject to fluctuations in foreign currency exchange rates in the future.

Inflation generally affects us by increasing our cost of labor. We do not believe that inflation had a material effect on our business financial condition or results of operations three and twelve months ended December 31, 2022.

Item 8. Financial Statements and Supplementary Data.

The financial statements of G1 Therapeutics, Inc. are provided in Part IV, Item 15 in this Annual Report.

Item 9. Changes in and Disagreements With Accountants on Accounting and Financial Disclosure.

Not Applicable.

Item 9A. Controls and Procedures.

Evaluation of Disclosure Controls and Procedures

We maintain disclosure controls and procedures that are designed to ensure that information required to be disclosed in the reports that we file or submit under the Securities and Exchange Act of 1934 is (i) recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms and (ii) accumulated and communicated to our management, including our principal executive officer and principal financial officer, to allow timely decisions regarding required disclosure.

As of December 31, 2022, our management, with the participation of our principal executive officer and principal financial officer, evaluated the effectiveness of our disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934). Our management recognizes that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving their objectives, and management necessarily applies its judgement in evaluating the cost-benefit relationship of possible controls and procedures. Our principal executive officer and principal financial officer have concluded based upon the evaluation described above that, as of December 31, 2022, our disclosure controls and procedures were effective at the reasonable assurance level.

Changes in Internal Controls Over Financial Reporting

There were no changes in our internal control over financial reporting that occurred during 2022 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

Management's Report on Internal Control Over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting, as such term is defined in Exchange Act Rule 13a-15(f) and 15d-15(f). Under the supervision and with the participation of our management, including our Chief Executive Officer and our Chief Financial Officer, we conducted an evaluation of the effectiveness of our internal control over financial reporting based on the framework in *Internal Control—Integrated Framework* (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). Based on our evaluation under the framework in *Internal Control—Integrated Framework*, our management concluded that our internal control over financial reporting was effective as of December 31, 2022.

Item 9B. Other Information.

CFO Transition

On March 1, 2023, the Company announced that John W. Umstead V, will be appointed as the Company's Chief Financial Officer, effective March 15, 2023, as Jennifer K. Moses decided to step down from the position of Chief Financial Officer, effective March 15, 2023, and as an employee of the Company as of March 31, 2023. Mr. Umstead has served as the Company's Controller since January 2021 and, prior to that, led the Company's financial reporting since joining the Company in October 2018. From September 2013 to October 2018, Mr. Umstead worked for PricewaterhouseCoopers LLP serving clients in various industries ranging from small private companies to large publicly traded corporations. During his time at PricewaterhouseCoopers LLP, he started in the audit and assurance practice on engagements for publicly traded companies, and later moved into the Capital Markets Accounting and Advisory Services group within the U.S. Deals Practice where he advised public and private companies in complex accounting and financial reporting matters related to business combinations, debt and equity financings, divestitures, IPO readiness, and other areas involving technical accounting. Prior to joining PricewaterhouseCoopers LLP, Mr. Umstead spent five years in commercial banking. Mr. Umstead earned a Master of Accounting from the Kenan-Flagler Business School at the University of North Carolina at Chapel Hill and a B.A. in Political Science from the University of North Carolina at Chapel Hill. Mr. Umstead is a certified public accountant in the State of North Carolina.

The Company and Mr. Umstead have entered into an employment agreement, effective March 15, 2023 (the "Employment Agreement"). Pursuant to the Employment Agreement, Mr. Umstead will receive an initial annual base salary of \$405,000. Mr. Umstead is also eligible to receive an annual discretionary bonus award of up to 40% of his then-current base salary ("Discretionary Bonus"). The Discretionary Bonus award, if any, will be determined by the Board of Directors or a committee thereof.

In connection with his appointment, Mr. Umstead will receive stock options to purchase 100,000 shares of the Company's common stock (the "Stock Options"), par value \$0.0001 per share ("Common Stock"), at an exercise price equal to the closing price of the Common Stock on the Nasdaq Global Select Market on March 15, 2023, and 50,000 restricted stock units ("RSUs") with respect to shares of Common Stock. Both the Stock Options and the RSUs will be granted pursuant to and subject to the terms and conditions of the Company's 2017 Employee, Director and Consultant Equity Incentive Plan. The Stock Options will have a ten-year term and will vest as to 25% of the shares on the first anniversary of the grant date and as to an additional 1/48th of the shares monthly thereafter and the RSUs will vest as to one-fourth (1/4th) of the total number of such RSUs on each of the first, second, third, and fourth anniversaries of the grant date, subject to Mr. Umstead's continued service with the Company through the applicable vesting dates.

In the event of a change of control of the Company in which Mr. Umstead's employment is terminated by the Company without cause (as defined in the Employment Agreement) or Mr. Umstead resigns for good reason (as defined in the Employment Agreement) within ninety (90) days of the change of control, 100% of any unvested portion of the Stock Options and RSUs will vest. Mr. Umstead had previously entered into a Non-Competition and Non-Solicitation Agreement and a Confidentiality and Inventions Agreement with the Company. Mr. Umstead will also enter into an Indemnification Agreement with the Company relating to his position as Chief Financial Officer.

Under the terms of the Employment Agreement, Mr. Umstead's employment with the Company may be terminated at any time, with or without cause and without any prior notice, by either Mr. Umstead or the Company. If the Company terminates Mr. Umstead's employment without cause or Mr. Umstead terminates his employment for good reason, he will be entitled to receive continuation of his then-current base salary for a period of twelve months, which will be payable in periodic installments in accordance with the Company's payroll practices and procedures beginning on the sixtieth (60th) day following Mr. Umstead's termination.

There are no transactions to which the Company is a party and in which Mr. Umstead has a material interest that are required to be disclosed under Item 404(a) of Regulation S-K. Mr. Umstead has no family relationship with any directors or executive officers of the Company.

Ms. Moses will continue to be Chief Financial Officer of the Company through March 15, 2023, and as an employee through March 31, 2023, pursuant to the terms of her current employment agreement with the Company dated May 8, 2019 (the "Moses Employment Agreement"). The Moses Employment Agreement will automatically terminate on March 31, 2023 and Ms. Moses will begin her service as a senior advisor to the Company pursuant to the terms of a senior advisor agreement dated March 1, 2023 (the "Moses Senior Advisor Agreement"), which will take effect simultaneously with the termination of the Moses Employment Agreement. The Moses Senior Advisor Agreement will have a term that expires on March 31, 2024. Pursuant to the terms of the Moses Senior Advisor Agreement, Ms. Moses will receive \$25,000 annually for her services paid in equal monthly installments. In addition, Ms. Moses' currently outstanding equity, including stock options, RSUs, and Performance Stock Units ("PSUs") will continue to vest pursuant to their current vesting schedules while Ms. Moses serves as a senior advisor. Further, upon a change in control of the Company, all of Ms. Moses' unvested equity, including stock options, RSUs, and PSUs will vest and become immediately exercisable.

A copy of Mr. Umstead's Employment Agreement and a copy of the Moses Senior Advisor Agreement are attached hereto as exhibits 10.25 and 10.22, respectively.

Item 9C. Disclosure Regarding Foreign Jurisdictions that Prevent Inspections

Not applicable.

PART III

Item 10. Directors, Executive Officers and Corporate Governance.

The information required by this item is incorporated herein by reference from the Company's Proxy Statement for the 2023 Annual Meeting of Stockholders, which will be filed with the SEC within 120 days after the end of our 2022 fiscal year pursuant to Regulation 14A for our 2023 Annual Meeting of Stockholders (the "Proxy Statement"), except for the information provided under the caption "Pay Versus Performance." The additional information required by this Item is included under the captions "Management and Corporate Governance," "Election of Directors," "Certain Relationships and Related Party Transactions," "Delinquent Section 16(a) Reports" and other information included in the Proxy Statement and is incorporated herein by reference.

Item 11. Executive Compensation.

The information required by this item is incorporated herein by reference from the Proxy Statement under the captions "Compensation of Named Executive Officers and Director," "Compensation Discussion and Analysis," "Compensation Committee Report," and "Management and Corporate Governance – Compensation Committee Interlocks and Insider Participation."

Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters.

The information required by this item is incorporated herein by reference from the Proxy Statement, under the captions "Security Ownership of Certain Beneficial Owners and Management" and "Equity Compensation Plan Information."

Item 13. Certain Relationships and Related Transactions, and Director Independence.

The information required by this item is incorporated herein by reference from the Proxy Statement, under the captions "Management and Corporate Governance" and "Certain Relationships and Related Person Transactions."

Item 14. Principal Accounting Fees and Services.

The information required by this item is incorporated herein by reference from the Proxy Statement under the caption "Independent Registered Public Accounting Firm."

PART IV

Item 15. Exhibits, Financial Statement Schedules.

The following documents are filed as part of this Annual Report:

- (a) *Financial Statements.*

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- (b) *Financial Statement Schedules.*

No financial statement schedules are provided because the information called for is not required or is shown either in the financial statements or notes.

- (c) *Exhibits.*

Exhibit Number	Description
3.1	Amended and Restated Certificate of Incorporation of G1 Therapeutics, Inc., dated as of May 22, 2017, filed as Exhibit 3.1 to the Registrant's Current Report on Form 8-K filed on May 26, 2017 (File No. 001-38096), and incorporated herein by reference.
3.2	Certificate of Correction to G1 Therapeutics, Inc.'s Amended and Restated Certificate of Incorporation filed on May 22, 2017, dated June 30, 2021, filed as Exhibit 3.1 to the Registrant's Current Report on Form 8-K filed on July 2, 2021 (File No. 001-38096), and incorporated herein by reference.
3.3	Amended and Restated Bylaws of G1 Therapeutics, Inc., dated as of May 22, 2017, filed as Exhibit 3.2 to the Registrant's Current Report on Form 8-K filed on May 26, 2017 (File No. 001-38096), and incorporated herein by reference.
4.1	Specimen Common Stock Certificate, filed as Exhibit 4.1 to the Registrant's Second Amendment to the Registration Statement on Form S-1 filed on May 8, 2017 (File No. 333-217285), and incorporated herein by reference.
4.2	Description of Securities of the Registrant.
4.3	Second Amended and Restated Registration Rights Agreement, dated as of April 27, 2016, by and among the Registrant and the Stockholders listed therein, filed as Exhibit 4.6 to the Registrant's Registration Statement on Form S-1 filed on April 13, 2017 (File No. 333-217285), and incorporated herein by reference.

- 10.1** [Exclusive License Agreement, dated November 23, 2016, by and between the Registrant and The Board of Trustees of the University of Illinois, filed as Exhibit 10.11 to the Registrant's Registration Statement on Form S-1 filed on April 13, 2017 \(File No. 333-217285\), and incorporated herein by reference.](#)
- 10.2** [Amendment No. 1 to Exclusive License Agreement, dated March 24, 2017, by and between the Registrant and The Board of Trustees of the University of Illinois, filed as Exhibit 10.12 to the Registrant's Registration Statement on Form S-1 filed on April 13, 2017 \(File No. 333-217285\), and incorporated herein by reference.](#)
- 10.3** [Loan and Security Agreement, by and between the Registrant and Hercules Capital, Inc., dated May 29, 2020, filed as Exhibit 10.2 to the Registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2020 filed on August 5, 2020 \(File No. 001-38096\), and incorporated herein by reference.](#)
- 10.4 [First Amendment to Loan and Security Agreement, by and between the Registrant and Hercules Capital, Inc., dated March 31, 2021, filed as Exhibit 10.1 to the Registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2021 filed on May 5, 2021 \(File No. 001-38096\), and incorporated herein by reference.](#)
- 10.5** [Second Amendment to Loan and Security Agreement, by and between the Registrant and Hercules Capital, Inc., dated November 1, 2021, filed as Exhibit 10.2 to the Registrant's Quarterly Report on Form 10-Q for the quarter ended September 30, 2021 filed on November 3, 2021 \(File No. 001-38096\), and incorporated herein by reference.](#)
- 10.6** [Third Amendment to Loan and Security Agreement, by and between the Registrant and Hercules Capital, Inc., dated June 24, 2022, filed as Exhibit 10.1 to the Registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2022 filed on August 3, 2022 \(File No. 001-38096\), and incorporated herein by reference.](#)
- 10.7** [Fourth Amendment to Loan and Security Agreement by and between Registrant and Hercules Capital, Inc., dated November 1, 2022, filed as Exhibit 10.1 to the Registrant's Quarterly Report on Form 10-Q for the quarter ended September 30, 2022 filed on November 2, 2022 \(File No. 001-38096\), and incorporated herein by reference.](#)
- 10.8** [Co-Promotion Agreement by and between the Registrant and Boehringer Ingelheim Pharmaceuticals, Inc., dated June 29, 2020, filed as Exhibit 10.3 to the Registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2020 filed on August 5, 2020 \(File No. 001-38096\), and incorporated herein by reference.](#)
- 10.9** [Mutual Termination, Release, and Settlement Agreement by and between the Registrant and Boehringer Ingelheim Pharmaceuticals, Inc., dated as of December 15, 2021, filed as Exhibit 10.7 to the Registrant's Annual Report on Form 10-K for the year ended December 31, 2021 filed on February 23, 2022 \(File No. 001-38096\), and incorporated herein by reference.](#)
- 10.10* [2011 Equity Incentive Plan, dated March 3, 2011, as amended; First Amendment effective August 27, 2011; Second Amendment effective October 8, 2013; Third Amendment effective February 4, 2015; Fourth Amendment effective December 10, 2015; Fifth Amendment effective April 27, 2016; and Sixth Amendment effective November 7, 2016, filed as Exhibit 10.2 to the Registrant's Registration Statement on Form S-1 filed on April 13, 2017 \(File No. 333-217285\), and incorporated herein by reference.](#)
- 10.11* [Amended and Restated 2017 Employee, Director and Consultant Equity Plan, filed as Exhibit 10.4 to the Registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2018 filed on August 8, 2018 \(File No. 001-38096\), and incorporated herein by reference.](#)
- 10.12* [Amended and Restated 2021 Inducement Equity Incentive Plan, filed as Exhibit 10.1 to the Registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2022 filed on May 4, 2022 \(File No. 001-38096\), and incorporated herein by reference.](#)

- 10.13* [Form of Indemnification Agreement, filed as Exhibit 10.1 to the Registrant's Second Amendment to the Registration Statement on Form S-1 filed on May 8, 2017 \(File No. 333-217285\), and incorporated herein by reference.](#)
- 10.14* [Non-Employee Director Compensation Policy, filed as Exhibit 10.13 to the Registrant's Second Amendment to the Registration Statement on Form S-1 filed on May 8, 2017 \(File No. 333-217285\), and incorporated herein by reference. Amended and Restated Non-Employee Director Compensation Policy effective as of June 12, 2019, filed as Exhibit 10.1 to the Registrant's Form 8-K filed on June 13, 2019 \(File No. 001-38096\), and incorporated herein by reference.](#)
- 10.15* [Second Amended and Restated Non-Employee Director Compensation Policy, filed as Exhibit 10.1 to the Registrant's Current Report on Form 8-K filed on June 21, 2021 \(File No. 001-38096\), and incorporated herein by reference.](#)
- 10.16* [Employment Agreement by and between Registrant and John E. Bailey, Jr. dated September 29, 2020, filed as Exhibit 10.1 to the Registrant's Quarterly Report on Form 10-Q for the quarter ended September 30, 2020 filed on November 4, 2020 \(File No. 001-38096\), and incorporated herein by reference.](#)
- 10.17* [Senior Advisor Agreement between Registrant and John E. Bailey, Jr. dated September 29, 2020, filed as Exhibit 10.2 to the Registrant's Quarterly Report on Form 10-Q for the quarter ended September 30, 2020 filed on November 4, 2020 \(File No. 001-38096\), and incorporated herein by reference.](#)
- 10.18* [Employment Agreement by and between the Registrant and Mark Avagliano, dated as of July 29, 2019, filed as Exhibit 10.4 to the Registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2019 filed on August 7, 2019 \(File No. 001-38096\), and incorporated herein by reference.](#)
- 10.19* [Employment Agreement by and between the Registrant and James S. Hanson, dated as of June 25, 2018, filed as Exhibit 10.2 to the Registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2018 filed on August 8, 2018 \(File No. 001-38096\), and incorporated herein by reference.](#)
- 10.20* [Employment Agreement, by and between the Registrant and Rajesh K. Malik, M.D., dated July 1, 2014, as amended; First Amendment effective May 5, 2017, filed as Exhibit 10.5 to the Registrant's Second Amendment to the Registration Statement on Form S-1 filed on May 8, 2017 \(File No. 333-217285\), and incorporated herein by reference; and Second Amendment effective June 12, 2019, filed as Exhibit 10.2 to the Registrant's Form 8-K filed on June 13, 2019 \(File No. 001-38096\), and incorporated herein by reference.](#)
- 10.21* [Amended and Restated Employment Agreement by and between the Registrant and Jennifer K. Moses dated May 8, 2019, filed as Exhibit 10.1 to the Registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2019 filed on May 9, 2019 \(File No. 001-38096\), and incorporated herein by reference.](#)
- 10.22*† [Senior Advisor Agreement between Registrant and Jennifer K. Moses dated February 28, 2023.](#)
- 10.23* [Employment Agreement by and between the Registrant and Terry Murdock, dated as of August 1, 2017, filed as Exhibit 10.1 to the Registrant's Quarterly Report on Form 10-Q for the quarter ended September 30, 2017 filed on November 8, 2017 \(File No. 001-38096\) incorporated herein by reference; and First Amendment effective June 12, 2019, filed as Exhibit 10.3 to the Registrant's Form 8-K filed on June 13, 2019 \(File No. 001-38096\), and incorporated herein by reference.](#)
- 10.24* [Employment Agreement by and between Registrant and Andrew Perry dated July 28, 2021, filed as Exhibit 10.2 to the Registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2021 filed on August 4, 2021 \(File No. 001-38096\) incorporated herein by reference.](#)

10.25*†	Employment Agreement by and between the Registrant and John W. Umstead V, dated as of February 28, 2023.
10.26*	Senior Advisor Agreement between Registrant and Mark A. Velleca, M.D., Ph.D. dated September 29, 2020, filed as Exhibit 10.3 to the Registrant's Quarterly Report on Form 10-Q for the quarter ended September 30, 2020 filed on November 4, 2020 (File No. 001-38096), and incorporated herein by reference.
10.27	Sales Agreement by and between the Registrant and Cowen and Company, LLC, dated as of July 2, 2021, filed as Exhibit 1.2 to the Registrant's Registration Statement on Form S-3ASR filed on July 2, 2021 (File No. 333-257640), and incorporated herein by reference.
10.28	Sales Agreement by and between the Registrant and Cowen and Company, LLC, dated as of February 23, 2022, filed as Exhibit 10.29 to the Registrant's Annual Report on Form 10-K for the year ended December 31, 2021 filed on February 23, 2022 (File No. 001-38096), and incorporated herein by reference.
10.29	Underwriting Agreement dated November 17, 2022 by and among the Registrant and Cowen and Company, LLC and Raymond James & Associates, Inc., as representatives of the several underwriters named in Schedule A thereto, filed as Exhibit 1.1 to the Registrant's Current Report on Form 8-K filed on November 21, 2022 (File No. 001-38096), and incorporated herein by reference.
21.1	Subsidiaries of the Registrant, filed as Exhibit 21.1 to the Registrant's Registration Statement on Form S-1 filed on April 13, 2017 (File No. 333-217285), and incorporated herein by reference.
23.1	Consent of PricewaterhouseCoopers LLP.
31.1	Certification of Principal Executive Officer Pursuant to Rules 13a-14(a) and 15d-14(a) under the Securities Exchange Act of 1934, as Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
31.2	Certification of Principal Financial Officer Pursuant to Rules 13a-14(a) and 15d-14(a) under the Securities Exchange Act of 1934, as Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
32.1	Certification of Principal Executive Officer Pursuant to 18 U.S.C. § 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
32.2	Certification of Principal Financial Officer Pursuant to 18 U.S.C. § 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
101.INS	Inline XBRL Instance Document
101.SCH	Inline XBRL Taxonomy Extension Schema Document
101.CAL	Inline XBRL Taxonomy Extension Calculation Linkbase Document
101.DEF	Inline XBRL Taxonomy Extension Definition Linkbase Document
101.LAB	Inline XBRL Taxonomy Extension Label Linkbase Document
101.PRE	Inline XBRL Taxonomy Extension Presentation Linkbase Document

* Management contract or compensatory plan or arrangement.

** Confidential treatment has been requested for portions of this exhibit. These portions have been omitted and have been filed separately with the U.S. Securities and Exchange Commission.

† Filed herewith.

Item 16. Form 10-K Summary.

None.

Report of Independent Registered Public Accounting Firm

To the Board of Directors and Stockholders of G1 Therapeutics, Inc.

Opinion on the Financial Statements

We have audited the accompanying balance sheets of G1 Therapeutics, Inc. (the “Company”) as of December 31, 2022 and 2021, and the related statements of operations, of redeemable convertible preferred stock and stockholders’ equity (deficit) and of cash flows for each of the for each of the three years in the period ended December 31, 2022, including the related notes (collectively referred to as the “financial statements”). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2022 and 2021, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2022 in conformity with accounting principles generally accepted in the United States of America.

Substantial Doubt about the Company’s Ability to Continue as a Going Concern

The accompanying financial statements have been prepared assuming that the Company will continue as a going concern. As discussed in Note 2 to the financial statements, the Company has experienced net losses since its inception and expects that cash and cash equivalents and marketable securities as of December 31, 2022 will not be sufficient to fund the Company’s planned operations and remain in compliance with its financial covenants for the next 12 months from the date of issuance of the financial statements, which raise substantial doubt about its ability to continue as a going concern. Management’s plans in regard to these matters are also described in Note 2. The financial statements do not include any adjustments that might result from the outcome of this uncertainty.

Basis for Opinion

These financial statements are the responsibility of the Company’s management. Our responsibility is to express an opinion on the Company’s financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits of these financial statements in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company’s internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

Critical Audit Matters

The critical audit matter communicated below is a matter arising from the current period audit of the financial statements that was communicated or required to be communicated to the audit committee and that (i) relates to accounts or disclosures that are material to the financial statements and (ii) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the financial statements, taken as a whole, and we are not, by communicating the critical audit matter below, providing a separate opinion on the critical audit matter or on the accounts or disclosures to which it relates.

Accrued External Clinical Study Costs

As described in Notes 2 and 6 to the financial statements, management estimated and accrued research and development expenses including external clinical study costs associated with clinical trial activities. The Company's accrued external clinical study costs were \$15.6 million as of December 31, 2022. The process of estimating and accruing expenses involved reviewing contracts and purchase orders, identifying services that have been provided on the Company's behalf, and estimating the level of service performed and the associated cost incurred for the service when the Company has not yet been invoiced or otherwise notified of the actual cost. Costs for clinical trial activities were estimated based on an evaluation of the vendors' progress towards completion of specific tasks, using data such as patient enrollment, clinical site activations or information provided by vendors regarding their actual costs incurred. Management determined accrual estimates through reports from and discussion with applicable personnel and outside service providers as to the progress or state of completion of trials, or the services completed.

The principal considerations for our determination that performing procedures relating to accrued external clinical study costs is a critical audit matter are the significant judgment by management in estimating the costs incurred to date, specifically progress towards completion of specific tasks. This in turn led to a high degree of auditor judgment, subjectivity and effort in performing procedures and evaluating audit evidence relating to cost estimates made by management to establish accrued external clinical study costs.

Addressing the matter involved performing procedures and evaluating audit evidence in connection with forming our overall opinion on the financial statements. These procedures included testing the effectiveness of controls relating to the completeness and accuracy of accrued external clinical study costs. These procedures also included, among others, (i) testing management's process for estimating accrued external clinical study costs, (ii) evaluating the appropriateness of the method used by management to develop the estimate, (iii) evaluating the reasonableness of significant assumptions, including progress towards completion of specific tasks and the associated cost incurred for services when the Company has not yet been invoiced or otherwise notified of the actual cost, and (iv) testing the completeness and accuracy of underlying data used in the model.

/s/ PricewaterhouseCoopers LLP
Raleigh, NC
March 1, 2023

We have served as the Company's auditor since 2014.

G1 Therapeutics, Inc.
Balance Sheets
(in thousands, except share and per share amounts)

	<u>December 31, 2022</u>	<u>December 31, 2021</u>
Assets		
Current assets		
Cash and cash equivalents	\$ 94,594	\$ 221,186
Restricted cash	63	63
Marketable securities	50,476	—
Accounts receivable and unbilled receivables, net	11,094	5,688
Inventories	16,179	3,471
Prepaid expenses and other current assets	7,094	13,157
Total current assets	\$ 179,500	\$ 243,565
Property and equipment, net	1,989	2,013
Restricted cash	250	312
Operating lease assets	5,962	7,035
Other assets	264	1,169
Total assets	\$ 187,965	\$ 254,094
Liabilities and Stockholders' Equity		
Current liabilities		
Accounts payable	\$ 7,431	\$ 2,897
Accrued expenses	25,557	23,180
Deferred revenue	7	31
Other current liabilities	2,593	1,505
Total current liabilities	35,588	27,613
Loan payable	77,015	75,190
Deferred revenue	1,000	1,000
Operating lease liabilities	5,615	6,750
Total liabilities	119,218	110,553
Stockholders' equity		
Common stock, \$0.0001 par value, 120,000,000 shares authorized as of December 31, 2022, and December 31, 2021; 51,526,100 and 42,588,814 shares issued as of December 31, 2022, and December 31, 2021, respectively; 51,499,434 and 42,562,148 shares outstanding as of December 31, 2022, and December 31, 2021, respectively	5	4
Treasury stock, 26,666 shares as of December 31, 2022, and December 31, 2021	(8)	(8)
Additional paid-in capital	800,768	728,004
Accumulated deficit	(732,018)	(584,459)
Total stockholders' equity	68,747	143,541
Total liabilities and stockholders' equity	\$ 187,965	\$ 254,094

The accompanying notes are an integral part of these financial statements.

G1 Therapeutics, Inc.
Statements of Operations
(in thousands, except share and per share amounts)

	Year Ended December 31,		
	2022	2021	2020
Revenues			
Product sales, net	\$ 31,337	\$ 11,120	\$ —
License revenue	19,964	20,356	45,285
Total revenues	51,301	31,476	45,285
Operating expenses			
Cost of goods sold	3,748	2,016	—
Research and development	83,316	76,225	73,271
Selling, general and administrative	100,415	95,692	68,490
Total operating expenses	187,479	173,933	141,761
Loss from operations	(136,178)	(142,457)	(96,476)
Other income (expense)			
Interest income	748	43	952
Interest expense	(10,432)	(4,667)	(1,778)
Other income (expense)	3	(346)	(542)
Total other income (expense), net	(9,681)	(4,970)	(1,368)
Loss before income taxes	\$ (145,859)	\$ (147,427)	\$ (97,844)
Income tax expense	1,700	925	1,410
Net loss	\$ (147,559)	\$ (148,352)	\$ (99,254)
Net loss per share, basic and diluted	\$ (3.38)	\$ (3.54)	\$ (2.62)
Weighted average common shares outstanding, basic and diluted	43,626,113	41,943,417	37,878,026

The accompanying notes are an integral part of these financial statements.

G1 Therapeutics, Inc.
Statements of Redeemable Convertible Preferred Stock and Stockholders' Equity (Deficit)
(in thousands, except share amounts)

	Common stock		Treasury stock		Additional paid-in capital	Accumulated deficit	Total stockholders' equity
	Shares	Amount	Shares	Amount			
Balance at December 31, 2019	37,638,260	\$ 4	(26,666)	\$ (8)	\$ 592,384	\$ (336,853)	\$ 255,527
Exercise of common stock options	502,496	—	—	—	2,308	—	2,308
Stock-based compensation	—	—	—	—	18,770	—	18,770
Net loss during year	—	—	—	—	—	(99,254)	(99,254)
Balance at December 31, 2020	38,140,756	\$ 4	(26,666)	\$ (8)	\$ 613,462	\$ (436,107)	\$ 177,351
Public offering (ATM)	3,513,027	—	—	—	86,378	—	86,378
Exercise of common stock options	935,031	—	—	—	5,845	—	5,845
Stock-based compensation	—	—	—	—	22,319	—	22,319
Net loss during year	—	—	—	—	—	(148,352)	(148,352)
Balance at December 31, 2021	42,588,814	\$ 4	(26,666)	\$ (8)	\$ 728,004	\$ (584,459)	\$ 143,541
Public offering	8,573,353	1	—	—	52,020	—	52,021
Exercise of common stock options	206,608	—	—	—	155	—	155
Restricted stock units vested	157,325	—	—	—	—	—	—
Stock-based compensation	—	—	—	—	20,589	—	20,589
Net loss during year	—	—	—	—	—	(147,559)	(147,559)
Balance at December 31, 2022	51,526,100	\$ 5	(26,666)	\$ (8)	\$ 800,768	\$ (732,018)	\$ 68,747

The accompanying notes are an integral part of these financial statements.

G1 Therapeutics, Inc.
Statements of Cash Flows
(amounts in thousands)

	Year Ended December 31,		
	2022	2021	2020
Cash flows from operating activities			
Net loss	\$ (147,559)	\$ (148,352)	\$ (99,254)
Adjustments to reconcile net loss to net cash used in operating activities			
Stock-based compensation	20,589	22,319	18,770
Accretion of discount on available for sale securities	(453)	—	—
Depreciation and amortization	530	469	582
Loss on disposal of fixed assets	—	—	322
Amortization of debt issuance costs	2,233	1,113	615
Loss on extinguishment of debt	—	220	—
Non-cash interest expense	850	591	166
Non-cash equity interest, net	497	370	(867)
Change in operating assets and liabilities			
Accounts receivable	(5,406)	(5,451)	(237)
Inventories	(12,708)	(3,471)	—
Prepaid expenses and other assets	7,184	(3,380)	(5,545)
Accounts payable	4,421	(675)	(244)
Accrued expenses and other liabilities	1,226	3,345	1,713
Deferred revenue	(24)	794	237
Net cash used in operating activities	(128,620)	(132,108)	(83,742)
Cash flows from investing activities			
Purchases of marketable securities	(65,023)	—	—
Maturities of marketable securities	15,000	—	—
Proceeds from disposal of property and equipment	—	—	152
Purchases of property and equipment	(506)	—	—
Net cash provided/used in investing activities	(50,529)	—	152
Cash flows from financing activities			
Proceeds from stock options exercised	155	5,845	2,308
Proceeds from loan agreement	—	55,000	20,000
Payments of debt issuance costs	—	(1,360)	(620)
Proceeds from public offering, net of underwriting fees and commissions	52,383	86,429	—
Payment of public offering costs	(43)	(51)	—
Net cash provided by financing activities	52,495	145,863	21,688
Net change in cash, cash equivalents and restricted cash	(126,654)	13,755	(61,902)
Cash, cash equivalents and restricted cash			
Beginning of period	221,561	207,806	269,708
End of period	<u>\$ 94,907</u>	<u>\$ 221,561</u>	<u>\$ 207,806</u>
Supplemental disclosure of cash flow information			
Cash paid for interest	7,924	2,908	997
Non-cash operating, investing and financing activities			
Upfront project costs and other current assets in accounts payable and accrued expenses	47	—	132
Public offering costs in accounts payable and accrued expenses	320	—	—

The accompanying notes are an integral part of these financial statements.

G1 Therapeutics, Inc.
Notes to Financial Statements

1. Description of Business

G1 Therapeutics, Inc. (the “Company”) is a commercial-stage biopharmaceutical company focused on the development and commercialization of novel small molecule therapeutics for the treatment of patients with cancer. The Company’s first product approved by the U.S. Food and Drug Administration (“FDA”), COSELA® (trilaciclib), is the first and only therapy indicated to proactively help protect bone marrow from the damage of chemotherapy (myeloprotection) and is the first innovation in managing myeloprotection in decades. In July 2022, COSELA (trilaciclib hydrochloride for injection) was conditionally approved by the China National Medical Products Administration (NMPA) for marketing in China.

Trilaciclib was developed from a technology platform that targets key cellular pathways including transient arrest of the cell cycle at the G1 phase, prior to the beginning of DNA replication. Controlled administration and clean G1 arrest from transient CDK4/6 inhibition can protect bone marrow and reduce hematologic adverse events (“AEs”) caused by cytotoxic therapy and may increase the ability to receive longer treatment durations. Transient CDK4/6 inhibition also may improve survival in combination with leading and emerging treatments through myeloprotection, enabling increased cytotoxic exposure while protecting the immune system, and/or through immunomodulation, which may improve patients’ overall anti-tumor immune responses. The Company is exploring the use of trilaciclib in a variety of trials across multiple tumor types and treatment combinations to optimize these potential benefits of proactive multi-lineage myeloprotection and survival in combination with leading and emerging treatments for patients globally.

COSELA is a prescription medicine used to help reduce the occurrence of low blood cell counts caused by damage to bone marrow from chemotherapy. COSELA is used to treat adults taking certain chemotherapies (platinum/etoposide or topotecan) for extensive-stage small cell lung cancer.

The Company’s clinical approach to designing its clinical program includes monitoring the evolution of future standards of care and develop trilaciclib with these in mind, allowing it to conduct or support trials that will generate important data to maximize future usage in a variety of future settings. The Company’s robust clinical pipeline includes the following ongoing trials:

- Phase 3 trial in 1L mTNBC (initial results including interim results for OS expected in 1H2024)
- Phase 2 trial in combination with the ADC Trodelvy (additional results including anti-tumor efficacy endpoints expected in 2Q2023)
- Phase 2 trial to confirm the immune-based mechanism of action (MOA) of trilaciclib in early-stage neoadjuvant TNBC (additional results including pCR and immune enhancements in tumor microenvironment expected in 2Q2023)
- Phase 2 trial in bladder cancer (additional results including the primary endpoint of the anti-tumor efficacy of trilaciclib expected midyear 2023)

The Company is also conducting extensive preclinical development work to assess the synergistic potential of trilaciclib with a variety of new anti-cancer mechanisms.

The Company also has an Investigator Initiated Studies (“ISS”) program. An ISS is a study that is developed and conducted by a qualified physician external to the Company who assumes full responsibility for the conduct of the study. The Company supports investigator sponsored studies that align with its areas of scientific interest. In the fourth quarter of 2022, the Company announced that it was supporting a new Phase 2 investigator initiated study (ISS) of trilaciclib and lurbinectedin in patients with ES-SCLC. This is a prospective, non-randomized, single-arm Phase 2 study, to evaluate trilaciclib administered intravenously prior to lurbinectedin in approximately 30 subjects with platinum refractory ES-SCLC. The primary endpoint is the rate of grade 4 neutropenia in any cycle. Secondary endpoints include mean duration (days) of grade 4 neutropenia in cycle 1, overall survival (OS), progression-free survival (PFS), overall rate of response (ORR), quality of life assessments, and the use of secondary/reactive supportive measures including G-CSF administration.

The Company out-licensed global rights to lerociclib, an internally discovered and differentiated oral CDK4/6 inhibitor designed to enable more effective combination treatment strategies across multiple oncology indications. In addition, the company out-licensed global rights to an internally discovered CDK2 inhibitor for all human and veterinary uses. The Company also has intellectual property focused on cyclin-dependent kinase targets.

Trilaciclib

The Company's lead compound, COSELA® (trilaciclib), is a first-in-class therapy approved to help protect hematopoietic stem and progenitor cells ("HSPCs") in bone marrow against chemotherapy-induced myelosuppression by transiently inhibiting CDK4/6 in patients with extensive-stage small cell lung cancer ("ES-SCLC"). This action leads to temporary arrest of susceptible host cells during chemotherapy. This reduces the duration and severity of neutropenia and other myelosuppressive consequences of chemotherapy.

Trilaciclib was developed from a technology platform that targets key cellular pathways including transient arrest of the cell cycle at the G1 phase, prior to the beginning of DNA replication. Controlled administration and clean G1 arrest from transient CDK4/6 inhibition can protect bone marrow and reduce hematologic adverse events ("AEs") caused by cytotoxic therapy and may increase the ability to receive longer treatment durations. Transient CDK4/6 inhibition also may improve survival in combination with leading and emerging treatments through myeloprotection, enabling increased cytotoxic exposure while protecting the immune system, and/or through immunomodulation, which may improve patients' overall anti-tumor immune responses. The Company is exploring the use of trilaciclib in a variety of trials across multiple tumor types and treatment combinations to optimize these potential benefits of proactive multi-lineage myeloprotection and survival in combination with leading and emerging treatments for patients globally.

On February 12, 2021, COSELA (trilaciclib) for injection was approved by the U.S. Food and Drug Administration ("FDA") to decrease the incidence of chemotherapy-induced myelosuppression in adult patients when administered prior to a platinum/etoposide-containing regimen or topotecan-containing regimen for ES-SCLC. On March 2, 2021, COSELA became commercially available through the Company's specialty distributor network. COSELA is administered intravenously as a 30-minute infusion completed within four (4) hours prior to the start of chemotherapy and is the first FDA-approved therapy to provide proactive, multilineage protection from chemotherapy-induced myelosuppression. The approval of COSELA is based on data from three (3) randomized, placebo-controlled trials that showed patients receiving COSELA prior to chemotherapy had clinically meaningful and statistically significant reduction in the duration and severity of neutropenia, reduction of red blood cell transfusions, as well as improvements in other myeloprotection measures, compared to patients receiving chemotherapy without COSELA. The Company announced on March 25, 2021 that COSELA had been included in two updated National Comprehensive Cancer Network® ("NCCN") Clinical Practice Guidelines in Oncology (NCCN Guidelines®): The Treatment Guidelines for Small Cell Lung Cancer and the Supportive Care Guidelines for Hematopoietic Growth Factors. These guidelines document evidence-based, consensus-driven management to ensure that all patients receive preventive, diagnostic, treatment, and supportive services that are most likely to lead to optimal outcomes. On October 1, 2021, the Company announced that the permanent J-code for COSELA that was issued in July 2021 by the Centers for Medicare & Medicaid Services (CMS) is now effective for provider billing for all sites of care. All hospital outpatient departments, ambulatory surgery centers and physician offices in the United States have one consistent Healthcare Common Procedure Coding System (HCPCS) code to standardize the submission and payment of COSELA insurance claims across Medicare, Medicare Advantage, Medicaid and commercial plans. G1's new technology add-on payment (NTAP) for COSELA which provides additional payment to inpatient hospitals above the standard Medicare Severity Diagnosis-Related Group (MS-DRG) payment amount also became effective for provider billing on October 1, 2021.

In June 2020, the Company entered into a three-year co-promotion agreement for COSELA in the United States and Puerto Rico with Boehringer Ingelheim Pharmaceuticals, Inc. ("BI"). In December 2021, the Company and BI mutually agreed to end the co-promotion agreement for COSELA, effective March 2022. At that time, the Company announced that it would hire and deploy its own oncology sales team to allow the Company to target all accounts to accelerate sales activities and help maximize the adoption of COSELA. As of February 21, 2022, all sales representatives have been hired, trained and deployed.

In August 2020, the Company entered into an exclusive license agreement with Nanjing Simcere Dongyuan Pharmaceutical Co., Ltd ("Simcere") for development and commercialization rights for trilaciclib in all indications in Greater China (mainland China, Hong Kong, Macau and Taiwan). Under the terms of the agreement, the Company received an upfront payment of \$14.0 million in September 2020 and will be eligible to receive up to \$156.0 million in development and commercial milestone payments. During the twelve months ended December 31, 2022, the Company received two development milestone payments totaling \$14.0 million. Simcere will also pay the Company tiered low double-digit royalties on annual net sales of trilaciclib in Greater China. As part of this agreement, Simcere will participate in global clinical trials of trilaciclib and the companies will be responsible for all development and commercialization costs in their respective territories. On February 9, 2023, Simcere and G1 announced the issuance of the first prescription for COSELA® (trilaciclib) in China.

The Company is evaluating the potential benefits of trilaciclib to patients with other tumors and to continuously develop new data with trilaciclib in a variety of chemotherapeutic settings and in combination with other agents to maximize the applicability of the drug to potential future treatment paradigms.

Development Pipeline

Trilaciclib is a first-in-class therapy designed to help protect against chemotherapy-induced myelosuppression. Trilaciclib, a novel transient IV CDK4/6 inhibitor has unique attributes including rapid onset from IV administration, potent and selective CDK4 and CDK6 inhibition and a short half-life. Controlled administration and clean G1-phase arrest reduce hematologic adverse events caused by cytotoxic therapy and may increase patients' abilities to receive longer treatment durations. Transient CDK4/6 inhibition also modulates multiple immune functions ("immunomodulation") while allowing beneficial T cell proliferation which may improve patients' anti-tumor immune responses.

Trilaciclib transiently blocks progression through the cell cycle. This provides benefits which manifest depending on the tumor type and therapeutic backbone, including: (1) proactive multi-lineage myeloprotection to protect the bone marrow from cytotoxic damage, and (2) potentially improved survival in combination with leading and emerging treatments.

The Company is pursuing trilaciclib across key growth platforms. First, trilaciclib provides proactive multi-lineage myeloprotection by transiently arresting hematopoietic stem and progenitor cells ("HSPCs"), helping to protect them from damage caused by cytotoxic therapy thereby minimizing cytopenias across neutrophils, erythrocytes, and platelets. These proactive multi-lineage myeloprotection benefits were seen in the Company's three Phase 2 double-blind, placebo-controlled clinical trials in ES-SCLC, where highly myelosuppressive chemotherapy regimens are administered multiple days in a row. This myeloprotection benefit was initially explored in clinical trials in extensive stage small cell lung cancer, leading to the approval of trilaciclib in that tumor type when administered prior to platinum/etoposide-containing or topotecan-containing chemotherapy regimens. In addition, these multilineage myeloprotection benefits were seen in the initial Phase 2 trial of trilaciclib in combination with the antibody-drug conjugate, sacituzumab govitecan-hziy in patients with unresectable locally advanced or metastatic triple-negative breast cancer (TNBC). Initial data on the first 18 patients showed a clinically meaningful on-target effect of trilaciclib to reduce (>50%) the rates of multiple adverse events compared to the previously published sacituzumab govitecan-hziy single agent safety profile from the ASCENT trial, including myelosuppression (neutropenia, anemia, thrombocytopenia).

Second, trilaciclib has the potential to improve survival in combination with leading and emerging treatments, as a result of (1) myeloprotection, thus enabling increased cytotoxic exposure while protecting the immune system, and/or (2) immunomodulation, thus improving overall immune response. Its ability to enhance the cancer immune cycle occurs through multiple factors, including (1) enhancing T cell activation (via increased antigen presentation and secretion of IL-2 and IFN γ), (2) favorably altering the tumor microenvironment (via increased chemokines responsible for trafficking T cells to tumors and reducing the number and function of immunosuppressive cell populations), and (3) improving long-term immune surveillance (via increased generation of memory CD8 $^{+}$ T cells). The Company is exploring this potential survival benefit in a variety of ongoing Phase 2 and Phase 3 clinical trials. A meaningful anti-tumor efficacy benefit was observed in the Company's Phase 2 mTNBC study in which trilaciclib led to a significant improvement in overall survival (OS) when administered in combination with chemotherapy (gemcitabine/carboplatin) compared to chemotherapy alone. These are the foundational data for the Company's ongoing PRESERVE 2 pivotal Phase 3 trial in 1L mTNBC.

The Company is executing on its strategy to evaluate the potential benefits of trilaciclib to patients with other tumors to continuously develop new data with trilaciclib in a variety of chemotherapeutic settings and in combination with other agents to maximize the applicability of the drug to potential future treatment paradigms. The Company currently has four ongoing clinical trials: a pivotal Phase 3 trial in 1L mTNBC, a Phase 2 trial in combination with an antibody-drug conjugate ("ADC") in 2L/3L mTNBC, a Phase 2 trial in neoadjuvant TNBC designed to validate trilaciclib's immune-based mechanism of action ("MOA"), and a Phase 2 trial in 1L bladder cancer with chemotherapy induction and a checkpoint inhibitor maintenance. These studies across treatment settings and tumor types will evaluate trilaciclib's benefits of proactive multi-lineage myeloprotection and survival in combination with leading and emerging treatments via myeloprotection and/or immunomodulation. In addition, the MOA and ADC Phase 2 trials will inform the design of future additional pivotal studies across multiple tumor types and treatment combinations. The Company is also conducting significant preclinical work to assess the additive/synergistic potential of trilaciclib with a variety of novel and emerging therapeutic agents to identify synergies to evaluate in future clinical trials. The Company's overall development approach includes monitoring and anticipating the evolving future standards of care across tumor types in order to design or support studies that generate important data for trilaciclib across relevant future treatment settings and maximize future usage.

On February 13, 2023, the Company announced top line results from its pivotal Phase 3 PRESERVE 1 trial showing that the trial achieved its co-primary endpoints related to severe neutropenia with statistical significance, including clinically meaningful and statistically significant reductions in both occurrence of severe neutropenia during induction and mean duration of severe neutropenia in Cycles 1 through 4. However, despite the achievement of the co-primary endpoints and other secondary measures of myeloprotection and tolerability, early anti-tumor efficacy data, including overall response rate (ORR), favor patients receiving placebo compared to trilaciclib. Given the differential in these anti-tumor efficacy metrics and the low likelihood of achieving the progression-free survival (PFS) and overall survival (OS) endpoints, the Company has made the decision to discontinue PRESERVE 1.

2. Basis of Presentation and Summary of Significant Accounting Policies

Basis of Presentation

The Company has prepared the accompanying financial statements in conformity with generally accepted accounting principles in the United States of America ("U.S. GAAP").

The Company has experienced net losses since its inception and has an accumulated deficit of \$732.0 million and \$584.5 million as of December 31, 2022 and December 31, 2021, respectively. The Company expects to incur losses and have negative net cash flows from operating activities as it executes on its strategy including engaging in further research and development activities, particularly conducting non-clinical studies and clinical trials. The success of the Company depends on the ability to successfully commercialize its technologies to support its operations and strategic plan. As of the date of issuance of these financial statements, the Company expects that its cash and cash equivalents and marketable securities as of December 31, 2022 will not be sufficient to fund the Company's planned operations and remain in compliance with its financial covenants for the next 12 months from the date of issuance of these financial statements. Based on the foregoing, the Company has concluded that substantial doubt exists about the Company's ability to continue as a going concern for a period of at least 12 months from the date of issuance of these financial statements. Until such time, if ever, as the Company can generate substantial revenues, the Company expects to finance its cash needs through a combination of equity offerings, debt financings, other third-party funding, marketing and distribution arrangements and other collaborations, strategic alliances and licensing arrangements. There can be no assurances that the Company will be able to secure such additional financing if at all, or on terms that are satisfactory to the Company, and that it will be sufficient to meet its needs. In the event the Company is not successful in obtaining sufficient funding, this could force it to delay, limit, or reduce its product development, commercialization efforts or other operations, and could result in the default on the Company's loan payable. The Company's financial statements have been prepared assuming that the Company will continue as a going concern, which contemplates the realization of assets and the settlement of liabilities and commitments in the normal course of business. The financial statements do not include any adjustments relating to the recoverability and classification of recorded asset amounts or the amounts and classification of liabilities that might result from the outcome of the uncertainties described above.

In connection with the Loan Payable described in Note 8, the Company is required to remain in compliance with a minimum cash covenant and a minimum monthly net product revenue covenant (determined in accordance with U.S. GAAP), measured on a trailing six-month basis. The lender also has the ability to call debt based on a material adverse change clause, which is subjectively defined. If the Company is not in compliance with the monthly net revenue covenants, the minimum cash covenant, or the subjective acceleration clauses are triggered under the agreement, then the lender may call the debt resulting in the Company immediately needing additional funds. As of December 31, 2022, the Company was in compliance with all covenants.

As described in Note 16, on February 22, 2023, the Company approved a reduction in its workforce to streamline operations and reduce operating expenses. The Company estimates that it will recognize \$1.4 million in severance and termination-related costs in the first quarter of 2023.

Use of Estimates

The preparation of financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the amounts reported in the financial statements and the accompanying notes. On an ongoing basis, the Company's management evaluates its estimates which include, but are not limited to, estimates related to accrued expenses, accrued external clinical costs, net product sales, common stock valuation, stock-based compensation expense and deferred tax asset valuation allowance. Actual results could differ from those estimates.

Cash and Cash Equivalents

The Company considers all highly liquid investments purchased with an original maturity of three months or less at the date of purchase to be cash equivalents. Cash and cash equivalents at December 31, 2022 and 2021 consist of amounts on deposit in banks, including checking accounts, money market accounts and certificates of deposit. Cash deposits are all in financial institutions in the United States. As part of the lease for the office space which commenced on September 2, 2019, the Company obtained a standby letter of credit in the amount of \$0.5 million related to the security deposit. This letter of credit is secured by money market funds at the financial institution. Therefore, these funds are classified as restricted cash on the balance sheet. The letter of credit will be reduced ratably on each anniversary of the commencement of the lease until the end of the lease term. As of December 31, 2022, restricted cash totaled \$0.3 million. See Note 7 for further discussion on this transaction.

Marketable Securities

The Company determines the appropriate classification of marketable securities at the time of purchase and reevaluates such designation at each balance sheet date. The Company classified all of its marketable securities at December 31, 2022 as “available-for-sale” pursuant to ASC Topic 320, Investments – Debt and Equity Securities. Investments not classified as cash equivalents are presented as either short-term or long-term investments based on both their maturities as well as the time period the Company intends to hold such securities. Available-for-sale securities are maintained by an investment manager and primarily consist of fixed income securities. Available-for-sale securities are carried at fair value. Any premium or discount arising at purchase is amortized or accreted to interest income over the life of the instrument. Realized gains and losses are determined using the specific identification method and are included in other (income) expense, net. As of December 31, 2022 the unrealized gains and losses are not considered to be material.

Accounts Receivable

The Company’s accounts receivable consists of amounts due from specialty distributors in the U.S. (collectively, its “Customers”) related to sales of COSELA and have standard payment terms. Trade receivables are recorded net of the estimated variable consideration for chargebacks based on contractual terms and the Company’s expectation regarding the utilization and earnings of the chargebacks and discounts as well as the net amount expected to be collected from the Company’s customers. Estimates of the Company’s credit losses are determined based on existing contractual payment terms, individual customer circumstances, and any changes to the economic environment.

In addition, the Company’s accounts receivable consists of open invoices issued to its license partners for services rendered by the Company or receivables with its license partners for invoices related to milestones that were completed and recognized as revenue. The Company also has unbilled accounts receivable related to clinical trial reimbursements where the Company has the right to invoice the license partner and accordingly has recognized revenue. Invoicing to the license partner will occur once the Company has been invoiced by the service provider. As of December 31, 2022, unbilled accounts receivable totaled \$2.3 million.

Inventories

Inventories are stated at the lower of cost or net realizable value and recognized on a weighted-average cost method. The Company uses actual cost to determine the cost basis for inventory. Inventory is capitalized based on when future economic benefit is expected to be realized. Due to the nature of the Company’s supply chain process, inventory that is owned by the Company, is physically stored at third-party warehouses, logistics providers, and contract manufacturers. The Company began capitalizing inventory upon receiving FDA approval for COSELA on February 12, 2021. Prior to FDA approval of COSELA, expenses associated with the manufacturing of the Company’s products were recorded as research and development expense.

Inventory valuation is established based on a number of factors including, but not limited to, finished goods not meeting product specifications, product excess and obsolescence, or application of the lower of cost or net realizable value concepts. The determination of events requiring the establishment of inventory valuation, together with the calculation of the amount of such adjustments may require judgment. The Company analyzes its inventory levels on a periodic basis to determine if any inventory is at risk for expiration prior to sale or has a cost basis that is greater than its estimated future net realizable value. Any adjustments are recognized through cost of sales in the period in which they are incurred. No inventory valuation adjustments have been recorded for any periods presented.

Property and Equipment

Property and equipment are stated at cost less accumulated depreciation. Depreciation is generally calculated using the straight-line method over the following estimated useful lives:

Computer equipment	5 years
Laboratory equipment	5 years
Manufacturing equipment	5 years
Furniture and fixtures	7 years
Leasehold improvements	7 years

Costs associated with maintenance and repairs are charged to expense as incurred. Property and equipment held under leasehold improvements are amortized over the shorter of the lease term or the estimated useful life of the related asset.

Impairment of Long-lived Assets

The Company evaluates its long-lived assets for indicators of possible impairment by comparison of the carrying amounts to future net undiscounted cash flows expected to be generated by such assets when events or changes in circumstances indicate the carrying amount of an asset may not be recoverable. Should an impairment exist, the impairment loss would be measured based on the excess carrying value of the asset over the asset's fair value based on discounted estimates of future cash flows. For the years ended December 31, 2022, 2021 and 2020, the Company's management evaluated its long-lived assets and determined no impairment charge was needed.

Debt

The Company classifies its loan payable in current or long-term liabilities based on the timing of scheduled principal payments. The loan and security agreement (the "Loan Agreement") with Hercules Capital contains events of default, including a material adverse change, which is subjectively defined, in the Company's business, payment defaults, and breaches of covenants following any applicable cure period. In the event of default by the Company under the Loan Agreement, the Company may be required to repay all amounts then outstanding under the Loan Agreement. The Company has determined that subjective acceleration under the material adverse events clause included in the Loan Agreement is not probable and, therefore, has classified the outstanding principal amount in long-term liabilities based on the timing of scheduled principal payments.

Revenue Recognition

For elements of those arrangements that the Company determines should be accounted for under ASC 606, *Revenue from Contracts with Customers* ("ASC 606"), the Company assesses which activities in its license or collaboration agreements are performance obligations that should be accounted for separately and determines the transaction price of the arrangement, which includes the assessment of the probability of achievement of future milestones and other potential consideration. For arrangements that include multiple performance obligations, such as granting a license or performing manufacturing or research and development activities, the Company allocates the transaction price based on the relative standalone selling price and recognizes revenue that is allocated to the respective performance obligation when (or as) control is transferred to the customer and the performance obligation is satisfied. Accordingly, the Company develops assumptions that require judgment to determine the standalone selling price for each performance obligation identified in the contract. These key assumptions may include revenue forecasts, clinical development timelines and costs, discount rates and probabilities of clinical and regulatory success.

License Revenue

Licenses of Intellectual Property

If a license to the Company's intellectual property is determined to be distinct from the other performance obligations identified in the arrangement, the Company recognizes revenue allocated to the license when the license is transferred to the customer and the customer is able to use and benefit from the license. For licenses that are bundled with other promises, the Company utilizes judgment to assess the nature of the combined performance obligation to determine whether the combined performance obligation is satisfied over time or at a point in time and, if over time, the appropriate method of measuring progress for purposes of recognizing revenue associated with the bundled performance obligation. The Company evaluates the measure of progress each reporting period and, if necessary, adjusts the measure of progress and related revenue recognition.

Milestone Payments

At the inception of each arrangement that includes developmental and regulatory milestone payments, the Company evaluates whether the achievement of each milestone specifically relates to the Company's efforts to satisfy a performance obligation or transfer a distinct good or service within a performance obligation. The Company evaluates each milestone to determine when and how much of the milestone to include in the transaction price. The Company first estimates the amount of the milestone payment that the Company could receive using either the expected value or the most likely amount approach. The Company primarily uses the most likely amount approach as that approach is generally most predictive for milestone payments with a binary outcome. Then, the Company considers whether any portion of that estimated amount is subject to the variable consideration constraint (that is, whether it is probable that a significant reversal of cumulative revenue would not occur upon resolution of the uncertainty). The Company updates the estimate of variable consideration included in the transaction price at each reporting date which includes updating the assessment of the likely amount of consideration and the application of the constraint to reflect current facts and circumstances. For regulatory milestones, the Company recognizes revenue at a point in time upon approval, as that is when achievement of the milestone is considered probable. The Company assesses milestones as they are achieved to determine whether they are tied to any other performance obligations in the respective license agreements.

Royalties

For arrangements that include sales-based royalties, including milestone payments based on the level of sales, and the license is deemed to be the predominant item to which the royalties relate, the Company will recognize revenue at the later of (i) when the related sales occur, or (ii) when the performance obligation to which some or all of the royalty has been allocated has been satisfied (or partially satisfied). To date, the Company has not recognized any revenue related to sales-based royalties or milestone payments based on the level of sales.

Product Sales, Net

The Company sells COSELA to specialty distributors in the U.S. and, in accordance with ASC 606, recognizes revenue at the point in time when the customer is deemed to have obtained control of the product. The customer is deemed to have obtained control of the product at the time of physical receipt of the product at the customers' distribution facilities, or Free on Board ("FOB") destination, the terms of which are designated in the contract.

Product sales are recorded at the net selling price, which includes estimates of variable consideration for which reserves are established for (a) rebates and chargebacks, (b) co-pay assistance programs, (c) distribution fees, (d) product returns, and (e) other discounts. Where appropriate, these estimates take into consideration a range of possible outcomes which are probability-weighted for relevant factors such as current contractual and statutory requirements, and forecasted customer buying and payment patterns. Overall, these reserves reflect the Company's best estimates of the amount of consideration to which it is entitled based on the terms of the applicable contract. The amount of variable consideration may be constrained and is included in the net sales price only to the extent that it is probable that a significant reversal in the amount of the cumulative revenue recognized will not occur in a future period. Actual amounts of consideration ultimately received may differ from the Company's estimates. If actual results in the future vary from estimates, the Company adjusts these estimates, which would affect net product revenue and earnings in the period such variances become known.

Liabilities related to co-pay assistance, rebates, and GPO fees are classified as "Accrued Expenses" in the Balance Sheets. Discounts such as chargebacks, returns, and specialty distributor fees are recorded as a reduction to trade accounts receivable, which is included in "Accounts Receivable" in the Balance Sheets.

Forms of Variable Consideration

Rebates and Chargebacks: The Company estimates reductions to product sales for Public Health Service Institutions, such as Medicaid, Medicare and Veterans Administration (“VA”) programs, as well as certain other qualifying federal and state government programs, and other group purchasing organizations. The Company estimates these reductions based upon the Company’s contracts with government agencies and other organizations, statutorily defined discounts and estimated payor mix. These organizations purchase directly from the Company’s specialty distributors at a discount and the specialty distributors charge the Company back the difference between the wholesaler price and the discounted price. The Company’s liability for Medicaid rebates consists of estimates for claims that a state will make. The Company’s reserve for this discounted pricing is based on expected sales to qualified healthcare providers and the chargebacks that customers have already claimed.

Co-pay assistance: Eligible patients who have commercial insurance may receive assistance from the Company to reduce the patient’s out of pocket costs. Liabilities for co-pay assistance are calculated by actual program participation from third-party administrators.

Distribution Fees: The Company has written contracts with its customers that include terms for distribution fees and costs for inventory management. The Company estimates and records distribution fees due to its customers based on gross sales.

Product Returns: The Company generally offers a right of return based on the product’s expiration date and certain spoilage and damaged instances. The Company estimates the amount of product sales that may be returned and records the estimate as a reduction of product sales in the period the related product sales are recognized. The Company’s estimates for expected returns are based primarily on an ongoing analysis of sales information and visibility into the inventory remaining in the distribution channel.

Concentration of Credit Risk

Financial instruments that potentially subject the Company to credit risk consist of cash and cash equivalents. Deposits with financial institutions are insured, up to certain limits, by the Federal Deposit Insurance Corporation (“FDIC”). The Company’s cash deposits often exceed the FDIC insurance limit; however, all deposits are maintained with high credit quality institutions and the Company has not experienced any losses in such accounts. The financial condition of financial institutions is periodically reassessed, and the Company believes the risk of any loss is minimal. The Company believes the risk of any loss on cash due to credit risk is minimal.

Cost of Goods Sold

Cost of goods sold includes direct and indirect costs related to the manufacturing and distribution of COSELA, including third-party manufacturing costs, packaging services, freight-in, third-party logistics costs associated with COSELA, and Company personnel costs. Cost of goods sold may also include period costs related to certain inventory manufacturing services and inventory adjustment charges. In connection with the FDA approval of COSELA on February 12, 2021, the Company subsequently began capitalizing inventory manufactured or purchased after this date. As a result, certain manufacturing costs associated with product shipments of COSELA were expensed prior to FDA approval and, therefore, are not included in cost of goods sold during the current period.

Research and Development

Research and development expenses consist of costs incurred to further the Company’s research and development activities and include salaries and related employee benefits, manufacturing of pharmaceutical active ingredients and drug products, costs associated with clinical trials, nonclinical activities, regulatory activities, research-related overhead expenses and fees paid to expert consultants, external service providers and contract research organizations which conduct certain research and development activities on behalf of the Company. Costs incurred in the research and development of products are charged to research and development expense as incurred.

Each reporting period, management estimated and accrued research and development expenses, including external clinical study costs associated with clinical trial activities. The process of estimating and accruing expenses involved reviewing contracts and purchase orders, identifying services that have been provided on the Company’s behalf, and estimating the level of service performed and the associated cost incurred for the service when the Company has not yet been invoiced or otherwise notified of the actual costs.

Costs for clinical trial activities were estimated based on an evaluation of vendors' progress towards completion of specific tasks, using data such as patient enrollment, clinical site activations or information provided by vendors regarding their actual costs incurred. Payments for these activities are based on the terms of individual contracts and payment timing may differ significantly from the period in which the services were performed. The Company determines accrual estimates through reports from and discussions with applicable personnel and outside service providers as to the progress or state of completion of trials, or the services completed. The estimates of accrued external clinical study costs as of each balance sheet date are based on the facts and circumstances known at the time.

Fair value of Financial Instruments

The Company provides disclosure of financial assets and financial liabilities that are carried at fair value based on the price that would be received upon sale of an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. Fair value measurements may be classified based on the amount of subjectivity associated with the inputs to fair valuation of these assets and liabilities using the following three levels:

- Level 1 Inputs are unadjusted quoted prices in active markets for identical assets or liabilities that the Company has the ability to access at the measurement date.
- Level 2 Inputs include quoted prices for similar assets and liabilities in active markets, quoted prices for identical or similar assets or liabilities in markets that are not active, inputs other than quoted prices that are observable for the asset or liability and inputs that are derived principally from or corroborated by observable market data by correlation or other means.
- Level 3 Unobservable inputs that reflect the Company's estimates of the assumptions that market participants would use in pricing the asset or liability. The Company develops these inputs based on the best information available, including its own data.

The carrying amounts of cash, cash equivalents, accounts payable and accrued liabilities approximate fair value because of their short-term nature.

At December 31, 2022 and 2021 these financial instruments and respective fair values have been classified as follows (in thousands):

	Quoted prices in active markets for identical assets (Level 1)	Significant other observable inputs (Level 2)	Significant other unobservable inputs (Level 3)	Balance at December 31, 2022
Assets:				
Money market funds	\$ 84,167	\$ —	\$ —	\$ 84,167
Marketable securities:				
U.S. Treasury Bills	\$ 50,476	\$ —	\$ —	\$ 50,476
Total assets at fair value	\$ 134,643	\$ —	\$ —	\$ 134,643

	Quoted prices in active markets for identical assets (Level 1)	Significant other observable inputs (Level 2)	Significant other unobservable inputs (Level 3)	Balance at December 31, 2021
Assets				
Money market funds	\$ 110,443	\$ —	\$ —	\$ 110,443
Marketable securities:				
U.S. Treasury Bills	\$ —	\$ —	\$ —	\$ —
Total assets at fair value	\$ 110,443	\$ —	\$ —	\$ 110,443

During the twelve months ended December 31, 2022 and December 31, 2021, there were no changes in valuation methodology.

The Loan Payable (discussed in Note 8), which is classified as a Level 3 liability, has a variable interest rate and the carrying value approximates its fair value. As of December 31, 2022, the carrying value was \$77.0 million.

Patent Costs

Costs associated with the submission of patent applications are expensed as incurred given the uncertainty of the future economic benefits of the patents. Patent-related legal expenses included in selling, general and administrative costs were approximately \$1.8 million, \$1.9 million, and \$2.8 million for the years ended December 31, 2022, 2021 and 2020, respectively.

Income Taxes

Income taxes are accounted for using the asset and liability method. Deferred tax assets and liabilities are recognized for the future tax consequences attributable to temporary differences between the financial statements carrying amounts of assets and liabilities and their respective tax bases, operating loss carryforwards, and tax credit carryforwards. Deferred tax assets and liabilities are measured using enacted tax rates expected to apply to taxable income in the years in which those temporary differences are expected to be recovered or settled. The effect on deferred tax assets and liabilities of a change in tax rates is recognized in income in the period that includes the enactment date.

In accordance with Financial Accounting Standards Board (FASB) Accounting Standards Codification (ASC) 740, *Accounting for Income Taxes*, the Company reflects in the financial statements the benefit of positions taken in a previously filed tax return or expected to be taken in a future tax return only when it is considered 'more-likely-than-not' that the position taken will be sustained by a taxing authority. As of December 31, 2022 and 2021, the Company had no unrecognized income tax benefits and correspondingly there is no impact on the Company's effective income tax rate associated with these items. The Company's policy for recording interest and penalties relating to uncertain income tax positions is to record them as a component of income tax expense in the accompanying statements of operations. As of December 31, 2022 and 2021, the Company had no such accruals.

Stock-Based Compensation

The primary type of stock-based payments utilized by the Company are stock options. The Company accounts for stock-based employee compensation arrangements by measuring the cost of employee services received in exchange for all equity awards granted based on the fair value of the award on the grant date. The fair value of each employee stock option is estimated on the date of grant using an options pricing model. The Company currently uses the Black-Scholes valuation model to estimate the fair value of its share-based payments. The model requires management to make a number of assumptions including expected volatility, expected life, risk-free interest rate and expected dividends.

The Company also incurs stock-based compensation expense related to restricted stock units ("RSUs") granted to employees. The fair value of RSUs is determined by the closing market price of the Company's common stock on the date of grant and then recognized over the requisite service period of the award.

Segment Information

The Company manages its operations as a single segment for the purposes of assessing performance and making operating decisions. All of the Company's assets are held in the United States.

Comprehensive Loss

Comprehensive loss includes net loss as well as other changes in stockholders' equity (deficit) that result from transactions and economic events other than those with stockholders. There was no difference between net loss and comprehensive loss for each of the periods presented in the accompanying financial statements.

Leases

The Company determines if an arrangement is a lease at inception. Operating lease assets represent the Company's right to use an underlying asset for the lease term and lease liabilities represent the Company's obligation to make lease payments arising from the lease. Operating leases are included in operating lease assets, other current liabilities, and operating lease liabilities on the Company's balance sheet at December 31, 2022. Operating lease assets and operating lease liabilities are recognized based on the present value of the future minimum lease payments over the lease term at commencement date. As most of the Company's leases do not provide an implicit rate, the Company uses its incremental borrowing rate based on the information available at commencement date to determine the present value of future payments. The Company's lease terms may include options to extend or terminate the lease when it is reasonably certain that it will exercise that option. Lease expense for minimum lease payments is recognized on a straight-line basis over the lease term.

Debt Issuance Costs

Debt issuance costs are amortized to interest expense over the estimated life of the related debt based on the effective interest method. In accordance with ASC 835, Interest, the Company presents debt issuance costs on the balance sheet as a direct deduction from the associated debt.

3. Inventories

Inventories consists of the following (in thousands):

	December 31, 2022	December 31, 2021
Raw materials	\$ 2,790	\$ 2,105
Work in process	10,153	1,342
Finished goods	3,236	24
Inventories	<u>\$ 16,179</u>	<u>\$ 3,471</u>

The Company uses third party contract manufacturing organizations for the production of its raw materials, active pharmaceutical ingredients, and finished drug product which the Company owns. Costs incurred by the Company for manufacturing of initial commercial product of COSELA in preparation of commercial launch were expensed prior to FDA approval.

4. Property and Equipment

Property and equipment consists of the following (in thousands):

	December 31, 2022	December 31, 2021
Computer equipment	\$ 327	\$ 327
Laboratory equipment	334	334
Furniture and fixtures	866	866
Leasehold improvements	1,782	1,782
Manufacturing equipment	506	—
Accumulated depreciation	(1,826)	(1,296)
Property and equipment, net	<u>\$ 1,989</u>	<u>\$ 2,013</u>

Depreciation expenses relating to property and equipment were \$530 thousand, \$469 thousand, and \$582 thousand for the years ended December 31, 2022, 2021 and 2020, respectively.

5. Patent License Agreement

On November 23, 2016, the Company entered into a license agreement with the Board of Trustees of the University of Illinois (“the University”), which was amended on March 24, 2017. In May 2022, the Company notified the University that it was terminating the license agreement. After completing the evaluation of the Company’s rintodestrant partnering options and recent data in the highly competitive oral SERD space, the Company made the strategic decision to discontinue the program. The Company reverted the rights back to the originator, the University, during the third quarter of 2022; there are no additional financial obligations due to the originator resulting from the reversion.

6. Accrued Expenses

Accrued expenses are comprised as follows (in thousands):

	December 31, 2022	December 31, 2021
Accrued external research	\$ 268	\$ 773
Accrued professional fees and other	4,304	8,058
Accrued external clinical study costs	15,566	9,579
Accrued compensation expense	5,419	4,770
Accrued expenses	<u>\$ 25,557</u>	<u>\$ 23,180</u>

7. Leases

The Company adopted ASC 842 as of January 1, 2019. Prior period amounts have not been adjusted and continue to be reported in accordance with the Company’s historic accounting under ASC 840.

Pursuant to a lease agreement dated January 10, 2014 (the “Lease”), on April 1, 2014, the Company leased office and lab space with a free rent period and escalating rent payments; the Lease had an expiration date of July 31, 2017. The Lease was amended on January 27, 2016 to lease new larger office and lab space beginning in August 2016 with a discounted rent period and escalating rent payments and the Lease term was extended to December 31, 2022. The amendment also contained an option for a five-year renewal and a right of first refusal to lease adjacent office space. The Lease was further amended on March 27, 2017 to lease additional office space beginning in August 2017 with a discounted rent period and escalating rent payments. The Lease was amended again in January 2018 to lease additional adjacent office space beginning in August 2018 with a discounted rent period and escalating rent payments. The term of the renewal option contained in the Lease, as amended, was not included in the measurement of the operating lease asset and liability since exercise of the option was uncertain.

On March 20, 2020, the Lease was amended to surrender three of the office spaces previously entered into above, with a termination date of May 31, 2020 and in consideration of a termination fee to be paid. The lease payments and term for the remaining occupied space will remain the same. Due to these changes in lease terms for the three office spaces, in March 2020 the Company modified the operating lease liabilities and operating lease assets of these three office spaces to reflect the new terms. The Lease term ended on December 31, 2022 and was not renewed.

In November 2018, the Company signed a new lease to secure approximately 60,000 square feet of laboratory and office space at 700 Park Offices Drive in Research Triangle Park, NC (“700 Lease”). The 700 Lease commenced on September 2, 2019 and has an expiration date of September 30, 2027 for the initial term with the Company having the option to renew for an additional 5 years. The term of the renewal option contained in the Lease was not included in the measurement of the operating lease asset and liability since exercise of the option was uncertain. As part of the 700 Lease, the Company obtained a standby letter of credit in the amount of \$0.5 million related to the security deposit. This letter of credit is secured by money market funds at the financial institution. Therefore, these funds are classified as restricted cash on the balance sheet. The letter of credit will be reduced ratably on each anniversary of the commencement of the 700 Lease until the end of the lease term.

The tables below reflect the Company’s lease position and weighted-average lease terms and discount rates for its operating leases as of December 31, 2022. Operating lease liabilities are based on the net present value of the remaining lease payments over the remaining lease term. In determining the present value of lease payments, the Company used its incremental borrowing rate based on the information available at the lease commencement date.

(in thousands)	Classification on the Balance Sheet	December 31, 2022
Assets		
Operating lease assets	Operating lease assets	\$ 5,962
Total lease assets		\$ 5,962

Liabilities		
Current		
Operating	Other current liabilities	\$ 1,135
Non-current		
Operating	Operating lease liabilities	5,615
Total lease liabilities		\$ 6,750

Lease Term and Discount Rate	December 31, 2022
Weighted-average remaining lease term (years)	
Operating leases	4.8
Weighted-average discount rate	
Operating leases	8.0 %

The table below presents information related to the lease costs for operating leases (in thousands):

(in thousands)	Classification	Year Ended December 31,		
		2022	2021	2020
Operating lease costs ¹	Research and development	\$ 618	\$ 799	\$ 955
	Selling, general and administrative	1,048	870	1,191
Total operating lease costs		\$ 1,666	\$ 1,669	\$ 2,146

¹Includes variable lease costs which are immaterial.

The table below reconciles the undiscounted cash flow for each of the first five years and total of the remaining years to the operating lease liabilities recorded on the balance sheet as of December 31, 2022 (in thousands):

Years ending December 31,	Operating leases
2023	\$ 1,634
2024	1,679
2025	1,725
2026	1,773
2027	1,357
Total future minimum lease payments	\$ 8,168
Less: present value adjustment	(1,418)
Total operating lease liabilities	\$ 6,750

Cash payments included in the measurement of the Company's operating leases were \$1,703 thousand for the twelve months ended December 31, 2022.

8. Loan Payable

On May 29, 2020, the Company entered into a loan and security agreement (the "Loan Agreement") with Hercules Capital, Inc. ("Hercules"), under which Hercules agreed to lend the Company up to \$100.0 million, to be made available in a series of tranches, subject to certain terms and conditions. The first tranche totals \$30.0 million, of which the Company received \$20.0 million at closing. Upon initiation of the Phase 3 trial of COSELA for metastatic colorectal cancer and receiving FDA approval for COSELA for small cell lung cancer (the "Performance Milestone"), the second tranche of \$20.0 million became available to the Company for drawdown through December 15, 2021. The third tranche of \$30.0 million was available through December 31, 2022. The fourth tranche of \$20.0 million was available at Hercules' approval through December 31, 2022. On March 31, 2021, the Company entered into the First Amendment to Loan and Security Agreement (the "First Amendment") with Hercules whereby the Company drew the remaining \$10.0 million of the first tranche and the interest rate and financial covenants were amended. Unless loan advances exceeded \$40.0 million, no financial covenants were required.

Amounts borrowed under the Loan Agreement will bear an interest rate equal to the greater of either (i) (a) the prime rate as reported in The Wall Street Journal, plus (b) 6.40%, and (ii) 9.65%. Based on original terms of the Loan Agreement, the Company will make interest only payments through June 1, 2022 and following the interest only period, the Company will repay the principal balance and interest of the advances in equal monthly installments through June 1, 2024. Based on the original terms of the Loan Agreement, upon satisfaction of the Performance Milestone, the interest only period was extended through January 1, 2023 and the maturity date was extended to June 1, 2025. Upon entering into the First Amendment on March 31, 2021, the interest rate was amended to the greater of either (i) (a) the prime rate as reported in The Wall Street Journal, plus (b) 6.20%, and (ii) 9.45%.

The Company may prepay advances under the Loan Agreement, in whole or in part, at any time subject to a prepayment charge equal to (a) 3.0% of the prepayment amount in the first year; (b) 2.0% of the prepayment amount in the second year; and (c) 1.0% of the prepayment amount in the third year.

Upon prepayment or repayment of all or any of the advances under the Loan Agreement, the Company will pay (in addition to the prepayment charge) an end of term charge of 6.95% of the aggregate funded amount. With respect to the first tranche, the end of term charge of \$2.1 million will be payable upon any prepayment or repayment. To the extent that the Company is provided additional advances under the Loan Agreement, the 6.95% end of term charge will be applied to such additional amounts. These amounts have been accrued over the term of the loan using effective-interest method.

On November 1, 2021, the Company entered into a Second Amendment to Loan and Security Agreement (the "Second Amendment") under which Hercules agreed to lend the Company up to \$150.0 million, to be made available in a series of tranches, subject to certain terms and conditions. The first tranche was increased to \$100.0 million. At close of the Second Amendment, the Company borrowed an additional \$45.0 million from the first tranche. The Company had the right to request that Hercules make the remaining \$25.0 million term loan advance under the first tranche to the Company by September 15, 2022, which the Company did not exercise. The second tranche of \$20.0 million will become available to the Company upon achievement of \$50.0 million trailing six-month net product revenue of COSELA no later than June 30, 2023 and will be available through December 15, 2023. The third tranche of \$15.0 million will become available upon achievement of certain development performance milestones and available through December 15, 2023. The fourth tranche of \$15.0 million will be available at Hercules' approval through June 30, 2024.

Amounts borrowed under the Second Amendment will bear an interest rate equal to the greater of either (i) (a) the prime rate as reported in The Wall Street Journal, plus (b) 5.90%, and (ii) 9.15%. The Company will make interest only payments through December 1, 2024 and may be extended through December 1, 2025, in quarterly increments, subject to compliance with covenants of the Second Amendment. Following the interest only period, the Company will repay the principal balance and interest of the advances in equal monthly installments through November 1, 2026.

The Company may prepay advances under the Second Amendment, in whole or in part, at any time subject to a prepayment charge equal to (a) 3.0% of the prepayment amount in the first year from the closing of the Second Amendment; (b) 2.0% of the prepayment amount in the second year from the closing of the Second Amendment; and (c) 1.0% of the prepayment amount in the third year from the closing of the Second Amendment.

Upon prepayment or repayment of all or any of the advances under the Second Amendment, the Company will pay (in addition to the prepayment charge) an end of term charge of 6.75% of the aggregate amount funded. The Company will be required to make a final payment to Hercules in the amount of 6.75% of the amounts funded, less any amount previously paid. In addition, the Company will be required to make a payment to the lender for \$2.1 million on the earliest occurrence of (i) June 1, 2025, (ii) the date the Company repays the outstanding principal amount in full, or (iii) the date that the principal amount becomes due and payable in full.

The Second Amendment is secured by substantially all of the Company's assets, including intellectual property, subject to certain exemptions. The Company out-licensed lerociclib as permitted in the Loan Agreement and the Company may out-license rintodestrant upon approval of the licensing terms by Hercules.

The Second Amendment contains a minimum revenue covenant. Beginning August 15, 2022, with the reporting of the financial results for the second fiscal quarter ended June 30, 2022, and tested monthly, the Company must have achieved net product revenue of COSELA of at least 65% of the amounts projected in the Company's forecast. Testing of the minimum revenue covenant shall be waived at any time in which either (a) the Company's market capitalization exceeds \$750.0 million and the Company maintains unrestricted cash equal to at least 50% of the total amounts funded, or (b) the Company maintains unrestricted cash equal to at least 100% of the total amounts funded.

The Company evaluated the Second Amendment under the guidance found in ASC 470-50 *Modification and Extinguishment*. The Company concluded that the previous debt under the Loan Agreement was extinguished based on the difference in present value of the cash flows of the Loan Agreement and the Second Amendment. Accordingly, the difference between the carrying value of the Loan Agreement as of November 1, 2021, including the unamortized debt issuance costs, and the fair value of the Second Amendment was recorded as a \$0.2 million loss on extinguishment of debt for the twelve months ended December 31, 2021. Fees paid to third parties directly related to the funded portion of the Second Amendment have been capitalized as debt issuance costs and will be amortized to interest expense over the life of the Second Amendment using the effective interest method. Fees paid that were directly related to the unfunded portion is account for as a deferred financing charge and amortized to interest expense over the period the unfunded portions are available. The end of term charges associated with the Second Amendment are being accreted through interest expense using the effective interest method over the related term of the debt.

On June 24, 2022, the Company entered into a Third Amendment to Loan and Security Agreement (the "Third Amendment") with Hercules which extended the time for drawing the remainder of the first tranche advance of up to \$25.0 million from September 15, 2022 to December 31, 2022, which the Company did not exercise. The Third Amendment also added a minimum cash covenant whereby the Company must maintain unrestricted cash equal to at least 50% of the outstanding debt, and such percentage shall decrease upon the Company achieving specified net product revenue of COSELA. It further provides for a minimum revenue covenant that, beginning August 15, 2022 with the reporting of the financial results for the second fiscal quarter ended June 30, 2022, and tested monthly, the Company must have achieved net product revenue of COSELA of at least 80% of the amounts projected in the Company's forecast. Testing of the minimum revenue covenant shall be waived at any time in which either (a) the Company's market capitalization exceeds \$750.0 million and the Company maintains unrestricted cash equal to at least 50% of the total amounts funded, or (b) the Company maintains unrestricted cash equal to at least 100% of the total amounts funded. The Company evaluated the Third Amendment under the guidance found in ASC 470-50 *Modification and Extinguishment*. The Company concluded that the Third Amendment was a modification and there was no impact to the financial statements.

On November 1, 2022, the Company entered into a Fourth Amendment to Loan and Security Agreement (the “Fourth Amendment”) with Hercules which extended the time for drawing the remainder of the first tranche advance of up to \$25.0 million from December 31, 2022 to June 30, 2023. The Fourth Amendment continues to provide for a minimum revenue covenant, tested monthly, where we must achieve net product revenue of COSELA of at least 80% of the amounts projected in our forecast. The Fourth Amendment also amended the minimum cash covenant such that if the outstanding debt is less than or equal to \$75.0 million, the Company must maintain unrestricted cash equal to at least 65% of the outstanding debt in addition to meeting the required revenue covenant. In addition, if the outstanding debt is greater than \$75.0 million, the Company must maintain unrestricted cash equal to at least 70% of the outstanding debt while meeting the revenue covenant. If the Company achieves specified net revenue of COSELA, the cash percentage decreases to 45% of the outstanding debt. Testing of the minimum revenue covenant shall be waived at any time in which either (a) our market capitalization exceeds \$750.0 million and we maintain unrestricted cash equal to at least 50% of the total amounts funded, or (b) we maintain unrestricted cash equal to at least 100% of the total amounts funded. The Fourth Amendment also re-set the prepayment premiums associated with any prepayment of the loans under the Loan and Security Agreement. The Company evaluated the Fourth Amendment under the guidance found in ASC 470-50 *Modification and Extinguishment*. The Company concluded that the Fourth Amendment was a modification and there was no impact to the financial statements.

The Loan Agreement contains events of default, including a material adverse change, which is subjectively defined, in the Company’s business, payment defaults, and breaches of covenants following any applicable cure period. In the event of default by the Company under the Loan Agreement, the Company may be required to repay all amounts then outstanding under the Loan Agreement. The Company has determined that subjective acceleration under the material adverse events clause included in the Loan Agreement is not probable and, therefore, has classified the outstanding principal amount in long-term liabilities based on the timing of scheduled principal payments. As of December 31, 2022 and as of the date of the issuance of these financial statements, the Company was in compliance with all covenants and has not been notified of an event of default by the lender under the Loan Agreement.

As of December 31, 2022 the future principal payments due under the Loan Agreement, excluding interest, are as follows (in thousands):

	Amount
2023	\$ —
2024	2,742
2025	35,287
2026	36,971
Total principal outstanding	\$ 75,000
End of term charge	2,709
Unamortized debt issuance costs	(695)
Total	\$ 77,014

9. Stockholders’ Equity

Common stock

The Company’s common stock has a par value of 0.0001 per share and consists of 120,000,000 authorized shares as of December 31, 2022 and 2021, respectively. Holders of common stock are entitled to one vote per share and are entitled to receive dividends, as if and when declared by the Company’s Board of Directors.

On June 15, 2018, the Company entered into a sales agreement for “at the market offerings” with Cowen and Company, LLC (“Cowen”), which allowed the Company to issue and sell shares of common stock pursuant to a shelf registration statement for total gross sales proceeds of up to \$125.0 million from time to time through Cowen, acting as its agent. Between January 14, 2021 and February 9, 2021, the Company sold 3,513,027 shares of common stock pursuant to this agreement resulting in \$86.4 million in net proceeds. As of February 9, 2021, the Company has used the entirety of the remaining availability under the 2018 sales agreement with Cowen.

On July 2, 2021, the Company filed an automatic shelf registration statement on Form S-3 with the Securities and Exchange Commission (the “SEC”), which became effective upon filing, pursuant to which the Company registered for sale an unlimited amount of any combination of its common stock, preferred stock, debt securities, warrants, rights and/or units from time to time and at prices and on terms that the Company may determine, so long as the Company continued to satisfy the requirements of a “well-known seasoned issuer” under SEC rules (the “2021 Form S-3”).

In connection with the 2021 Form S-3, on July 2, 2021, the Company entered into a sales agreement for “at the market offerings” with Cowen, which allowed the Company to issue and sell shares of common stock pursuant to the 2021 Form S-3 for total gross sales proceeds of up to \$150.0 million from time to time through Cowen, acting as its agent (the “2021 Sales Agreement”). The Company did not sell any shares of common stock under the 2021 Sales Agreement.

Since the Company no longer qualified as a “well-known seasoned issuer” as such term is defined in Rule 405 under the Securities Act of 1933, as amended, at the time of the filing of the Company’s 2021 Form 10-K in February 2022, the Company filed an automatic post-effective amendment to the 2021 Form S-3 on Form POSASR prior to filing of the Company’s 2021 Form 10-K, which became effective upon filing, to register for sale up to \$300.0 million of any combination of its common stock, preferred stock, debt securities, warrants, rights and/or units from time to time and at prices and on terms that the Company may determine and, as required by SEC rules, and another post-effective amendment to the 2021 Form S-3 on Form POS AM after the filing of the Company’s 2021 Form 10-K. The post-effective amendment to the 2021 Form S-3 on Form POS AM was declared effective by the SEC on May 3, 2022 and the 2021 Form S-3 will remain in effect for up to three years from the date it originally became effective, which was July 2, 2021. The 2021 Form S-3 also includes a prospectus covering up to an aggregate of \$100.0 million in common stock that the Company may issue and sell from time to time, through Cowen acting as its sales agent, pursuant to that certain sales agreement that the Company entered into with Cowen on February 23, 2022 (the “2022 Sales Agreement”). In connection with the Company entering into the 2022 Sales Agreement with Cowen, the Company terminated the 2021 Sales Agreement. As of the date hereof, the Company has not sold any shares of common stock or other securities under the 2022 Sales Agreement for “at the market offerings.”

On November 17, 2022, the Company entered into an underwriting agreement related to a public offering of 7,700,000 shares of common stock at a public offering price of \$6.50 per share less the underwriting discounts and commissions, pursuant to the shelf registration statement on Form S-3. The Company received approximately \$50.1 million in gross proceeds from this offering, before deducting underwriting discounts and commissions and offering expenses. The offering closed on November 22, 2022. In addition, 873,353 shares of common stock were issued upon exercise by the underwriters of their option to purchase additional shares at the same offering price, which closed on December 20, 2022. The gross proceeds from the offering of the aggregate of 8,573,353 shares of the Company’s common stock were \$55.7 million and net proceeds of \$52.0 million, after deducting underwriting discounts and commissions and other offering expenses payable by the Company.

Preferred stock

The Company is authorized to issue 5,000,000 shares of undesignated preferred stock in one or more series. As December 31, 2022, no shares of preferred stock were issued or outstanding.

Shares Reserved for Future Issuance

The Company has reserved authorized shares of common stock for future issuance at December 31, 2022 and December 31, 2021 as follows:

	December 31, 2022	December 31, 2021
Common stock options outstanding	7,372,028	6,701,727
RSUs outstanding	675,406	414,991
Options and RSUs available for grant under Equity Incentive Plans	2,323,539	1,771,635
	<u>10,370,973</u>	<u>8,888,353</u>

10. Stock-Based Compensation

2011 Equity Incentive Plan

In March 2011, the Company adopted the 2011 Equity Incentive Plan (the “2011 Plan”). The 2011 Plan provided for the direct award or sale of the Company’s common stock and for the grant of stock options to employees, directors, officers, consultants and advisors of the Company. The 2011 Plan was subsequently amended in August 2012, October 2013, February 2015, December 2015, April 2016 and November 2016 to allow for the issuance of additional shares of common stock. In connection with the adoption of the 2017 Plan (as defined below), the 2011 Plan was terminated and no further awards will be made under the 2011 Plan.

2017 Equity Incentive Plan

In May 2017, the Company adopted the 2017 Equity Incentive Plan (the “2017 Plan”). The 2017 Plan provided for the direct award or sale of the Company’s common stock and for the grant of up to 1,932,000 stock options to employees, directors, officers, consultants and advisors of the Company. The 2017 Plan provides for the grant of incentive stock options, non-statutory stock options or restricted stock. Effective January 1, 2022, and in accordance with the “evergreen” provision of the 2017 plan, an additional 1,096,553 shares were made available for issuance.

Under both the 2011 Plan and the 2017 Plan, options to purchase the Company’s common stock may be granted at a price no less than the fair market value of a share of common stock on the date of grant. The fair value shall be the closing sales price for a share as quoted on any established securities exchange for such grant date or the last preceding date for which such quotation exists. Vesting terms of options issued are determined by the Board of Directors or Compensation Committee of the Board. The Company’s stock options vest based on terms in the stock option agreements. Stock options have a maximum term of ten years.

Beginning in January 2021, the Company began granting Restricted Stock Units (“RSUs”) under the 2017 Plan. RSUs are granted at the fair market value of a share of common stock on the date of grant.

As of December 31, 2022, there were a total of 1,738,639 shares of common stock available for future issuance under the 2017 Plan.

Amended and Restated 2021 Inducement Equity Incentive Plan

In February 2021, the Company adopted the 2021 Inducement Equity Incentive Plan (the “2021 Inducement Plan”). The 2021 Inducement Plan provides for the grant of up to 500,000 non-qualified options, stock grants, and stock-based awards to employees and directors of the Company. The 2021 Inducement Plan does not include an evergreen provision.

In September 2021, the Company adopted the 2021 Sales Force Inducement Equity Incentive Plan (the “2021 Sales Force Inducement Plan”). The 2021 Sales Force Inducement Plan provides for the grant of up to 500,000 non-qualified options, stock grants, and stock-based awards to sales force individuals and support staff that were not previously employees or directors of the Company. The 2021 Sales Force Inducement Plan does not include an evergreen provision.

In March 2022, the Company merged the 2021 Sales Force Inducement Plan into the 2021 Inducement Plan and amended and restated the 2021 Inducement Plan to create the Amended and Restated 2021 Inducement Equity Incentive Plan (the “Amended and Restated 2021 Plan”). In addition, the number of shares reserved for issuance under the Amended and Restated 2021 Plan was increased by 750,000 shares of the Company’s common stock, for an aggregate of 1,750,000 shares of the Company’s common stock authorized to issue under the Amended and Restated 2021 Plan. The Amended and Restated 2021 Plan does not include an evergreen provision.

As of December 31, 2022, there was a total of 584,900 shares of common stock available for future issuance under the Amended and Restated 2021 Plan.

Stock-based Compensation

The Company recognizes compensation costs related to stock options granted to employees based on the estimated fair value of the awards on the date of grant, net of estimated forfeitures. The grant date fair value of the stock-based awards is generally recognized on a straight-line basis over the requisite service period, which is generally the vesting period of the respective awards. Share-based awards granted to non-employee directors as compensation for serving on the Company's Board of Directors are accounted for in the same manner as employee share-based compensation awards.

The Company calculates the fair value of stock options using the Black-Scholes option pricing model. The Black-Scholes option-pricing model requires the use of subjective assumptions, including the expected volatility of the Company's common stock, the assumed dividend yield, the expected term of the Company's stock options and the fair value of the underlying common stock on the date of grant.

The Company also incurs stock-based compensation expense related to RSUs. The fair value of RSUs is determined by the closing market price of the Company's common stock on the date of grant and then recognized over the requisite service period of the award.

The table below summarizes the stock-based compensation expense recognized in the Company's statement of operations by classification (in thousands):

	Year Ended December 31,		
	2022	2021	2020
Cost of goods sold	\$ 207	\$ 252	\$ —
Research and development	3,956	4,811	6,902
Selling, general and administrative	16,426	17,256	11,868
Total stock-based compensation expense	<u>\$ 20,589</u>	<u>\$ 22,319</u>	<u>\$ 18,770</u>

Stock options – Black-Scholes inputs

The fair value of each option grant is estimated on the grant date using the Black-Scholes option-pricing model, using the following weighted average assumptions:

	Year Ended December 31,		
	2022	2021	2020
Expected volatility	76.7% - 81.4%	76.8% - 79.6%	74.8% - 81.0%
Weighted-average risk free rate	1.4% - 4.2%	0.4% - 1.3%	0.3% - 1.7%
Dividend yield	—%	—%	—%
Expected term (in years)	6.00	6.00	6.02
Weighted-average grant-date fair value per share	\$6.50	\$11.93	\$12.17

The expected term of stock options represents the weighted-average period the stock options are expected to remain outstanding and is based on the option vesting term, contractual terms and industry peers as the Company did not have sufficient historical information to develop reasonable expectations about future exercise patterns and post-vesting employment termination behavior.

The expected stock price volatility assumptions for the Company's stock options were determined by examining the historical volatilities for industry peers as the Company does not have sufficient history to estimate volatility using only its common stock. In 2019, the Company began incorporating its historical stock price in conjunction with selected similar publicly traded companies. The Company plans to continue to use the guideline peer group volatility information until the historical volatility of its common stock is sufficient to measure expected volatility for future option grants.

The risk-free interest rate assumption at the date of grant is based on the U.S. Treasury instruments whose term was consistent with the expected term of the Company's stock options.

The expected dividend assumption is based on the Company's history and expectation of dividend payouts.

Stock Option Activity

The following table is a summary of stock option activity during 2022 is as follows:

	Options outstanding	Weighted average exercise price	Weighted average	
			Remaining contractual for life (Years)	Aggregate intrinsic value (in thousands)
Balance as of December 31, 2021	6,701,727	\$ 17.88	7.2	\$ 10,427
Granted	1,759,539	9.62		
Cancelled	(882,630)	19.87		
Exercised	(206,608)	0.75		
Balance as of December 31, 2022	7,372,028	\$ 16.15	6.9	\$ 3,281
Exercisable at December 31, 2022	4,562,674	17.85	5.8	3,248
Vested at December 31, 2022 and expected to vest	7,372,028	16.15	6.9	3,281

As of December 31, 2022, unrecognized compensation expense related to unvested stock options totaled \$22.4 million, which is expected to be recognized over a weighted-average period of approximately 2.2 years.

Prior to the Company's initial public offering, the fair value of the Company's common shares underlying the Company's stock options was estimated on each grant date by the board of directors. In order to determine the fair value of the Company's common shares underlying granted stock options, the board of directors considered, among other things, timely valuations of the Company's common shares prepared by an unrelated third-party valuation firm in accordance with the guidance provided by the American Institute of Certified Public Accountants Practice Guide, Valuation of Privately-Held-Company Equity Securities Issued as Compensation.

Since the IPO, the board of directors has determined the fair value of each common share underlying share-based awards based on the closing price of the common shares as reported by Nasdaq on the date of grant.

Restricted Stock Units

The Company's restricted stock units ("RSUs") are considered nonvested share awards and require no payment from the employee. For each RSU, employees receive one common share at the end of the vesting period. Compensation cost is recorded based on the market price of the Company's common stock on the grant date and is recognized on a straight-line basis over the requisite service period.

The following table is a summary of the RSU activity for the twelve months ended December 31, 2022:

	Number of RSUs	Weighted – Average Fair Value per Share
Balance as of December 31, 2021	414,991	\$ 18.24
Granted	510,831	9.43
Cancelled	(93,091)	12.34
Vested	(157,325)	18.58
Balance as of December 31, 2022	675,406	\$ 12.31

As of December 31, 2022, there was \$5.8 million of total unrecognized compensation cost related to Company RSUs that are expected to vest. These costs are expected to be recognized over a weighted-average period of approximately 2.4 years.

11. License Revenue

Incyclix License Agreement

On May 22, 2020, the Company entered into an exclusive license agreement with Incyclix Bio, LLC (“Incyclix”), formerly ARC Therapeutics, LLC, a company primarily owned by a related party, whereby the Company granted to Incyclix an exclusive, worldwide, royalty-bearing license, with the right to sublicense, solely to make, have made, use, sell, offer for sale, import, export, and commercialize products related to its cyclin dependent kinase 2 (“CDK2”) inhibitor compounds. At close, the Company received consideration in the form of an upfront payment of \$1.0 million and an equity interest in Incyclix equal to 10% of its issued and outstanding units valued at \$1.1 million. In addition, the Company may receive a future development milestone payment totaling \$2.0 million and royalty payments in the mid-single digits based on net sales of the licensed compound after commercialization. The Company has right of first negotiation to re-acquire these assets. In the first quarter of 2022, Incyclix announced a new round of financing which the Company did not participate. Following the financing, the Company’s equity interest is now approximately 6.5%.

The Company assessed the license agreement in accordance with ASC 606 and identified one performance obligation in the contract, which is the transfer of the license, as Incyclix can benefit from the license using its own resources. The Company recognized \$2.1 million in license revenue consisting of the upfront payment and the 10% equity interest in Incyclix upon the effective date as the Company determined the license was a right to use the intellectual property and the Company had provided all necessary information to Incyclix to benefit from the license.

The Company considers the future potential development milestones and sales-based royalties to be variable consideration. The development milestone is excluded from the transaction price because it determined the payment to be fully constrained under ASC 606 due to the inherent uncertainty in the achievement of such milestone due to factors outside of the Company’s control. As sales-based royalties are all related to the license of the intellectual property, the Company will recognize revenue in the period when subsequent sales are made pursuant to the sales-based royalty exception. The Company will re-evaluate the transaction price in each reporting period and as uncertain events are resolved or other changes in circumstances occur.

There was no revenue recognized during the twelve months ended December 31, 2022.

Genor License Agreement

On June 15, 2020, the Company entered into an exclusive license agreement with Genor Biopharma Co. Inc. (“Genor”) for the development and commercialization of lerociclib in the Asia-Pacific region, excluding Japan (the “Genor Territory”). Under the license agreement, the Company granted to Genor an exclusive, royalty-bearing, non-transferable license, with the right to grant sublicenses, to develop, obtain, hold and maintain regulatory approvals for, and commercialize lerociclib, in the Genor Territory.

Under the license agreement, Genor agreed to pay the Company a non-refundable, upfront cash payment of \$6.0 million with the potential to pay an additional \$40.0 million upon reaching certain development and commercial milestones. In addition, Genor will pay the Company tiered royalties ranging from high single to low double-digits based on annual net sales of lerociclib in the Genor Territory. In September 2020, the Company transferred to Genor the related technology and know-how that is necessary to develop, seek regulatory approval for, and commercialize lerociclib in the Genor Territory, which resulted in the recognition of \$6.0 million in revenue in accordance with ASC 606. Through December 31, 2021, the Company recognized an additional \$3.0 million in revenue for the achievement of development and commercial milestones as defined by the license agreement.

There was no milestone revenue recognized during the twelve months ended December 31, 2022.

EQRx License Agreement

On July 22, 2020, the Company entered into an exclusive license agreement with EQRx, Inc. (“EQRx”) for the development and commercialization of lerociclib in the U.S., Europe, Japan and all other global markets, excluding the Asia-Pacific region (except Japan) (the “EQRx Territory”). Under the license agreement, the Company granted to EQRx an exclusive, royalty-bearing, non-transferable license, with the right to grant sublicenses, to develop, obtain, hold and maintain regulatory approvals for, and commercialize lerociclib in the EQRx Territory.

Under the license agreement, EQRx agreed to pay the Company a non-refundable, upfront cash payment of \$20.0 million with the potential to pay an additional \$290.0 million upon reaching certain development and commercial milestones. In addition, EQRx will pay the Company tiered royalties ranging from mid-single digits to mid-teens based on annual net sales of lerociclib in the EQRx Territory. In September 2020, the Company transferred to EQRx the related technology and know-how that is necessary to develop, seek regulatory approval for, and commercialize lerociclib in the EQRx Territory which resulted in the recognition of \$20.0 million in revenue in accordance with ASC 606. EQRx will be responsible for the development of the product in the EQRx Territory. The Company will continue until completion, as the clinical trial sponsor, its two primary clinical trials at EQRx's sole cost and expense. EQRx will reimburse the Company for all of its out-of-pocket costs incurred after the effective date of the license agreement in connection with these clinical trials. The Company will invoice EQRx within 30 days following the end of the quarter, and EQRx will pay within 30 days after its receipt of such invoice.

During the twelve months ended December 31, 2022, the Company recognized revenue of \$2.4 million for the reimbursement of clinical trial costs and \$0.3 million for the reimbursement of patent costs. No development and commercial milestones, as defined by the agreement, have been achieved through December 31, 2022.

Simcere License Agreement

On August 3, 2020, the Company entered into an exclusive license agreement with Simcere for the development and commercialization of trilaciclib in all indications in Greater China (mainland China, Hong Kong, Macau, and Taiwan) (the "Simcere Territory"). Under the license agreement, the Company granted to Simcere an exclusive, royalty-bearing, non-transferable license, with the right to grant sublicenses, to develop, obtain, hold and maintain regulatory approvals for, and commercialize trilaciclib in the Simcere Territory.

Under the license agreement, Simcere agreed to pay the Company a non-refundable, upfront cash payment of \$14.0 million with the potential to pay an additional \$156.0 million upon reaching certain development and commercial milestones. In addition, Simcere will pay the Company tiered low double-digit royalties on annual net sales of trilaciclib in the Simcere Territory. In 2020, the Company transferred the license and related technology and know-how to Simcere, which resulted in the recognition of \$14.0 million in revenue in accordance with ASC 606. Through December 31, 2021 the Company recognized an additional \$8.0 million in revenue for the achievement of development and commercial milestones as defined by the license agreement.

During the twelve months ended December 31, 2022, the Company recognized \$2.3 million for reimbursement of clinical trial costs and \$0.7 million for drug supply sold to Simcere. There was \$14.0 million of milestone revenue recognized during the twelve months ended December 31, 2022.

12. Net Loss per Common Share

Basic net loss per common share is computed using the weighted average number of common shares outstanding during the period including nominal issuances of common stock warrants. Diluted net loss per common share is computed using the sum of the weighted average number of common shares outstanding during the period and, if dilutive, the weighted average number of potential shares of common stock, including the assumed exercise of stock options, stock warrants and unvested restricted common stock. For the years ended December 31, 2022, 2021 and 2020, the following potentially dilutive securities have been excluded from the computations of diluted weighted-average shares outstanding because the effect would be anti-dilutive:

	Year Ended December 31,		
	2022	2021	2020
Stock options issued and outstanding	7,692,064	7,056,745	6,576,688
Unvested RSUs	636,978	451,138	—
Total potential dilutive shares	8,329,042	7,507,883	6,576,688

Amounts in the table above reflect the common stock equivalents of the noted instruments.

13. Income Taxes

Income taxes are accounted for using the asset and liability method. Deferred tax assets and liabilities are recognized for the future tax consequences attributable to temporary differences between the financial statements carrying amounts of assets and liabilities and their respective tax bases, operating loss carryforwards, and tax credit carryforwards. Deferred tax assets and liabilities are measured using enacted tax rates expected to apply to taxable income in the years in which those temporary differences are expected to be recovered or settled. The effect on deferred tax assets and liabilities of a change in tax rates is recognized in income in the period that includes the enactment date.

In accordance with FASB ASC 740, *Accounting for Income Taxes*, the Company reflects in the financial statements the benefit of positions taken in a previously filed tax return or expected to be taken in a future tax return only when it is considered 'more-likely-than-not' that the position taken will be sustained by a taxing authority. As of December 31, 2022 and 2021, the Company had no unrecognized income tax benefits and correspondingly there is no impact on the Company's effective income tax rate associated with these items. The Company's policy for recording interest and penalties relating to uncertain income tax positions is to record them as a component of income tax expense in the accompanying statements of operations. As of December 31, 2022 and 2021, the Company had no such accruals.

The components of income tax expense (benefit) attributable to continuing operations are as follows:

	Year ended December 31,		
	2022	2021	2020
Current Expense:			
Federal	\$ —	\$ —	\$ —
State	—	—	—
Foreign	1,700	925	1,410
	<u>1,700</u>	<u>925</u>	<u>1,410</u>
Deferred Expense:			
Federal	—	—	—
State	—	—	—
Foreign	—	—	—
	<u>\$ 1,700</u>	<u>\$ 925</u>	<u>\$ 1,410</u>

The differences between the company's income tax expense attributable to continuing operations and the expense computed at the 21% U.S. statutory income tax rate were as follows (in thousands):

	Year ended December 31,		
	2022	2021	2020
Federal income tax benefit at statutory rate:	\$ (30,631)	\$ (30,960)	\$ (20,547)
Increase (reduction) in income tax resulting from:			
State Income Taxes	(5,372)	(1,923)	(1,779)
Increase in Valuation Allowance	36,472	27,618	23,782
Stock Compensation	2,879	108	1,341
Research and Development Credit	(3,521)	(3,030)	(3,091)
NC Tax Rate Change	—	8,359	—
Foreign Withholding Tax	1,700	925	1,410
Other	173	(172)	294
	<u>\$ 1,700</u>	<u>\$ 925</u>	<u>\$ 1,410</u>

On November 18, 2021, North Carolina enacted the 2021 Appropriations Act, which included a gradual corporate income tax rate decrease from the current 2.5% to 0% by 2030. The Company is in a cumulative loss position and does not have significant deferred tax liabilities that can be utilized as a source of taxable income in the future. Therefore, the Company has reduced its North Carolina deferred tax assets, including the NOLs, to zero, as no benefit is expected to be realized from these deferred tax assets prior to 2030 when there would be no income tax in North Carolina. The reduction in the value of the deferred tax assets resulted in \$8.4 million of tax expense in the year ended December 31, 2021, which was offset fully by the reduction in the corresponding valuation allowance. If the Company becomes profitable prior to 2030, the Company will recognize an income tax benefit related to the portion of its North Carolina deferred tax assets utilized.

The tax effects of temporary differences and operating loss carryforwards that gave rise to significant portions of the deferred tax assets and deferred tax liabilities were as follows at December 31, 2022 and 2021 (in thousands):

	Year ended December 31,	
	2022	2021
Deferred tax assets		
Accrued expenses	\$ 4,127	\$ 2,633
Operating lease liabilities	1,596	1,730
Stock compensation	10,518	9,037
R&D credits	20,516	16,995
Net operating loss carryforwards	117,896	108,489
Nondeductible Interest	2,178	—
Research and experimentation costs	17,945	—
Other	571	191
Deferred tax assets	<u>175,347</u>	<u>139,075</u>
Deferred tax liabilities		
Operating lease assets	(1,410)	(1,548)
Other	(65)	(127)
Deferred tax liabilities	<u>(1,475)</u>	<u>(1,675)</u>
Valuation allowance	<u>(173,872)</u>	<u>(137,400)</u>
Net deferred tax assets	<u>\$ —</u>	<u>\$ —</u>

Under the Tax Act, specified research and experimentation costs under Section 174 of the Code are required to be capitalized and amortized ratably over five years for domestic expenditures and over 15 years for foreign expenditures. This provision of Section 174 became effective for tax years beginning after December 31, 2021. As a result of the capitalization of these costs in the current year, the Company has recorded a \$17.9 million deferred tax asset.

At December 31, 2022 and December 31, 2021, the Company evaluated all significant available positive and negative evidence, including the existence of losses in recent years and management's forecast of future taxable income, and, as a result, determined it was more likely than not that federal and state deferred tax assets, including benefits related to net operating loss carryforwards, would not be realized. The valuation allowance increased \$36.5 million from \$137.4 million at December 31, 2021 to \$173.9 million at December 31, 2022. The increase in valuation allowance was due primarily to the increase in net operating loss carryforwards, capitalized research and experimentation costs, and income tax credits.

The table below summarizes changes in the deferred tax valuation allowance (in thousands):

	2022	2021	2020
Balance at beginning of year	\$ 137,400	\$ 109,782	\$ 86,000
Charges to costs and expenses	36,472	35,961	25,170
Write-offs ¹	—	(8,343)	(1,388)
Balance at end of year	<u>\$ 173,872</u>	<u>\$ 137,400</u>	<u>\$ 109,782</u>

¹ Includes impact of NC enacted tax rate change

At December 31, 2022, the Company has federal net operating loss carryforwards (“NOLs”) of approximately \$545.1 million, which are available to offset future taxable income. Of the \$545.1 million available, \$95.4 million will begin to expire in 2029. The remaining \$449.7 million has an indefinite carryforward period. Under the Tax Cuts and Jobs Act (“Tax Act”), federal NOLs arising after December 31, 2017 may be carried forward indefinitely. However, for NOLs arising after December 31, 2017, NOL carryforwards will be limited to 80% of taxable income. The Company’s NOLs generated in 2017 and in prior years will not be subject to the 80% limitation under the Tax Act. In addition, the Company has state net operating loss carryforwards totaling approximately \$369.4 million, which are available to offset future state taxable income. The state net operating loss carryforwards are inclusive of North Carolina net operating losses, which are recorded at zero benefit, as discussed in this footnote. State net operating losses begin to expire in 2024. Because the Company has incurred cumulative net operating losses since inception, all tax years remain open to examination by U.S. federal and state income tax authorities. As of December 31, 2022, the Company also had federal research and development (R&D) credit carryforwards of approximately \$20.5 million available to offset future income tax which begin to expire in 2035.

In accordance with FASB ASC 740, *Accounting for Income Taxes*, the Company reflects in the financial statements the benefit of positions taken in a previously filed tax return or expected to be taken in a future tax return only when it is considered ‘more-likely-than-not’ that the position taken will be sustained by a taxing authority. As of December 31, 2022 and 2021, the Company had no unrecognized income tax benefits and correspondingly there is no impact on the Company’s effective income tax rate associated with these items. The Company’s policy for recording interest and penalties relating to uncertain income tax positions is to record them as a component of income tax expense in the accompanying statements of income. As of December 31, 2022 and 2021, the Company had no such accruals.

Section 382 Limitation

The Company’s ability to utilize its net operating loss and research and development credit carryforwards may be substantially limited due to ownership changes that may have occurred or that could occur in the future, as required by Section 382 of the Internal Revenue Code of 1986, as amended (the “Code”), as well as similar state provisions. These ownership changes may limit the amount of NOL and R&D credit carryforwards that can be utilized annually to offset future taxable income and tax, respectively. In general, an “ownership change,” as defined by Section 382 of the Code, results from a transaction or series of transactions over a three-year period resulting in an ownership change of more than 50 percent of the outstanding stock of a company by certain stockholders or public groups.

In April 2019, the Company completed an evaluation study as to whether an “ownership change” had occurred and determined that the limitation would be approximately \$8.0 million on federal net operating loss carryforwards, \$1.2 million on state net operating loss carryforwards, and \$0.1 million on R&D tax credit carryforwards. The carryforward amounts reported above have already been reduced for these limitations. The Company continues to maintain a valuation allowance on the remaining NOLs as it believes that it is more likely than not that all of the deferred tax asset associated with the NOLs will not be realized regardless of whether an “ownership change” has occurred.

14. Related Party Transactions

The Company entered into a senior advisor agreement on September 29, 2020 with Mark A. Velleca, M.D., Ph.D., a member of the Board of Directors, with an effective date of January 1, 2021. Pursuant to the terms of the agreement, Dr. Velleca will receive \$200,000 annually, paid in equal quarterly installments, for his services. The senior advisory agreement will expire on December 31, 2023.

15. Quarterly Results of Operations (Unaudited)

The following table contains quarterly financial information for 2022 and 2021. The Company believes that the following information reflects all normal recurring adjustments necessary for a fair statement of the information for the periods presented. The operating results for any quarter are not necessarily indicative of results for any future period.

	Three Months Ended			
	(unaudited)			
	(in thousands, except share and per share amounts)			
	March 31, 2022	June 30, 2022	September 30, 2022	December 31, 2022
Product sales, net	\$ 5,480	\$ 8,718	\$ 8,269	\$ 8,870
License revenue	1,422	1,855	15,307	1,380
Total revenues	6,902	10,573	23,576	10,250
Total operating expenses	53,683	47,535	45,124	41,137
Loss from operations	(46,781)	(36,962)	(21,548)	(30,887)
Total other income (expense), net	(2,411)	(2,484)	(2,505)	(2,281)
Loss before income taxes	(49,192)	(39,446)	(24,053)	(33,168)
Income tax expense	—	—	1,219	481
Net loss	\$ (49,192)	\$ (39,446)	\$ (25,272)	\$ (33,649)
Net loss per share, basic and diluted	\$ (1.15)	\$ (0.92)	\$ (0.59)	\$ (0.73)
Weighted average common shares outstanding, basic and diluted	42,687,201	42,707,703	42,799,342	46,279,808

	March 31, 2021	June 30, 2021	September 30, 2021	December 31, 2021
Product sales, net	\$ 609	\$ 2,532	\$ 3,576	\$ 4,403
License revenue	13,609	4,072	1,282	1,393
Total revenues	14,218	6,604	4,858	5,796
Total operating expenses	39,753	44,796	46,002	43,382
Loss from operations	(25,535)	(38,192)	(41,144)	(37,586)
Total other income (expense), net	(769)	(1,010)	(1,003)	(2,188)
Loss before income taxes	(26,304)	(39,202)	(42,147)	(39,774)
Income tax expense	138	220	321	246
Net loss	\$ (26,442)	\$ (39,422)	\$ (42,468)	\$ (40,020)
Net loss per share, basic and diluted	\$ (0.65)	\$ (0.94)	\$ (1.00)	\$ (0.94)
Weighted average common shares outstanding, basic and diluted	40,700,827	42,119,850	42,383,573	42,544,321

16. Subsequent Event

On February 13, 2023, the Company made the decision to discontinue PRESERVE 1 following the announcement of top line results. In connection with the announcement, on February 22, 2023, the Company approved changes to the Company's organization as well as a broader operational cost reduction plan. As part of this plan, the Company approved a reduction in the Company's workforce by approximately 30% across different areas and functions in the Company to be effective on March 1, 2023. Affected employees were offered separation benefits, including severance payments. The Company estimates that the severance and termination-related costs will total approximately \$1.4 million and expects to record these charges in the first quarter of 2023. The Company expects that payments of these costs will be substantially complete through the end of the first quarter of 2023.

February 28, 2023

Jennifer K. Moses
109 Cedar Cliff Ct.
Cary, NC 27518

Re: Senior Advisor Agreement

Dear Jennifer:

I am providing this letter agreement (the "Agreement") to confirm the terms of your senior advisor engagement with G1 Therapeutics, Inc. (the "Company"). We appreciate all of your efforts and contributions to the Company, and look forward to entering into this engagement and continuing our valuable work relationship with each other.

1. Senior Advisor. We anticipate that you shall continue to serve as the Company's Chief Financial Officer until March 15, 2023, continue as an employee until March 31, 2023 under your Employment Agreement with the Company (as amended, the "Employment Agreement"), and then transition to the role of senior advisor to the Company. You shall perform services as a Senior Advisor for a period of one (1) year, from March 31, 2023 (the "Advisor Start Date") through March 31, 2024 (the "Senior Advisor Term"). As a Senior Advisor, you shall report to the Company's Chief Executive Officer ("CEO"), and provide financial and accounting advice and assistance to the CEO, to the Company, and other services as reasonably requested by the CEO. It is anticipated that you shall perform services as a Senior Advisor on average of five (5) hours per week. The Company shall pay you a fee of Twenty-Five Thousand Dollars (\$25,000) annually for your services (the "Senior Advisor Fee"), paid in equal monthly installments in accordance with the Company's normal practices. In addition, the Company shall reimburse you for business related expenses incurred as a Senior Advisor, pursuant to the terms and conditions of applicable Company policies. You may terminate your services as a Senior Advisor upon sixty (60) days' advance written notice to the Company, or immediately for cause in the event of the material breach by the Company of its obligations hereunder or under any other agreement between you and the Company. The Company may terminate your services as a Senior Advisor immediately for cause in the event of your gross negligence, willful misconduct, or material breach of your obligations hereunder, provided that you shall have the opportunity to cure any alleged material breach following notice to you describing the basis therefor.

2. Equity. You and the Company acknowledge and agree that you have been granted Company equity, including options to purchase common stock in the Company (the "Options"), restricted stock units ("RSUs"), and performance stock units ("PSUs") (the PSUs, together with the Options and RSUs, collectively the "Equity") prior to the Advisor Start Date, pursuant to the Company's 2011 Equity Incentive Plan (the "2011 Plan") and Amended and Restated 2017 Employee, Director and Consultant Equity Incentive Plan (the "2017 Plan") (collectively, the "Equity Incentive Plans") and stock option agreements, RSU agreements, and PSU agreement executed by you pursuant thereto. As we have agreed: (a) no additional equity shall be granted to you during the Senior Advisor Term; (b) as a Senior Advisor you shall qualify as a consultant and/or service provider under the Equity Incentive Plans; (c) rights and obligations with respect to vesting and exercise of the Equity shall remain subject to the terms and conditions of the Equity Incentive Plans; and (d) continued vesting of outstanding Equity shall be subject to your continued compliance with the Continuing Covenants. Notwithstanding the foregoing, in the event of a Change in Control (as defined below), one hundred percent (100%) of any unvested portion of the Equity shall vest immediately prior to, and subject to, the consummation of the Change in Control. For the purposes of this paragraph, a "Change in Control" means (i) the Company's merger or consolidation with or into another entity such that

the stockholders of the Company prior to such transaction do not or are not expected to own a majority of the voting stock of the surviving entity, (ii) the sale or other disposition of all or substantially all of the assets of the Company, or (iii) the sale or other disposition of greater than fifty percent (50%) of the then-outstanding voting stock of the Company by the holders thereof to one or more persons or entities who are not then stockholders of the Company.

3. Continuing Covenants. We acknowledge and agree that your obligations under your existing confidentiality and intellectual property covenants contained in (i) Sections 10 of the Employment Agreement, (ii) the Employee Non-Competition and Non-Solicitation Agreement by and between Employee and the Company, and (iii) the Employee Confidentiality and Inventions Agreement by and between Employee and the Company, and any similar covenants applicable to you (collectively the “Continuing Covenants”) shall remain in effect following the Advisor Start Date pursuant to their terms, which are incorporated herein and shall survive the signing of this Agreement.

4. Acknowledgement and Waiver Regarding Employment Agreement. As stated above, prior to the Senior Advisor Term you shall continue in your role as Chief Financial Officer of the Company under the Employment Agreement. Your employment with the Company shall conclude on the Advisor Start Date, and your eligibility and entitlements under Company-provided employment plans or programs shall be governed by the terms and conditions of such plans or programs (including, for instance, the impact of employment separation on benefits eligibility). Notwithstanding the foregoing: (a) by signing below, you expressly acknowledge and agree that the execution of this Agreement and the conclusion of your role as Chief Financial Officer as described herein shall not constitute a termination without “Cause” or a resignation for “Good Reason” (as those terms are defined in the Employment Agreement); and (b) by signing below, you expressly waive your right to receive the Separation Benefits described in Section 4 of the Employment Agreement, and acknowledge that such waiver constitutes a valid waiver in writing signed by the waiving party pursuant to Section 7 of the Employment Agreement. Except as otherwise stated in this Agreement, on the Advisor State Date this Agreement shall supersede the terms of the Employment Agreement, and shall be the sole agreement between you and the Company.

5. Release. In exchange for the mutual promises and consideration provided in this Agreement, you waive and release your right to assert a legal claim against the Company^{1/} for any alleged action, inaction or circumstance existing or arising from the beginning of time through the date of this Agreement. This waiver and release bars any form of legal claim, complaint or other action (jointly “Claims”) against the Company seeking any form of relief, including equitable relief, the recovery of any damages, or any other form of monetary recovery (including, without limitation, back pay, front pay, compensatory damages, emotional distress damages, punitive damages, attorney’s fees and any other costs), for any alleged action, inaction or circumstance existing or arising through the date of this Agreement. Without limiting the foregoing, you specifically waive and release the Company from any waivable claim arising from or related to your relationship with the Company, including: (i) Claims under any local, state, or federal employment-related statute, regulation, or executive order (as amended) relating to the employment relationship, including but not limited to the Age Discrimination in Employment Act, the Civil Rights Acts of 1866 and 1871, Title VII of the Civil Rights Act of 1964, the Civil Rights Act of 1991, the Equal Pay Act, the Americans With Disabilities Act, the Family and Medical Leave Act, the Genetic Information Non-Discrimination Act, the Families First Coronavirus Response Act, the Uniformed Services Employment and Reemployment Rights Act of 1994, the National Labor Relations Act, the Employee Retirement Income Security Act of 1974, COBRA, the Worker Adjustment and Retraining Notification Act, the Lilly Ledbetter

^{1/} For the purposes of this section, the “Company” shall include G1 Therapeutics, Inc., its divisions, affiliates, parents and subsidiaries, and its and their respective officers, directors, employees, attorneys, agents and assigns.

Fair Pay Act, the North Carolina Equal Employment Practices Act, the North Carolina Retaliatory Employment Discrimination Act, the North Carolina Persons with Disabilities Protection Act, and any similar North Carolina or other state or federal statute; (ii) Claims under any other statute, regulation or executive order (as amended) relating to terms and conditions of employment, including any North Carolina or other state or federal statute; (iii) Claims under any North Carolina or other state or federal common law theory, including wrongful discharge, breach of express or implied contract, promissory estoppel, unjust enrichment, breach of the covenant of good faith and fair dealing, retaliation, violation of public policy, defamation, interference with contractual relations, intentional or negligent infliction of emotional distress, invasion of privacy, misrepresentation, deceit, fraud, or negligence, or any claim to attorneys' fees under any applicable statute or common law theory of recovery; (iv) Claims to any Separation Benefit described in Section 4 of the Employment Agreement.

For the avoidance of doubt, the release in the above paragraph shall not: (i) include any claims relating to the obligations of the Company under this Agreement; (ii) affect your vested and accrued rights as a participant in the Company's 401(k) plan or other benefit plan; or (iii) affect your rights with respect to the Equity awards as described in this Agreement. In addition, the parties understand that nothing contained in this Agreement limits your ability to file a charge or complaint with the Equal Employment Opportunity Commission, the National Labor Relations Board, the Occupational Safety and Health Administration, the Securities and Exchange Commission or any other federal, state or local governmental agency or commission (the "Government Agencies"), or limits your ability to communicate with any Government Agencies or otherwise participate in any investigation or proceeding that may be conducted by any Government Agencies, including providing documents or other information, without notice to Company, or limits your right to receive an award for information provided to any Government Agencies. You understand, however, that, except as limited by the immediately preceding sentence, by signing this Agreement, you waive your right to any monetary recovery in connection with Government Agencies proceedings and your right to file a claim seeking monetary damages in any court, administrative agency or arbitral tribunal.

6. Independent Contractor Status. As a Senior Advisor, you shall be an independent contractor, and you shall not be considered an employee for purposes of any Company employment policy, plan or program. While serving as a Senior Advisor, you shall not act as an agent of the Company, or have authority to bind, represent or speak for the Company. The Company shall record Senior Advisor Fee payments on an IRS Form 1099, and shall not withhold any federal, state or local employment taxes from the Senior Advisor Fee on your behalf; you agree to pay such taxes and accept liability for complying with applicable state and federal laws governing self-employed individuals. Please note that you shall be free to provide professional consulting services to individuals or entities other than the Company during the Senior Advisor Term, provided you meet your service obligations to the Company as described herein, and further provided that you may not render services in a manner that violates your legal obligations, including pursuant to the Continuing Covenants.

7. Taxes. Both parties intend this Agreement to be in compliance with Section 409A of the Internal Revenue Code of 1986 (as amended). The Company does not guarantee the tax treatment or tax consequences associated with any payment or benefit arising under this Agreement, including, without limitation, related to Code Section 409A. In the event any payments or benefits are deemed by the IRS to be non-compliant, this Agreement, at your option, shall be modified to the extent practicable, so as to make it compliant by altering the payments or benefits, or the timing of their receipt, provided that no such modification shall increase the Company's obligations hereunder.

8. General. The parties acknowledge and agree that, except for the Continuing Covenants, the Equity Incentive Plans and any applicable stock option agreement executed by you pursuant thereto, this Agreement supersedes any prior or contemporaneous oral and/or written agreements between you and the Company relating to the subject matter described herein, and sets forth the entire agreement between you and the Company relating to such subject matter. No modifications hereof shall be deemed valid unless reduced to writing and signed by the parties. The failure of either party to seek enforcement of any provision of this Agreement in any instance or for any period of time shall not be construed as a waiver of such provision or of such party's right to seek enforcement of such provision in the future. This Agreement shall be deemed to have been made in North Carolina and shall be construed in accordance with the laws of North Carolina without giving effect to conflict of law principles. The provisions of this Agreement are severable, and if for any reason any part hereof shall be found to be unenforceable, the remaining provisions shall be enforced in full, provided, however, that if any or all of the release herein is held unenforceable, this Agreement except for such release shall be deemed null and void.

By executing this Agreement, the parties each acknowledge and agree that: (1) the party has carefully read and understood the terms and effects of this Agreement; (2) the party has been afforded sufficient time to understand the terms and effects of this Agreement; (3) the party's agreements and obligations hereunder are made voluntarily, knowingly and without duress; and (4) neither party or its agents or representatives have made any representations inconsistent with the provisions of this Agreement.

[Signature Page Follows]

[Signature Page to Senior Advisor Agreement]

If this Agreement is acceptable to you, please sign, date and return the enclosed copy of this Agreement to me.

Very Truly Yours,

G1 Therapeutics, Inc.

/s/ James Stillman Hanson
By: James Stillman Hanson
Its: General Counsel

Confirmed and Agreed:

/s/ Jennifer K. Moses
Jennifer K. Moses

Dated: February 28, 2023

EMPLOYMENT AGREEMENT

This EMPLOYMENT AGREEMENT (the “**Agreement**”), is made and entered into effective as of February 28, 2023 (the “**Effective Date**”), by and between G1 Therapeutics, Inc., a Delaware corporation (the “**Company**”), and John W. Umstead V (“**Employee**”).

1. EMPLOYMENT; DUTIES. The Company agrees to employ Employee as its Chief Financial Officer, and Employee agrees to accept such employment upon the terms and conditions hereinafter set forth. Employee will perform such services for the Company as are customarily associated with such position and as may otherwise be assigned to the Employee from time to time by the Company’s Chief Executive Officer or his designee. Employee will devote Employee’s full business time and attention to the business and affairs of the Company, and will perform Employee’s duties diligently and to the best of Employee’s ability, in compliance with the Company’s policies and procedures and the laws and regulations that apply to the Company’s business.

2. TERM; TERMINATION. Employee’s employment under this Agreement will commence on March 15, 2023 (the “**Start Date**”) and will continue until terminated by either party. Employee’s employment with the Company is at-will, and either party can terminate the employment relationship and/or this Agreement at any time, for any or no cause or reason, and with or without prior notice, subject to the applicable terms of Section 4. Upon termination of Employee’s employment by either party for any reason, Employee will resign Employee’s position(s), if any, as an officer or director of the Company, as a member of the Company’s Board of Directors (the “**Board**”) and any Board committees, as well as any other positions Employee may hold with or for the benefit of the Company and/or its affiliates.

3. COMPENSATION. As compensation for the services to be rendered by Employee under this Agreement, the Company will provide the following compensation and benefits during Employee’s employment hereunder.

(a) BASE SALARY. The Company will pay Employee a base salary (the “**Base Salary**”) at an annual rate of Four Hundred and Five Thousand Dollars (\$405,000), payable in equal installments in accordance with the Company’s customary payroll practices as in effect from time to time. The Base Salary may be reviewed from time to time by the Company and may be increased in the sole discretion of the Company. The Base Salary may also be decreased in connection with any Company-wide decrease in executive compensation.

(b) ANNUAL BONUS. Employee will be eligible to receive an annual calendar year bonus based upon Employee’s and the Company’s achievement of certain individual and Company goals that will be set for Employee by the Board or its designee (the “**Annual Bonus**”). The amount of the target Annual Bonus will be equal to forty percent (40%) of Employee’s then-current Base Salary as of the date of the payment; provided that the actual amount of the Annual Bonus may be greater or less than such target amount. The Board or its designee will have the sole discretion to set the applicable individual and Company goals, to determine whether the goals have been met, and to determine the amount of the Annual Bonus. The Annual Bonus for any given year, if any is earned, will be paid in accordance with, and subject to, the Company’s policies and procedures in effect from

time to time. Employee must be employed by the Company on December 31 of the bonus year in order to receive the Annual Bonus for that year.

(c) EQUITY.

(i) STOCK OPTIONS. Effective on March 15, 2023, Employee will be granted stock options to purchase One Hundred Thousand (100,000) shares of the Company's common stock (the "**Options**") at a per share exercise price equal to the Fair Market Value (as defined in the Company's Amended and Restated 2017 Employee, Director and Consultant Equity Incentive Plan) of the Company's common stock on the date of grant. The Options will be, to the maximum extent permissible, treated as "incentive stock options" within the meaning of Section 422 of the Internal Revenue Code and the rules and regulations thereunder. The Options will be granted pursuant to and subject to the terms and conditions of the Company's Amended and Restated 2017 Employee, Director and Consultant Equity Incentive Plan and will be further subject to the terms of a stock option agreement as approved by the Board setting forth the exercise price, vesting conditions and other restrictions. One fourth (1/4th) of the total number of such Options will vest on the first anniversary of the date hereof, and one forty-eighth (1/48th) of the total number of Options will vest each month over the following thirty-six (36) months thereafter, so long as Employee remains employed by the Company through each such vesting date. One Hundred percent (100%) of any unvested Options will immediately vest if Employee's employment is terminated by the Company without Cause (as defined below) or Employee resigns with Good Reason (as defined below) within ninety (90) days following a Change in Control. A "**Change in Control**" means (i) the Company's merger or consolidation with or into another entity such that the stockholders of the Company prior to such transaction do not or are not expected to own a majority of the voting stock of the surviving entity, (ii) the sale or other disposition of all or substantially all of the assets of the Company, or (iii) the sale or other disposition of greater than fifty percent (50%) of the then-outstanding voting stock of the Company by the holders thereof to one or more persons or entities who are not then stockholders of the Company.

(ii) RESTRICTED STOCK UNITS. Effective on March 15, 2023, Employee will be granted Fifty Thousand (50,000) restricted stock units ("**RSUs**") with respect to the Company's common stock. The RSUs will be subject to the terms of a RSU award agreement as approved by the Board setting forth vesting conditions and other restrictions applicable to the RSUs. The RSUs will vest over a four (4) year period following the Start Date, with one fourth (1/4) of the total number of such RSUs vesting on each of the first, second, third, and fourth anniversaries of the Start Date, so long as Employee remains employed by the Company through each such vesting date. One Hundred percent (100%) of any unvested RSUs will vest immediately if Employee's employment is terminated by the Company without Cause (as defined below) or Employee resigns with Good Reason (as defined below) within ninety (90) days following a Change in Control (as defined above).

(d) PAID TIME OFF. Employee will be eligible for paid time off in accordance with, and subject to, the Company's policies and procedures in effect from time to time.

(e) BENEFITS. Employee will (subject to applicable eligibility requirements) receive such other benefits as are provided from time to time to other similarly-situated employees of the Company pursuant to the Company's policies and procedures as they may be instituted from time to time. All such benefits are subject to the provisions of their respective plan documents in accordance with their terms. Employee acknowledges and agrees that the Company has the unilateral right to

amend, modify or terminate its employee benefit plans or policies to the maximum extent allowed by law.

(f) EXPENSE REIMBURSEMENT. The Company will reimburse Employee for all reasonable business expenses incurred by Employee in connection with the performance of Employee's duties hereunder, subject to Employee's compliance with the Company's reimbursement policies in effect from time to time. All reimbursements provided under this Agreement will be made or provided in accordance with the requirements of Section 409A of the Internal Revenue Code and the rules and regulations thereunder including, where applicable, the requirement that (i) any reimbursement is for expenses incurred during Employee's lifetime (or during a shorter period of time specified in this Agreement); (ii) the amount of expenses eligible for reimbursement during a calendar year may not affect the expenses eligible for reimbursement in any other calendar year; (iii) the reimbursement of an eligible expense shall be made no later than the last day of the calendar year following the year in which the expense is incurred; and (iv) the right to reimbursement or in kind benefits is not subject to liquidation or exchange for another benefit.

(g) WITHHOLDINGS. The Company will withhold from any amounts payable under this Agreement, such federal, state and local taxes, as the Company reasonably determines are required to be withheld pursuant to applicable law.

4. EFFECT OF TERMINATION.

(a) GENERALLY. When Employee's employment with the Company is terminated for any reason, Employee, or Employee's estate, as the case may be, will be entitled to receive the compensation and benefits earned through the effective date of termination, along with reimbursement for any approved business expenses that Employee has timely submitted for reimbursement in accordance with the Company's expense reimbursement policy or practice.

(b) SEPARATION BENEFIT UPON CERTAIN TERMINATIONS. If the Company terminates Employee's employment without Cause (as defined below), or if Employee resigns Employee's employment for Good Reason (as defined below), then conditioned upon Employee executing a Release (as defined below) following such termination, Employee will be entitled to receive an amount equal to payment of Employee's then-current Base Salary for a period of twelve (12) months (the "**Separation Benefit**"). The Separation Benefit is conditioned upon Employee executing a release of claims in a form satisfactory to the Company (the "**Release**") within the time specified therein, which Release is not revoked within any time period allowed for revocation under applicable law. The Separation Benefit will be payable to Employee over time in accordance with the Company's payroll practices and procedures beginning on the sixtieth (60th) day following the termination of Employee's employment with the Company, provided that the Company, in its sole discretion, may begin the payments earlier. For avoidance of doubt, the termination of Employee's employment as a result of Employee's death or disability (meaning the inability of Employee, due to the condition of Employee's physical, mental or emotional health, effectively to perform the essential functions of Employee's job with or without reasonable accommodation for a continuous period of more than 90 days or for 90 days in any period of 180 consecutive days, as determined by the Board in its sole discretion in consultation with a physician retained by the Company) will not constitute a termination without Cause triggering the rights described in this Section 4(b).

(c) CAUSE. For purposes of this Agreement, “Cause” means: (i) Employee’s fraud, embezzlement or misappropriation with respect to the Company; (ii) Employee’s material breach of fiduciary duties to the Company; (iii) Employee’s willful or negligent misconduct; (iv) Employee’s material breach of this Agreement; (v) Employee’s willful failure or refusal to perform Employee’s material duties under this Agreement or failure to follow any specific lawful instructions of the Company; (vi) Employee’s conviction or plea of nolo contendere in respect of a felony or of a misdemeanor involving moral turpitude; (vii) Employee’s alcohol or substance abuse which has a material adverse effect on Employee’s ability to perform Employee’s duties under this Agreement; or (viii) Employee’s engagement in a form of discrimination or harassment prohibited by law (including, without limitation, discrimination or harassment based on race, color, religion, sex, national origin, age or disability). In the event that the Company concludes that Employee has engaged in acts constituting Cause as defined in clause (iii), (iv), (v), or (vii) above, prior to terminating this Agreement for Cause the Company will provide Employee with at least fifteen (15) days’ advance written notice of the specific circumstances constituting such Cause, and an opportunity to correct such circumstances.

(d) GOOD REASON. In order for Employee to resign for Good Reason, Employee must provide written notice to the Company of the existence of the Good Reason condition within thirty (30) days of the initial existence of such Good Reason condition. Upon receipt of such notice, the Company will have thirty (30) days during which it may remedy the Good Reason condition and not be required to provide for the benefits described in Section 4(b) above as a result of such proposed resignation if successfully remedied. If the Good Reason condition is not remedied within such thirty (30) day period, Employee may resign based on the Good Reason condition specified in the notice effective no later than thirty (30) days following the expiration of the thirty (30) day cure period. For purposes of this Agreement, “**Good Reason**” means the occurrence of any of the following events without Employee’s consent: (i) a material reduction of Employee’s Base Salary not generally applicable to other executive-level employees of the Company, (ii) a material diminution of the Employee’s authority, duties, or responsibilities, (iii) a relocation of Employee’s primary workplace to a location that is more than fifty (50) miles from the location of Employee’s primary workplace as of the date hereof, or (iv) the Company’s material breach of this Agreement.

(e) APPLICATION OF INTERNAL REVENUE CODE SECTION 409A. Notwithstanding anything to the contrary set forth herein, any payments and benefits provided under this Section 4 that constitute “deferred compensation” within the meaning of Section 409A of the Internal Revenue Code and the regulations and other guidance thereunder and any state law of similar effect (collectively “Section 409A”) will not commence in connection with Employee’s termination of employment unless and until Employee has also incurred a “separation from service” (as such term is defined in Treasury Regulation Section 1.409A-1(h) (a “**Separation From Service**”), unless the Company reasonably determines that such amounts may be provided to Employee without causing Employee to incur an additional tax under Section 409A. The parties intend that each installment of the Separation Benefits payments provided for in this Agreement is a separate “payment” for purposes of Treasury Regulation Section 1.409A-2(b)(2)(i). For the avoidance of doubt, the parties intend that payments of the Separation Benefits set forth in this Agreement satisfy, to the greatest extent possible, the exemptions from the application of Section 409A provided under Treasury Regulation Sections 1.409A-1(b)(4), 1.409A-1(b)(5) and 1.409A-1(b)(9). However, if the Company determines that the Separation Benefits constitute “deferred compensation” under Section 409A and Employee is, on the termination of service, a “specified employee” of the Company or any successor entity thereto, as such term is defined in Section 409A, then, solely to the extent necessary to avoid the incurrence of the

adverse personal tax consequences under Section 409A, the timing of the Separation Benefits payments will be delayed until the earlier to occur of: (i) the date that is six months and one day after Employee's Separation From Service, or (ii) the date of Employee's death (such applicable date, the "**Specified Employee Initial Payment Date**"), the Company (or the successor entity thereto, as applicable) will (A) pay to Employee a lump sum amount equal to the sum of the Separation Benefits payments that Employee would otherwise have received through the Specified Employee Initial Payment Date if the commencement of the payment of the Separation Benefits had not been so delayed pursuant to this Section and (B) commence paying the balance of the Separation Benefits in accordance with the applicable payment schedules set forth in this Agreement.

(f) NO FURTHER OBLIGATIONS. Except as expressly provided above or as otherwise required by law, the Company will have no obligations to Employee in the event of the termination of this Agreement for any reason.

5. EMPLOYEE REPRESENTATIONS. Employee represents and warrants that Employee is not obligated or restricted under any agreement (including any non-competition or confidentiality agreement), judgment, decree, order or other restraint of any kind that could impair Employee's ability to perform the duties and obligations required of Employee hereunder. Employee further agrees that Employee will not divulge to the Company any confidential information and/or trade secrets belonging to others, including Employee's former employers, nor will the Company seek to elicit from Employee such information. Consistent with the foregoing, Employee will not provide to the Company, and the Company will not request, any documents or copies of documents containing such information.

6. NOTICES. Any notice required to be given hereunder will be sufficient if in writing and hand delivered or sent by mail, return receipt requested, postage prepaid, in the case of Employee, to Employee's address shown on the Company's records, and in the case of the Company, to 700 Park Offices Drive, Suite 200, Research Triangle Park, North Carolina 27709, or to such other addresses as either party shall specify to the other.

7. AMENDMENT; WAIVER. No amendment of any provision of this Agreement will be valid unless the amendment is in writing and signed by the Company and Employee. No waiver of any provision of this Agreement will be valid unless the waiver is in writing and signed by the waiving party. The failure of a party at any time to require performance of any provision of this Agreement will not affect such party's rights at a later time to enforce such provision. No waiver by a party of any breach of this Agreement will be deemed to extend to any other breach hereunder or affect in any way any rights arising by virtue of any other breach.

8. GOVERNING LAW; VENUE. This Agreement will be governed by and construed in accordance with the laws of the State of North Carolina, without regard to that body of law known as choice of law. The parties agree that any litigation arising out of or related to this Agreement or Employee's employment by the Company will be brought exclusively in any state or federal court in Durham County, North Carolina. Each party (i) consents to the personal jurisdiction of said courts, (ii) waives any venue or inconvenient forum defense to any proceeding maintained in such courts, and (iii) agrees not to bring any proceeding arising out of or relating to this Agreement or Employee's employment by the Company in any other court.

9. BENEFIT. This Agreement will be binding upon and will inure to the benefit of each of the parties hereto, and to their respective heirs, representatives, successors and permitted assigns. Employee may not assign any of Employee's rights or delegate any of Employee's duties under this Agreement.

10. ENTIRE AGREEMENT; OTHER AGREEMENTS. This Agreement contains the entire agreement and understanding by and between the Company and Employee with respect to the subject matter hereof, and any representations, promises, agreements or understandings, written or oral, not herein contained will be of no force or effect; provided, however, that Employee is also subject to the terms and conditions of (i) that certain Employee Non-Competition and Non-Solicitation Agreement by and between Employee and the Company, and (ii) that certain Employee Confidentiality and Inventions Agreement by and between Employee and the Company, each of which remains in full force and effect.

11. CAPTIONS; RULE OF CONSTRUCTION. The captions in this Agreement are for convenience only and in no way define, bind or describe the scope or intent of this Agreement. The terms and provisions of this Agreement will not be construed against the drafter or drafters hereof. All parties hereto agree that the language of this Agreement will be construed as a whole according to its fair meaning and not strictly for or against any of the parties hereto.

12. COUNTERPARTS. This Agreement may be executed in one or more counterparts, each of which will be deemed an original but all of which together will constitute one and the same agreement. Facsimile or PDF reproductions of original signatures will be deemed binding for the purpose of the execution of this Agreement.

13. SEVERABILITY. Each provision of this Agreement is severable from every other provision of this Agreement. Any provision of this Agreement that is determined by any court of competent jurisdiction to be invalid or unenforceable will not affect the validity or enforceability of any other provision. Any provision of this Agreement held invalid or unenforceable only in part or degree will remain in full force and effect to the extent not held invalid or unenforceable.

14. SURVIVAL. The terms of Sections 4 through 14 will survive the termination or expiration of this Agreement for any reason.

[Signature Page Follows.]

[Signature Page to Employment Agreement]

IN WITNESS WHEREOF, the parties have executed this Agreement effective as of the Effective Date.

G1 THERAPEUTICS, INC.

By: /s/ John E. Bailey, Jr.
Name: John E. Bailey, Jr.
Title: Chief Executive Officer

EMPLOYEE:

/s/ John W. Umstead V
John W. Umstead V

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We hereby consent to the incorporation by reference in the Registration Statements on Form S-8 (Nos. 333-265832, 333-254705, 333-236229, 333-232106, 333-226701, and 333-218468) and Form S-3 (Nos. 333-257640 and 333-225678) of G1 Therapeutics, Inc. of our report dated March 1, 2023 relating to the financial statements, which appear in this Form 10-K.

Raleigh, North Carolina
March 1, 2023

**CERTIFICATION PURSUANT TO
RULES 13a-14(a) AND 15d-14(a) UNDER THE SECURITIES EXCHANGE ACT OF 1934,
AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, John E. Bailey, Jr., certify that:

1. I have reviewed this Annual Report on Form 10-K of G1 Therapeutics, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) all significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: March 1, 2023

By: /s/ John E. Bailey, Jr.
John E. Bailey, Jr.
President and Chief Executive Officer
(Principal Executive Officer)

**CERTIFICATION PURSUANT TO
RULES 13a-14(a) AND 15d-14(a) UNDER THE SECURITIES EXCHANGE ACT OF 1934,
AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Jennifer K. Moses, certify that:

1. I have reviewed this Annual Report on Form 10-K of G1 Therapeutics, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) all significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: March 1, 2023

By: /s/ Jennifer K. Moses
Jennifer K. Moses
Chief Financial Officer
(Principal Financial and Accounting Officer)

CERTIFICATION UNDER SECTION 906

Pursuant to section 906 of the Sarbanes-Oxley Act of 2002 (subsections (a) and (b) of section 1350, chapter 63 of title 18, United States Code), the undersigned officer of G1 Therapeutics, Inc., a Delaware corporation (the "Company"), does hereby certify, to such officer's knowledge, that:

The Annual Report for the year ended December 31, 2022 (the "Form 10-K") of the Company fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934, and the information contained in the Form 10-K fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: March 1, 2023

/s/ John E. Bailey, Jr.

John E. Bailey, Jr.

President and Chief Executive Officer

(Principal Executive Officer)

CERTIFICATION UNDER SECTION 906

Pursuant to section 906 of the Sarbanes-Oxley Act of 2002 (subsections (a) and (b) of section 1350, chapter 63 of title 18, United States Code), the undersigned officer of G1 Therapeutics, Inc., a Delaware corporation (the "Company"), does hereby certify, to such officer's knowledge, that:

The Annual Report for the year ended December 31, 2022 (the "Form 10-K") of the Company fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934, and the information contained in the Form 10-K fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: March 1, 2023

/s/ Jennifer K. Moses

Jennifer K. Moses

Chief Financial Officer

(Principal Financial and Accounting Officer)