
**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, DC 20549**

**AMENDMENT NO. 1
TO
FORM S-1**

**REGISTRATION STATEMENT
under the
SECURITIES ACT OF 1933**

CYCLACEL PHARMACEUTICALS, INC.
(Exact Name of Registrant as Specified in Its Charter)

Delaware
(State or other
jurisdiction of incorporation or organization)

3826
(Primary Standard Industrial
Classification Code Number)

91-1707622
(IRS Employer
Identification No.)

**200 Connell Drive, Suite 1500
Berkeley Heights, NJ 07922
(908) 517-7330**
(Address, including zip code, and telephone number, including area
code, of registrant's principal executive offices)

**Spiro Rombotis
President & Chief Executive Officer
Cyclacel Pharmaceuticals, Inc.
200 Connell Drive, Suite 1500
Berkeley Heights, NJ 07922
(908) 517-7330**
(Name, address, including zip code, and telephone number, including area code, of agent for service)

Copies to:

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Approximate date of commencement of proposed sale to the public:
From time to time after this registration statement becomes effective.

If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933 check the following box.

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a post-effective amendment filed pursuant to Rule 462(d) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, 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

Accelerated filer

Non-accelerated filer

Smaller reporting company

Emerging growth company

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 7(a)(2)(B) of the Securities Act.

The registrant hereby amends this registration statement on such date or dates as may be necessary to delay its effective date until the registrant shall file a further amendment which specifically states that this registration statement shall thereafter become effective in accordance with section 8(a) of the Securities Act of 1933 or until the registration statement shall become effective on such date as the Securities and Exchange Commission, acting pursuant to said section 8(a), may determine.

THE INFORMATION IN THIS PROSPECTUS IS NOT COMPLETE AND MAY BE CHANGED. THE SECURITY HOLDERS IDENTIFIED IN THIS PROSPECTUS MAY NOT SELL THESE SECURITIES UNTIL THE REGISTRATION STATEMENT FILED WITH THE SECURITIES AND EXCHANGE COMMISSION IS EFFECTIVE. THIS PROSPECTUS IS NOT AN OFFER TO SELL THESE SECURITIES AND IS NOT SOLICITING AN OFFER TO BUY THESE SECURITIES IN ANY STATE WHERE THE OFFER OR SALE IS NOT PERMITTED.

SUBJECT TO COMPLETION, DATED FEBRUARY 7, 2024

PRELIMINARY PROSPECTUS



CYCLACEL PHARMACEUTICALS, INC.

411,969 SHARES OF COMMON STOCK

ISSUABLE UPON EXERCISE OF OUTSTANDING WARRANTS

This prospectus relates to the proposed resale from time to time, by the selling security holders identified in this prospectus of up to 411,969 shares of Cyclacel Pharmaceuticals, Inc. (the "Company"), common stock, \$0.001 par value per share, which are issuable upon the exercise of certain outstanding warrants.

These shares will be resold from time to time by the entities or individuals listed in the section titled "Selling Security Holders" beginning on page 79, which we refer to as the selling security holders or Selling Stockholders. The shares of common stock offered under this prospectus by the selling security holders are issuable upon exercise of warrants (the "Private Warrants") issued pursuant to the Securities Purchase Agreement by and among the Company and the selling security holders, dated as of December 21, 2023 (the "Securities Purchase Agreement") and warrants (the "Placement Agent Warrants") issued pursuant to the Placement Agency Agreement by and among the Company and Ladenburg Thalmann & Co. Inc, dated as of December 21, 2023 (the "Placement Agency Agreement"). We are not selling any securities under this prospectus and will not receive any of the proceeds from the sale of securities by the selling security holders. However, the Company will receive the proceeds of any cash exercise of the Private Warrants and the Placement Agent Warrants. See "Use of Proceeds" beginning on page 44 of this prospectus for more information.

The selling security holders may sell the shares of common stock described in this prospectus in a number of different ways and at varying prices. We provide more information about how a selling security holder may sell its shares of common stock in the section titled "Plan of Distribution" on page 99. We will pay the expenses incurred in registering the securities covered by the prospectus, including legal and accounting fees.

Our common stock is traded on The Nasdaq Capital Market ("Nasdaq") under the symbol "CYCC". On February 5, 2024, the last reported sale price of our common stock was \$2.58 per share.

AN INVESTMENT IN OUR COMMON STOCK INVOLVES RISKS. SEE THE SECTION ENTITLED "RISK FACTORS" BEGINNING ON PAGE 7.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

The date of this prospectus is , 2024

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You should read this prospectus and any applicable prospectus supplement before making an investment in the securities of Cyclacel Pharmaceuticals, Inc. See “Where You Can Find More Information” for more information. You should rely only on the information contained in this prospectus or a prospectus supplement. The Company has not authorized anyone to provide you with different information. This document may be used only in jurisdictions where offers and sales of these securities are permitted. You should assume that information contained in this prospectus, or in any prospectus supplement, is accurate only as of any date on the front cover of the applicable document. Our business, financial condition, results of operations and prospects may have changed since that date. Unless otherwise noted in this prospectus, “Cyclacel Pharmaceuticals,” “Cyclacel,” “the Company,” “we,” “us,” “our” and similar terms refer to Cyclacel Pharmaceuticals, Inc.

Smaller Reporting Company - Scaled Disclosure

Pursuant to Item 10(f) of Regulation S-K promulgated under the Securities Act of 1933, as amended (the “Securities Act”), as indicated herein, we have elected to comply with the scaled disclosure requirements applicable to “smaller reporting companies,” including providing two years of audited financial statements.

PROSPECTUS SUMMARY

This summary highlights some information from this prospectus. It may not contain all the information important to making an investment decision. You should read the following summary together with the more detailed information regarding our Company and the securities being sold in this offering, including in the section titled "Risk Factors".

Business Overview

We are a clinical-stage biopharmaceutical company developing innovative cancer medicines based on cell cycle, transcriptional regulation, epigenetics and mitosis control biology. We are a pioneer company in the field of cancer cell cycle biology with a vision to improve patient healthcare by translating insights in cancer biology into medicines that can overcome resistance and ultimately increase a patient's overall survival. Our primary focus has been on our transcriptional regulation program, which is evaluating fadraciclib (or fadra), a CDK2/9 inhibitor, in solid tumors and lymphoma. Separately, our epigenetic/anti-mitotic program is evaluating plogosertib (or plogo), a PLK1 inhibitor, in solid tumors and lymphoma.

We are evaluating oral fadra and plogo in our Phase 1/2 streamlined studies, the aim of which is to assess safety and identify signals of clinical activity which may lead to registration-enabling outcomes.

Fadraciclib Phase 1/2 Study in Advanced Solid Tumors and Lymphoma (065-101; NCT#04983810)

In this ongoing study, a total of 29 patients have been treated as monotherapy. The study is enrolling unselected, all comorbid patients with advanced solid tumors and lymphoma. Six patients have been treated on dose level 6A (125mg twice daily for 5 days per week, 4 out of 4 weeks). The sixth patient on dose level 6A with pancreatic cancer and CDKN2A deletion enrolled on the study experienced dose-limiting toxicity (or DLT) of hyperglycemia. The patient, who has a diabetic profile history and was on metformin treatment, remains on study as blood glucose level was managed. A previous patient on dose level 6A with a pre-diabetic profile had DLT of hyperglycemia which also resolved rapidly.

The previous dose level 5 (100mg twice daily for 5 days per week, 4 out of 4 weeks) on this schedule accrued six patients with no DLT and per protocol is safe for continued development.

Dose level 6B (150mg once daily for 7 days per week, 4 out of 4 weeks) continues accrual with two patients treated, which are ongoing at three and five cycles of treatment.

To date in fadra studies, single agent activity, including complete response, partial response and stable disease, has been observed in patients with advanced endometrial, squamous non-small cell lung cancer and T-cell lymphoma. Encouraging signals of activity were observed in patients with advanced cervical, hepatocellular, ovarian and pancreatic cancers.

We believe that fadra's inhibition of CDK2 and CDK9 may be superior to inhibiting either CDK2 or CDK9 alone. Fadra tablets can be given orally with repeat dosing which has led to transient suppression of anti-apoptosis proteins with generally good tolerability and no Grade 3 or higher hematological toxicity in the first cycle.

The Phase 2 part of the 065-101 study is designed to further evaluate fadra safety and efficacy in up to eight cohorts defined by histology and/or next generation sequencing. The study is powered to demonstrate response in the molecular subtype suggested by the Phase 1 data and others that may be sensitive.

Plogosertib Phase 1/2 Study in Advanced Solid Tumors and Lymphoma (140-101; NCT#05358379)

In this ongoing study, 15 patients have been treated at five dose escalation levels with no dose limiting toxicities observed. The proof-of-concept stage includes seven mechanistically relevant cohorts including patients with bladder, breast, colorectal (including KRAS mutant), hepatocellular and biliary tract, and lung cancers (both small cell and non-small cell), as well as lymphomas. An additional basket cohort will enroll patients with biomarkers relevant to the drug's mechanism, including MYC amplified tumors. The protocol allows for expansion of individual cohorts based on response which may allow acceleration of the clinical development and registration plan for plogosertib.

We currently retain all marketing rights worldwide to the compounds associated with our drug programs.

Corporate Information

We were incorporated in Delaware in August 1997. Our corporate headquarters are located at 200 Connell Drive, Suite 1500, Berkeley Heights, New Jersey 07922, and our telephone number is 908-517-7330. Our employees are located in the United States and the United Kingdom.

We are a “smaller reporting company” as defined in Rule 12b-2 of the Securities Exchange Act of 1934, as amended, or the Exchange Act, and have elected to take advantage of certain of the scaled disclosure available for smaller reporting companies. As a result, the information that we provide may be different than you might receive from other public reporting companies in which you hold equity interests.

Our corporate website address is www.cyclacel.com. Our Annual Report on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K, and amendments to reports filed pursuant to Sections 13(a) and 15(d) of the Securities Exchange Act of 1934, as amended, are available free of charge on our website as soon as reasonably practicable after we electronically file such material with, or furnish it to, the Securities and Exchange Commission. The Securities and Exchange Commission maintains an internet site that contains our public filings with the Securities and Exchange Commission and other information regarding our company, at www.sec.gov. These reports and other information concerning our company may also be accessed at the Securities and Exchange Commission’s Public Reference Room at 100 F Street, NE, Washington, DC 20549. The public may obtain information on the operation of the Public Reference Room by calling the Securities and Exchange Commission at 1-800-SEC-0330. The contents of these websites are not incorporated into this prospectus. Further, our references to the URLs for these websites are intended to be inactive textual reference only.

Information contained in, or that can be accessed through, our website is not incorporated by reference into this prospectus, and you should not consider information on our website to be part of this prospectus. Our design logo, “Cyclacel,” and our other registered and common law trade names, trademarks, and service marks are the property of Cyclacel Pharmaceuticals, Inc.

The trademarks, trade names, and service marks appearing in this prospectus are the property of their respective owners. We do not intend our use or display of other companies’ trademarks, trade names, or service marks to imply a relationship with, or endorsement or sponsorship of us by, any other companies or products.

Reverse Stock Split

Effective at 5:00 p.m. Eastern Time on Friday, December 15, 2023, we effected a reverse stock split of our outstanding common stock (“Reverse Split”). As a result of the Reverse Split, each of our stockholders received one new share of common stock for every 15 shares such stockholder held immediately prior to the effective time of the Reverse Split. The Reverse Split affected all of our issued and outstanding shares of common stock equally. The Reverse Split also affected our outstanding stock options, warrants and other exercisable or convertible securities and resulted in the shares underlying such instruments being reduced and the exercise price being increased proportionately. No fractional shares were issued as a result of the Reverse Split. Any fractional shares that would have otherwise resulted from the Reverse Split was paid in cash, at an amount equal to the resulting fractional interest in one share of the common stock to which the stockholder would otherwise be entitled, multiplied by the closing trading price of our common stock on December 15, 2023.

Offering of Common Stock and Warrants

On December 21, 2023, we entered into the Securities Purchase Agreement with certain institutional investors (the “Purchasers”, and such agreement, the “Securities Purchase Agreement”), pursuant to which we agreed to issue and sell in a registered direct offering (the “Registered Direct Offering”) (i) an aggregate of 168,500 shares (the “Shares”) of common stock and (ii) pre-funded warrants (the “Pre-Funded Warrants”) to purchase up to 219,700 shares of common stock. Each Share was sold at an offering price of \$3.315 and each Pre-Funded Warrant was sold at an offering price of \$3.314 (equal to the purchase price per Share minus the exercise price of the Pre-Funded Warrant).

Pursuant to the Securities Purchase Agreement, in a concurrent private placement (together with the Registered Direct Offering, the “Offerings”), we also agreed to issue to the Purchasers unregistered warrants (“Private Warrants”) to purchase up to 388,200 shares of common stock. Each Private Warrant has an exercise price of \$3.19 per share, was exercisable immediately following their original issuance and will expire seven years from the original issuance date.

The Shares and the Pre-Funded Warrants were offered pursuant to an effective registration statement on Form S-3 (File No. 333- 274328), and a related prospectus supplement. The Private Warrants were sold in a concurrent private placement exempt from registration pursuant to Section 4(a) (2) and/or Rule 506 of the Securities Act. The offering closed on December 26, 2023. The gross proceeds were approximately \$1.29 million before deducting the placement agent fees and other offering expenses.

In connection with the Offerings, we agreed to pay the placement agent a cash fee equal to 8.0% of the aggregate gross proceeds raised in the Offerings and to reimburse the placement agent’s expenses up to an aggregate of \$85,000. In addition, the placement agent also received warrants (the “Placement Agent Warrants”) that have substantially the same terms as the Private Warrants to purchase an aggregate of 23,769 shares of our common stock, at an exercise price of \$4.14375 per share. The Placement Agent Warrants were exercisable immediately following the date of issuance and will expire five years after the date of issuance.

In a separate concurrent insider private placement (the “Insider Private Placement”), we also sold to certain of our officers 7,956 shares of common stock and Private Warrants to purchase up to an aggregate of 7,956 shares of common stock at a combined purchase price of \$3.315 per share of common stock and accompanying Private Warrant.

Summary of Principal Risk Factors

This summary briefly lists the principal risks and uncertainties facing our business, which are only a select portion of those risks. A more complete discussion of those risks and uncertainties is set forth in “Risk Factors”. Additional risks not presently known to us or that we currently deem immaterial may also affect us. If any of these risks occur, our business, financial condition or results of operations could be materially and adversely affected.

Our business is subject to the following principal risks and uncertainties:

Risks Associated with Development and Commercialization of Our Drug Candidates

- The cost, time, and possibility of delays associated with clinical trials, which may be required to continue beyond our available funding. We cannot be certain that we will be able to raise sufficient funds to complete the development and commercialize any of our product candidates currently in clinical development, should they succeed.
- We may suffer significant delays, setbacks or negative results in, or termination of, our clinical trials.
- We are making use of biomarkers, which are not scientifically validated, and our reliance on biomarker data may thus cause us to direct our resources inefficiently.
- We may be unable to directly control the timing, conduct and expense of our clinical trials, due to our reliance on contract research organizations and other third parties to conduct clinical trials.
- We have no manufacturing capacity and will rely on third party manufacturers for the late-stage clinical trials, development and commercialization of any drugs we may develop or sell.
- We may encounter difficulties in managing our growth and expanding our operations successfully as we evolve from a company primarily involved in discovery and development to one also involved in the commercialization of drugs and devices.
- Our drug candidates are subject to extensive regulation, which can be costly and time-consuming, and we may not obtain approvals for the commercialization of any of our drug candidates.
- Even if we successfully complete the clinical trials for one or more of our product candidates, the product candidates may fail for other reasons.
- We face intense competition and our competitors may develop drugs that are less expensive, safer, or more effective than our drug candidates.
- If we fail to enter into and maintain successful strategic alliances for our drug candidates, we may have to reduce or delay our drug candidate development or increase our expenditures.
- If our drug candidates or distribution partners’ products fail to achieve market acceptance, we may not be able to generate significant revenue and our business may suffer. Our business may be affected by the efforts of government and third-party payors to contain or reduce the cost of healthcare through various means.

- We face potential product liability exposure, and if successful claims are brought against us, we may incur substantial liability for a product candidate and may have to limit its commercialization.
- We may be subject to numerous and varying privacy and security laws, and our failure to comply could result in penalties and reputational damage.

Risks Related to Our Business and Financial Condition

- We have a history of operating losses and we may never become profitable. Our stock is a highly speculative investment.
- There is substantial doubt regarding our ability to continue as a going concern. We will need to raise additional capital in upcoming periods which may not be available to us on reasonable terms, if at all.
- Unstable market and economic conditions may have serious adverse consequences on our business, financial condition and stock price.
- If we fail to comply with the continued listing requirements of the Nasdaq Capital Market, our common stock may be delisted and the price of our common stock and our ability to access the capital markets could be negatively impacted.
- Funding constraints may negatively impact our research and development activities, forcing us to delay our efforts to develop certain product candidates in favor of developing others, which may prevent us from commercializing our product candidates as quickly as possible.
- Our business has been and may continue to be adversely affected by the ongoing coronavirus pandemic.
- We are experiencing an increasingly tight and competitive labor market with an increase in employee turnover rates and higher compensation and hiring costs. This may have an adverse effect on our ability to attract and retain skilled personnel and may harm our business.

Risks Related to our Intellectual Property

- If we fail to enforce adequately or defend our intellectual property rights, our business may be harmed.
- We may incur substantial costs as a result of litigation or other proceedings relating to patent and other intellectual property rights.

Risks Related to Securities Regulations and Investment in Our Securities

- Failure to achieve and maintain internal controls in accordance with Sections 302 and 404 of the Sarbanes-Oxley Act of 2002 could have a material adverse effect on our business and stock price.
- We incur increased costs and management resources as a result of being a public company, and we may fail to comply with public company obligations.
- We may have limited ability to pay cash dividends on our preferred stock, and there is no assurance that future quarterly dividends will be declared.
- The future sale of our common and convertible preferred stock and future issuances of our common stock upon conversion of our preferred stock could negatively affect our stock price and cause dilution to existing holders of our common stock.
- The number of shares of common stock which are registered, including the shares to be issued upon exercise of our outstanding warrants, is significant in relation to our currently outstanding common stock and could cause downward pressure on the market price for our common stock.
- Our management team will have broad discretion over the use of the net proceeds from any sale of our securities.
- We have restated our previously issued consolidated financial statements and, as part of that process, have identified a material weakness in our internal control over financial reporting as of December 31, 2022. If we are unable to develop and maintain effective internal control over financial reporting, we may not be able to accurately report our financial results in a timely manner. We may also face litigation and other risks as a result of the restatement.

THE OFFERING

Issuer	Cyclacel Pharmaceuticals, Inc.
Common stock offered by the selling security holders	411,969 shares issuable upon exercise of (i) warrants to purchase up to an aggregate of 388,200 shares of our common stock issued pursuant to the Securities Purchase Agreement (which warrants have an exercise price of \$3.19 and will be exercisable immediately following their original issuance and will expire seven years from the original issuance date) and (ii) warrants to purchase up to an aggregate of 23,769 shares of our common stock issued pursuant to the Placement Agency Agreement (which warrants have an exercise price of \$4.14375 per share and were exercisable immediately following their original issuance and will expire five years after their original issuance date).
Terms of offering	The selling security holders and any of their pledgees, assignees and successors-in-interest may, from time to time, sell any or all of their shares covered hereby on Nasdaq or any other stock exchange, market or trading facility on which the shares are traded or in private transactions. These sales may be at fixed or negotiated prices. See “Plan of Distribution.”
Common stock to be outstanding after this offering	1,318,257 shares
Use of proceeds	We will not receive any of the proceeds from the sale of our common stock by the selling security holders pursuant to this prospectus. However, we will receive the proceeds of any cash exercise of the Private Warrants. If all of the Private Warrants were exercised for cash, we would receive aggregate proceeds of approximately \$1.24 million. If we receive proceeds, we currently intend to use the proceeds for general corporate purposes, including working capital.
Nasdaq Capital Market symbol	CYCC
Risk factors	Investing in our securities involves a high degree of risk. See “Risk Factors” on page 7 of this prospectus to read about factors that you should consider carefully before buying our securities.

The number of shares of our common stock to be outstanding immediately after this offering as shown above is based on 1,058,892 shares of common stock outstanding as of December 31, 2023, and excludes:

- 145,446 shares of common stock issuable upon the exercise of options outstanding as of December 31, 2023 at a weighted average exercise price of \$58.97 per share;
- 34,798 shares of common stock issuable upon vesting of restricted stock units outstanding as of December 31, 2023 at a weighted average exercise price of \$16.24 per share;
- 22,466 shares of common stock reserved for future issuance under our equity incentive plan as of December 31, 2023;
- 5,333 shares of common stock reserved for future issuance under our inducement equity incentive plan as of December 31, 2023;
- 619,717 shares of common stock issuable upon the exercise of warrants outstanding as of December 31, 2023 at a weighted-average exercise price of \$46.92 per share;
- 440 shares of common stock issuable upon the conversion of 264 shares of our Series A Convertible Preferred Stock, par value \$0.001 per share, outstanding as of December 31, 2023;

- 5 shares of common stock issuable upon the conversion of 335,273 shares of our 6% Convertible Exchangeable Preferred Stock, par value \$0.001 per share, outstanding as of December 31, 2023;
- 39,666 shares of common stock issuable upon the conversion of 119,000 shares of our Series B Convertible Preferred Stock, par value \$0.001 per share, outstanding as of December 31, 2023; and
- 219,700 shares of common stock issuable upon exercise of the Pre-Funded Warrants held by the selling securityholders.

Except as otherwise indicated, all information in this prospectus assumes no exercise of the outstanding options or warrants described above.

RISK FACTORS

Investing in our securities involves a high degree of risk. Before deciding whether to invest in our securities, you should consider carefully the risks and uncertainties discussed below. The risks described below are not the only ones we face, but those that we consider to be material. There may be other unknown or unpredictable economic, business, competitive, regulatory or other factors that could have material adverse effects on our future results. Past financial performance may not be a reliable indicator of future performance, and historical trends should not be used to anticipate results or trends in future periods. If any of these risks actually occurs, our business, financial condition, results of operations or cash flow could be seriously harmed. This could cause the trading price of our common stock to decline, resulting in a loss of all or part of your investment. Please also read carefully the section herein titled "Special Note Regarding Forward-Looking Statements" on page 43.

Risks Associated with Development and Commercialization of Our Drug Candidates

Clinical trials are expensive, time consuming, subject to delay and may be required to continue beyond our available funding and we cannot be certain that we will be able to raise sufficient funds to complete the development and commercialize any of our product candidates currently in clinical development, should they succeed.

Clinical trials may also have uncertain outcomes. We estimate that clinical trials of our most advanced drug candidates may be required to continue beyond our available funding and may take several more years to complete. The designs used in some of our trials have not been used widely by other pharmaceutical companies. We cannot guarantee that any clinical trials we undertake to conduct will be conducted as planned or completed on schedule or at all. Failure can occur at any stage of the testing and we may experience numerous unforeseen events during, or as a result of, the clinical trial process that could delay or prevent commercialization of our current or future drug candidates, including, but not limited to:

- delays in securing clinical investigators or trial sites for our clinical trials;
- delays in obtaining institutional review board, or IRB, and regulatory approvals to commence a clinical trial;
- failure to obtain regulatory authority permission to conduct a clinical trial, after review of an investigational new drug or equivalent foreign application or amendment;
- slower than anticipated rates of subject recruitment and enrollment, or not reaching the targeted number of subjects because of competition for patients from other trials;
- negative or inconclusive results from clinical trials, as demonstrated by our announcement on February 24, 2017 that our SEAMLESS Phase 3 study failed to reach its primary endpoint;
- inability to generate satisfactory preclinical or other nonclinical data, including, toxicology, or other *in vivo* or *in vitro* data or diagnostics to support the initiation or continuation of clinical trials;
- unforeseen safety issues;
- failure by clinical sites or contract research organizations, or CROs, or other third parties to adhere to clinical trial requirements, GCP, or other applicable regulatory requirements;
- subjects discontinuing participating in our clinical trials at a greater than expected rate;

- imposition by the FDA of a clinical hold or the requirement by other similar regulatory agencies that one or more clinical trials be delayed or halted;
- uncertain dosing issues that may or may not be related to incompletely explored pharmacokinetic and pharmacodynamics behaviors;
- approval and introduction of new therapies or changes in standards of practice or regulatory guidance that render our clinical trial endpoints or the targeting of our proposed indications less attractive;
- inability to monitor patients adequately during or after treatment or problems with investigator or patient compliance with the trial protocols;
- inability to replicate in large, controlled studies safety and efficacy data obtained from a limited number of patients in uncontrolled trials;
- the ultimate affordability of the cost of clinical trials of our product candidates;
- changes in regulatory requirements and guidance that require amending or submitting new clinical protocols or performing additional nonclinical studies; and
- unavailability of clinical trial supplies.

In addition, Congress recently amended the FDCA to require sponsors of a Phase 3 clinical trial, or other “pivotal study” of a new drug to support marketing authorization, to design and submit a diversity action plan for such clinical trial. The action plan must describe appropriate diversity goals for enrollment, as well as a rationale for the goals and a description of how the sponsor will meet them. Although none of our product candidates has reached Phase 3 of clinical development, we must submit a diversity action plan to the FDA by the time we submit a Phase 3 trial, or pivotal study, protocol to the agency for review, unless we are able to obtain a waiver for some or all of the requirements for a diversity action plan. It is unknown at this time how the diversity action plan may affect the planning and timing of any future Phase 3 trial for our product candidates or what specific information FDA will expect in such plans. However, initiation of such trials may be delayed if the FDA objects to our proposed diversity action plans for any future Phase 3 trial for our product candidates, and we may experience difficulties recruiting a diverse population of patients in attempting to fulfill the requirements of any approved diversity action plan.

Any inability to successfully complete clinical development and obtain regulatory approval for our product candidates could result in additional costs to us or impair our ability to generate revenue. In addition, if we make manufacturing or formulation changes to our product candidates, we may need to conduct additional nonclinical studies and/or clinical trials, or the results obtained from such new formulation may not be consistent with previous results obtained. Clinical trial delays could also shorten any anticipated periods of patent exclusivity for our product candidates and may allow competitors to develop and bring products to market before we do which could impair our ability to successfully commercialize our product candidates and may harm our business and results of operations.

If we experience delays or difficulties in the enrollment of research subjects in clinical trials, those clinical trials could take longer than expected to complete and our receipt of necessary regulatory approvals could be delayed or prevented.

We may not be able to initiate or continue clinical trials for our drug candidates if we are unable to locate and enroll a sufficient number of research subjects to participate in these trials. In particular, for some diseases and conditions we are or will be focusing on, our pool of suitable patients may be smaller and more selective and our ability to enroll a sufficient number of suitable patients may be limited or take longer than anticipated. In addition, some of our competitors have ongoing clinical trials for drug candidates that treat the same indications as our drug candidates, and volunteers or patients who would otherwise be eligible for our clinical trials may instead enroll in clinical trials of our competitors’ drug candidates.

Patient enrollment for any of our clinical trials may also be affected by other factors, including without limitation:

- the size and nature of the target patient population;
- the severity of the disease under investigation;
- the subject eligibility criteria for the clinical trial in question;
- our ability to recruit clinical trial investigators with the appropriate competencies and experience;
- the perceived risks and benefits of the drug candidate under study in the clinical trial;
- the approval and availability of other therapies to treat the disease or disorder that is being investigated in the clinical trial;
- the extent of the efforts to facilitate timely enrollment in clinical trials;
- the patient referral practices of physicians;
- the ability to monitor volunteers or subjects adequately during and after treatment;
- the presence of other drug candidates in clinical development for the same indication or against the same target; and
- the proximity and availability of clinical trial sites for prospective subjects.

In addition, our clinical trials will compete with other clinical trials for product candidates that are in the same therapeutic areas as our product candidates, and this competition will reduce the number and types of patients available to us, because some patients who might have opted to enroll in our trials may instead opt to enroll in a trial being conducted by one of our competitors. Because the number of qualified clinical investigators is limited, we may conduct some of our clinical trials at the same clinical trial sites that some of our competitors use, which will reduce the number of patients who are available for our clinical trials at such clinical trial sites. Moreover, because our product candidates represent a departure from more commonly used methods for cancer treatment, potential patients and their doctors may be inclined to use conventional therapies rather than enroll patients in any future clinical trial.

Our inability to enroll a sufficient number of subjects for our clinical trials would result in significant delays and could require us to abandon one or more clinical trials altogether. Enrollment delays in our clinical trials may result in increased development costs for our drug candidates, and we may not have or be able to obtain sufficient cash to fund such increased costs when needed, which could result in the further delay or termination of clinical trials.

The outcome of preclinical testing and early clinical trials may not be predictive of the success of later clinical trials, and the results of our clinical trials may not satisfy the requirements of the FDA or comparable foreign regulatory authorities.

We currently have no products approved for sale and we cannot guarantee that we will ever have marketable products. Clinical failure can occur at any stage of clinical development. Clinical trials may produce negative or inconclusive results, and we or any future collaborators may decide, or regulatory authorities may require us, to conduct additional clinical trials or nonclinical studies. We will be required to demonstrate with substantial evidence through well-controlled, adequate clinical trials that our product candidates are safe and effective for use in a diverse population before we can seek marketing approvals for their commercial sale. Success in preclinical studies and early-stage clinical trials does not mean that future larger registration clinical trials will be successful. This is because product candidates in later-stage clinical trials may fail to demonstrate sufficient safety and efficacy to the satisfaction of the FDA and comparable foreign regulatory authorities despite having progressed through nonclinical studies and early-stage clinical trials.

From time to time, we may publish or report interim or preliminary data from our clinical trials. Interim or preliminary data from clinical trials that we may conduct may not be indicative of the final results of such trials and are subject to the risk that one or more of the clinical outcomes may materially change as subject enrollment continues and more data from the trials become available. Interim or preliminary data also remain subject to audit and verification procedures that may result in the final data being materially different from the interim or preliminary data. As a result, interim or preliminary data should be viewed with caution until the final data are available.

We are making use of biomarkers, which are not scientifically validated, and our reliance on biomarker data may thus cause us to direct our resources inefficiently.

We are making use of biomarkers in an effort to facilitate our drug development and to optimize our clinical trials. Biomarkers are proteins or other substances whose presence in the blood can serve as an indicator of specific cell processes. We believe that these biological markers serve a useful purpose in helping us to evaluate whether our drug candidates are having their intended effects through their assumed mechanisms, and that they may thus enable us to identify more promising drug candidates at an early stage and to direct our resources efficiently. We also believe that biomarkers may eventually allow us to improve patient selection in connection with clinical trials and monitor patient compliance with trial protocols.

For most purposes, however, the biomarkers we are currently evaluating have not been scientifically validated. If our understanding and use of biomarkers is inaccurate or flawed, or if our reliance on them is otherwise misplaced, then we will not only fail to realize any benefits from using biomarkers but may also be led to invest time and financial resources inefficiently in attempting to develop inappropriate drug candidates. Moreover, although the FDA has issued for comment a draft guidance document on the potential use of biomarker data in clinical development, such data are not currently accepted by the FDA or other regulatory agencies in the United States, the European Union or elsewhere in applications for regulatory approval of drug candidates, and there is no guarantee that such data will ever be accepted by the relevant authorities in this connection. Our biomarker data should not be interpreted as evidence of efficacy.

The review processes of regulatory authorities are lengthy, time consuming, expensive and inherently unpredictable. If we are unable to obtain approval for our drug candidates from applicable regulatory authorities, we will not be able to market and sell those drug candidates in those countries or regions and our business could be substantially harmed.

The research, testing, manufacturing, labeling, approval, sale, marketing and distribution of drug products are, and will remain, subject to extensive regulation by the FDA in the United States and by the respective regulatory authorities in other countries where regulations differ. We are not permitted to market our product candidates in the United States until we receive the respective approval of an NDA from the FDA, or in any foreign countries until we receive the requisite approval from the respective regulatory authorities in such countries. The time required to obtain approval, if any, by the FDA, EMA and comparable foreign authorities is unpredictable, but typically takes many years following the commencement of clinical trials, if approval is obtained at all, and depends upon numerous factors, including the substantial discretion of the regulatory authorities and the type, complexity and novelty of the product candidates involved. 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 nonclinical studies or clinical trials. We have not submitted a marketing application such as an NDA to the FDA, an MAA to the EMA or any similar application to any other jurisdiction. We have limited experience in planning and conducting the clinical trials required for marketing approvals, and we have relied, and expect to continue to rely, on third-party CROs to assist us in this process. Obtaining marketing approval requires the submission of extensive nonclinical and clinical data and supporting information to regulatory authorities for each therapeutic indication to establish the product candidate's safety and effectiveness. Securing marketing approval also requires the submission of information about the product manufacturing process, and in many cases the inspection of manufacturing, processing and packaging facilities by the regulatory authorities. Our product candidates 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 preclude our obtaining marketing approval or prevent or limit commercial use, or there may be deficiencies in cGMP compliance by us or by our contract manufacturers that could result in the candidate not being approved. Moreover, we have not obtained regulatory approval for any drug candidate in any jurisdiction and it is possible that none of our existing drug candidates or any drug candidates we may seek to develop in the future will ever obtain regulatory approval.

Our drug candidates could fail to receive, or could be delayed in receiving, regulatory approval for many reasons, including any one or more of the following:

- the FDA, EMA 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, EMA or comparable foreign regulatory authorities that a drug candidate 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, EMA or comparable foreign regulatory authorities for approval;
- we may be unable to demonstrate that a drug candidate's clinical and other benefits outweigh its safety risks;
- the FDA, EMA 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 our drug candidates may not be sufficient to support the submission of an NDA or other submission or to obtain regulatory approval in the United States or elsewhere;
- upon review of our clinical trial sites and data, the FDA or comparable foreign regulatory authorities may find our record keeping or the record keeping of our clinical trial sites to be inadequate;
- the manufacturing processes or facilities of third-party manufacturers with which we contract for clinical and commercial supplies may fail to meet the requirements of the FDA, EMA or comparable foreign regulatory authorities;
- the FDA, EMA or comparable foreign regulatory authorities may fail to approve the companion diagnostics we contemplate developing internally or with partners; and
- the change of the medical standard of care or the approval policies or regulations of the FDA, EMA or comparable foreign regulatory authorities may significantly change in a manner that renders our clinical data insufficient for approval.

The time and expense of the approval process, as well as the unpredictability of future clinical trial results and other contributing factors, may result in our failure to obtain regulatory approval to market any of our product candidates in one or more jurisdictions, which would significantly harm our business, results of operations and prospects. In such case, we may also not have the resources to conduct new clinical trials and/or we may determine that further clinical development of any such drug candidate is not justified and may discontinue any such programs.

In addition, even if we were to obtain regulatory approval in one or more jurisdictions, regulatory authorities may approve any of our drug candidates for fewer or more limited indications than we request, may not approve prices we may propose to charge for our products, may grant approval contingent on the performance of costly post-marketing clinical trials (referred to as "conditional" or "accelerated" approval depending on the jurisdiction), or may approve a drug candidate with a label that does not include the labeling claims necessary or desirable for the successful commercialization of that drug candidate. Any of the foregoing circumstances could materially harm the commercial prospects for our drug candidates.

Our product candidates may cause undesirable side effects that could delay or prevent their marketing approval, limit their commercial potential, or result in significant negative consequences following marketing approval, if marketing approval is obtained.

Undesirable side effects caused by our product candidates could cause us or the FDA or other regulatory authorities to interrupt, delay or halt our clinical trials and could result in a more restrictive label or the delay or denial of marketing approval by the FDA or other regulatory authorities of our product candidates. In the event that our clinical trials produce undesirable side effects, 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 candidates for any or all targeted indications. In addition to this, the product-related side effects could affect patient recruitment or the ability of enrolled patients to complete the trial or result in potential product liability claims.

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 our product candidates may only be uncovered with a significantly larger number of patients exposed to the product candidate. If our product candidates receive marketing approval and we or others identify undesirable side effects caused by such product candidates (or any other similar products) after such approval, a number of potentially significant negative consequences could result, including:

- regulatory authorities may withdraw or limit their approval of such product candidates;
- regulatory authorities may require the addition of labeling statements, specific warnings or a contraindication;
- we may be required to create a medication guide outlining the risks of such side effects for distribution to patients, or we may be required to implement a REMS to ensure that the benefits of the product outweigh the risks;
- we may be required to change the way such product candidates are distributed or administered, or change the labeling of the product candidates;
- we may be subject to regulatory investigations and government enforcement actions;
- the FDA or a comparable foreign regulatory authority may require us to conduct additional clinical trials or costly post-marketing testing and surveillance to monitor the safety and efficacy of the product;
- we may decide to recall such product candidates from the marketplace after they are approved;
- we could be sued and held liable for injury caused to individuals exposed to or taking our product candidates; and
- our reputation may suffer.

Any of these events could prevent us from achieving or maintaining market acceptance of the affected product candidates and could substantially increase the costs of commercializing our product candidates, if approved, and significantly impact our ability to successfully commercialize our product candidates and generate revenues.

As we evolve from a company primarily involved in discovery and development to one also involved in the commercialization of drugs and devices, we may encounter difficulties in managing our growth and expanding our operations successfully.

In order to execute our business strategy, we will need to expand our development, control and regulatory capabilities and develop financial, manufacturing, marketing and sales capabilities or contract with third parties to provide these capabilities for us. If our operations expand, we expect that we will need to manage additional relationships with various collaborative partners, suppliers and other third parties. Our ability to manage our operations and any growth will require us to make appropriate changes and upgrades, as necessary, to our operational, financial and management controls, reporting systems and procedures wherever we may operate. Any inability to manage growth could delay the execution of our business plan or disrupt our operations.

Our applications for regulatory approval could be delayed or denied due to problems with studies conducted before we in-licensed the rights to some of our product candidates.

We may now or in the future license some of the compounds and drug candidates used in our research programs from third parties. Our present research involving these compounds relies upon previous research conducted by third parties over whom we had no control and before we in-licensed the drug candidates. In order to receive regulatory approval of a drug candidate, we must present all relevant data and information obtained during our research and development, including research conducted prior to our licensure of the drug candidate. Although we are not currently aware of any such problems, any problems that emerge with preclinical research and testing conducted prior to our in-licensing may affect future results or our ability to document prior research and to conduct clinical trials, which could delay, limit or prevent regulatory approval for our drug candidates.

Even if we obtain regulatory approval for a product candidate, we will remain subject to ongoing regulatory requirements.

If any of our product candidates are approved for marketing, we will be subject to ongoing regulatory requirements, including with respect to manufacturing, labeling, packaging, storage, advertising, promotion, sampling, record-keeping, conduct of post-marketing clinical trials, and submission of safety, efficacy and other post-approval information, including both federal and state requirements in the United States and requirements of comparable foreign regulatory authorities.

Manufacturers and manufacturers' facilities are required to continuously comply with FDA and comparable foreign regulatory authority requirements, including ensuring that quality control and manufacturing procedures conform to cGMP regulations and corresponding foreign regulatory manufacturing requirements. As such, we and our contract manufacturers will be subject to continual review and inspections to assess compliance with cGMP and adherence to commitments made in any marketing application. Accordingly, we and others with whom we work must continue to expend time, money, and effort in all areas of regulatory compliance, including manufacturing, production, and quality control.

Any regulatory approvals that we receive for our product candidates may be subject to limitations on the approved indicated uses for which the product may be marketed or to the conditions of approval, or contain requirements for potentially costly post-marketing testing, including Phase 4 clinical trials, and surveillance to monitor the safety and efficacy of the product candidate. The FDA may also require a REMS program as a condition of approval of our product candidates, which could entail requirements for long-term patient follow-up, a medication guide, physician communication plans or additional elements to ensure safe use, such as restricted distribution methods, patient registries and other risk minimization tools. In addition, if the FDA or a comparable foreign regulatory authority approves our product candidates, we will have to comply with requirements including submissions of safety and other post-marketing information and reports, registration, as well as continued compliance with cGMP and GCP for any clinical trials that we conduct post-approval.

The FDA strictly regulates marketing, labeling, advertising, and promotion of products that are placed on the market. Drugs may be promoted only for the approved indications and in accordance with the provisions of the approved label. 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.

Failure to comply with regulatory requirements, may result in revisions to the approved labeling to add new safety information; imposition of post-market studies or clinical studies to assess new safety risks; or imposition of distribution restrictions 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.

The policies of the FDA and of other regulatory authorities may change and additional government regulations may be enacted that could prevent, limit or delay regulatory approval of our product candidates. We cannot predict the likelihood, nature or extent of government regulation that may arise from future legislation or administrative action, either in the United States or abroad. 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 and we may not achieve or sustain profitability.

Obtaining and maintaining marketing approval of our current and future product candidates in one jurisdiction does not mean that we will be successful in obtaining marketing approval of our current and future therapeutic product candidates in other jurisdictions.

Obtaining and maintaining marketing approval of our current and future product candidates in one jurisdiction does not guarantee that we will be able to obtain or maintain marketing approval in any other jurisdiction, while a failure or delay in obtaining marketing approval in one jurisdiction may have a negative effect on the marketing approval process in others. For example, even if the FDA grants marketing approval of a product candidate, comparable foreign regulatory authorities in foreign jurisdictions must also approve the manufacturing, marketing and promotion of the product candidate in those countries. 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 nonclinical studies or clinical trials in the event that certain nonclinical studies or clinical trials conducted in one jurisdiction are not accepted by regulatory authorities in other jurisdictions. In many jurisdictions outside the United States, a product candidate must be approved for reimbursement before it can be approved for sale in that jurisdiction. In some cases, the price that we intend to charge for our future products will also be subject to approval.

We may submit marketing applications in other countries in addition to the United States. Regulatory authorities in jurisdictions outside of the United States have requirements for approval of product candidates with which we must comply prior to marketing in those jurisdictions. 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 products 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 candidates will be harmed.

Even if we successfully complete the clinical trials for one or more of our product candidates, the product candidates may fail for other reasons.

Even if we successfully complete the clinical trials for one or more of our product candidates, the product candidates may fail for other reasons, including, without limitation, the possibilities that the product candidates will:

- fail to receive the regulatory approvals required to market them as drugs;
- be subject to proprietary rights held by others requiring the negotiation of a license agreement prior to marketing;
- be difficult or expensive to manufacture on a commercial scale;
- have adverse side effects that make their use less desirable; or
- fail to compete effectively with product candidates or other treatments commercialized by our competitors.

If we are unable to receive the required regulatory approvals, secure our intellectual property rights, minimize the incidence of any adverse side effects or if we fail to compete with our competitors' products, our business, financial condition, and results of operations may be materially and adversely affected.

We face intense competition and our competitors may develop drugs that are less expensive, safer, or more effective than our drug candidates.

A large number of drug candidates are in development for the treatment of leukemia, solid tumors including breast, endometrial/uterine and ovarian cancers and lymphomas. Several pharmaceutical and biotechnology companies have CDK inhibitors, PLK1 inhibitors or other products on the market or in clinical trials which may be competitive to our drugs in both hematological and oncology indications. Our competitors, either alone or together with collaborators, may have substantially greater financial resources and research and development staff. Our competitors may also have more experience:

- developing drug candidates;
- conducting preclinical and clinical trials;
- obtaining regulatory approvals; and
- commercializing product candidates.

Our competitors may succeed in obtaining patent protection and regulatory approval and may market drugs before we do. If our competitors market drugs that are less expensive, safer, more effective or more convenient to administer than our potential drugs, or that reach the market sooner than our potential drugs, we may not achieve commercial success. Scientific, clinical or technical developments by our competitors may render our drug candidates obsolete or noncompetitive. We anticipate that we will face increased competition in the future as new companies enter the markets and as scientific developments progress. If our drug candidates obtain regulatory approvals, but do not compete effectively in the marketplace, our business will suffer.

Our future product candidates for which we obtain approval may face competition sooner than anticipated.

Even if we are successful in achieving regulatory approval to commercialize a product candidate ahead of our competitors, our future pharmaceutical products may face direct competition from generic and other follow-on drug products. Any of our product candidates that may achieve regulatory approval in the future may face competition from follow-on products earlier or more aggressively than anticipated, depending upon how well such approved products perform in the U.S. prescription drug market. Our ability to compete may also be affected in many cases by insurers or other third-party payors seeking to encourage the use of generic products.

The Hatch-Waxman Amendments to the FDCA authorized the FDA to approve generic drugs that are the same as drugs previously approved for marketing under the NDA provisions of the statute pursuant to ANDAs and, in addition, created the Section 505(b)(2) NDA pathway. An ANDA relies on the preclinical and clinical testing conducted for a previously approved reference listed drug and must demonstrate to the FDA that the generic drug product is identical to the RLD with respect to the active ingredients, the route of administration, the dosage form, and the strength of the drug and also that it is “bioequivalent” to the reference listed drug. In contrast, Section 505(b)(2) enables the applicant to rely, in part, on the FDA’s prior findings of safety and efficacy data for an existing product, or published literature, in support of its application. Section 505(b)(2) provides an alternate path to FDA approval for new or improved formulations or new uses of previously approved products; for example, a follow-on applicant 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. Such products, if approved and depending upon the scope of the changes made to the reference drug, may also compete with any product candidates for which we receive approval.

The FDA is prohibited by statute from approving an ANDA or 505(b)(2) NDA when certain marketing or data exclusivity protections apply to the reference listed drug. However, if any competitor or third party is able to demonstrate bioequivalence without infringing our patents, then such competitor or third party may then be able to gain approval of an ANDA and introduce a competing generic product onto the market.

Furthermore, the CREATES Act established a private cause of action that permits a generic product developer to sue the brand manufacturer to compel it to furnish necessary samples of an RLD on “commercially reasonable, market-based terms.” If generic developers request samples of any product candidates for which we receive marketing approval in order to conduct comparative testing to support one or more ANDAs for a generic version of our products, and we refuse any such request, we may be subject to litigation under the CREATES Act. Although lawsuits have been filed under the CREATES Act since its enactment, those lawsuits have settled privately; therefore, to date, no federal court has reviewed or opined on the statutory language and there continues to be uncertainty regarding the scope and application of the law.

We cannot predict the interest of potential follow-on competitors or how quickly others may seek to come to market with competing products, whether approved as a direct ANDA competitor or as a Section 505(b)(2) NDA referencing one of our future product candidates. If the FDA approves generic versions of any of our products in the future, should they be approved for commercial marketing, such competitive products may be able to immediately compete with us in each indication for which our product has received approval, which could negatively impact our future revenue, profitability and cash flows and substantially limit our ability to obtain a return on our investments.

The commercial success of our drug candidates depends upon their market acceptance among physicians, patients, healthcare providers and payors and the medical community.

If our drug candidates are approved, or are approved by the FDA or EMA, together with another agent such as decitabine, the resulting drugs, if any, must still gain market acceptance among physicians, healthcare providers and payors, patients and the medical community. The degree of market acceptance of any of our approved drugs will depend on a variety of factors, including:

- timing of market introduction, number and clinical profile of competitive drugs;
- our ability to provide acceptable evidence of safety and efficacy;
- relative convenience and ease of administration;
- pricing and cost-effectiveness, which may be subject to regulatory control;
- availability of coverage, reimbursement and adequate payment from health maintenance organizations and other third-party payors; and
- prevalence and severity of adverse side effects; and other potential advantages over alternative treatment methods.

If any product candidate that we develop does not provide a treatment regimen that is at least as beneficial as the current standard of care or otherwise does not provide some additional patient benefit over the current standard of care, that product will not achieve market acceptance and we will not generate sufficient revenues to achieve profitability.

If our drug candidates or distribution partners' products fail to achieve market acceptance, we may not be able to generate significant revenue and our business would suffer, and our business may be affected by the efforts of government and third-party payors to contain or reduce the cost of healthcare through various means.

Reimbursement decisions by third-party payors may have an adverse effect on pricing and market acceptance. If there is not sufficient reimbursement for our products, it is less likely that they will be widely used. Market acceptance and sales of our product candidates that we develop, if approved, will depend on reimbursement policies, and may be affected by future healthcare reform measures. Government authorities and third-party payors, such as private health insurers and health maintenance organizations, decide which drugs they will cover and establish payment levels. We cannot be certain that reimbursement will be available for our product candidates that we develop. Also, we cannot be certain that reimbursement policies will not reduce the demand for, or the price paid for, our products. If reimbursement is not available or is available on a limited basis, we may not be able to successfully commercialize any of our product candidates.

Even if we succeed in bringing one or more products to the market, these products may not be considered medically necessary and/or cost-effective, and the amount reimbursed for any products may be insufficient to allow us to sell our products on a competitive basis. At this time, we are unable to determine their cost effectiveness or the likely level or method of reimbursement for our product candidates. Increasingly, third-party payors, such as government and private insurance plans, are requiring that biopharmaceutical companies provide them with predetermined discounts from list prices, and are seeking to reduce the prices charged or the amounts paid for biopharmaceutical products. If the price we are able to charge for any products we develop, or the payments provided for such products, is inadequate in light of our development and other costs, our return on investment could be adversely affected.

Discussions continue at the federal level regarding policies that would require manufacturers to pay higher rebates in Medicare Part D, give states more flexibility on drugs that are covered under the Medicaid program, and other policy proposals that could impact reimbursement for our products. The efforts of governments and third-party payors to contain or reduce the cost of health care and legislative and regulatory proposals to broaden the availability of health care will continue to affect the business and financial condition of pharmaceutical and biopharmaceutical companies. A number of legislative and regulatory changes in the health care system in the United States and other major health care markets have been proposed and/or adopted in the recent past, and such efforts have expanded substantially in the past several years.

Our business may be affected by the efforts of government and third-party pairs to contain or reduce the cost of healthcare through various means.

The failure to attract and retain skilled personnel and key relationships could impair our drug development and commercialization efforts.

We are highly dependent on our senior management and key clinical development, scientific and technical personnel. The loss of the services of any member of our senior management, clinical development, scientific or technical staff may significantly delay or prevent the achievement of drug development and other business objectives and could have a material adverse effect on our business, operating results and financial condition. We also rely on consultants and advisors to assist us in formulating our strategy. All of our consultants and advisors are either self-employed or employed by other organizations, and they may have conflicts of interest or other commitments, such as consulting or advisory contracts with other organizations, that may affect their ability to contribute to us. We intend to expand and develop new drug candidates. We will need to hire additional employees in order to continue our clinical trials and market our drug candidates. This strategy will require us to recruit additional executive management and clinical development, scientific, technical and sales and marketing personnel. There is currently intense competition for skilled executives and employees with relevant clinical development, scientific, technical and sales and marketing expertise, and this competition is likely to continue. The inability to attract and retain sufficient clinical development, scientific, technical and managerial personnel could limit or delay our product development efforts, which would adversely affect the development of our drug candidates and commercialization of our potential drugs and growth of our business.

We are experiencing an increasingly tight and competitive labor market and could face unforeseen challenges in the availability of labor, such as we have experienced since the outbreak of COVID-19. A sustained labor shortage or increased turnover rates within our employee base as a result of general macroeconomic factors have led and in the future could lead to increased costs, such as increased overtime to meet demand and increased wages to attract and retain employees. We have also been negatively affected and could continue to be negatively affected by labor shortages or constraints experienced by our partners. Failure to achieve and maintain a diverse workforce and leadership team, compensate our employees competitively and fairly, maintain a safe and inclusive environment or promote the well-being of our employees could affect our reputation and also result in lower performance and an inability to retain valuable employees.

We may be exposed to product liability claims that may damage our reputation and we may not be able to obtain adequate insurance.

Because we conduct clinical trials in humans, we face the risk that the use of our drug candidates will result in adverse effects. We believe that we have obtained reasonably adequate product liability insurance coverage for our trials. We cannot predict, however, the possible harm or side effects that may result from our clinical trials. Such claims may damage our reputation and we may not have sufficient resources to pay for any liabilities resulting from a claim excluded from, or beyond the limit of, our insurance coverage or if the amount of the insurance coverage is insufficient to meet any liabilities resulting from any claims.

We may also be exposed to additional risks of product liability claims. These risks exist even with respect to drugs that are approved for commercial sale by the FDA or other regulatory authorities in the United States, the European Union or elsewhere and manufactured in facilities licensed and regulated by the FDA, EMA or other such regulatory authorities. We have secured limited product liability insurance coverage but may not be able to maintain such insurance on acceptable terms with adequate coverage, or at a reasonable cost. There is also a risk that third parties that we have agreed to indemnify could incur liability. Even if we were ultimately successful in product liability litigation, the litigation would consume substantial amounts of our financial and managerial resources and may exceed insurance coverage creating adverse publicity, all of which would impair our ability to generate sales of the litigated product as well as our other potential drugs.

If a supplier upon whom we rely fails to produce on a timely basis the finished goods in the volumes that we require or fails to meet quality standards and maintain necessary licensure from regulatory authorities, we may be unable to meet demand for our products, potentially resulting in lost revenues.

If any third-party manufacturer service providers do not meet our or our licensor's requirements for quality, quantity or timeliness, or do not achieve and maintain compliance with all applicable regulations, demand for our products or our ability to continue supplying such products could substantially decline. As the third-party manufacturers are the sole supplier of the products, any delays may impact our sales.

In all the countries where we may sell our products, governmental regulations exist to define standards for manufacturing, packaging, labeling and storing. All of our suppliers of raw materials and contract manufacturers must comply with these regulations. Failure to do so could result in supply interruptions. In the United States, the FDA requires that all suppliers of pharmaceutical bulk material and all manufacturers of pharmaceuticals for sale in or from the United States achieve and maintain compliance with the FDA's cGMP. Similar requirements exist in the European Union through the EMA. Failure of our third-party manufacturers to comply with applicable regulations could result in sanctions being imposed on them or us, including fines, injunctions, civil penalties, disgorgement, suspension or withdrawal of approvals, license revocation, seizures or recalls of products, operating restrictions and criminal prosecutions, any of which could significantly and adversely affect supplies of our products. In addition, before any product batch produced by our manufacturers can be shipped, it must conform to release specifications for the content of the pharmaceutical product. If the operations of one or more of our manufacturers were to become unavailable for any reason, any required FDA or EMA review and approval of the operations of an alternative supplier could cause a delay in the manufacture of our products.

The commercialization of our products will be substantially dependent on our ability to develop effective sales and marketing capabilities.

One of our primary strategies for product candidates under development is to develop compounds through the Phase 2 stage of clinical testing and market or co-promote certain of our drugs. We currently have no sales, marketing or distribution capabilities. We will depend primarily on strategic alliances with third parties, which have established distribution systems and sales forces, to commercialize our drugs. To the extent that we are unsuccessful in commercializing any drugs ourselves or through a strategic alliance, product revenues may suffer, we may incur significant additional losses, and our share price would be negatively affected.

We face potential product liability exposure, and if successful claims are brought against us, we may incur substantial liability for a product candidate and may have to limit its commercialization.

The use of our product candidates in clinical trials and the sale of any products for which we may obtain marketing approval expose us to the risk of product liability claims. Product liability claims may be brought against us or our collaborators by participants enrolled in our clinical trials, patients, health care providers or others using, administering or selling our products. If we cannot successfully defend ourselves against any such claims, we would incur substantial liabilities. Regardless of merit or eventual outcome, product liability claims may result in:

- withdrawal of clinical trial participants;
- termination of clinical trial sites or entire trial programs;
- costs of related litigation;
- substantial monetary awards to patients or other claimants;

- decreased demand for our product candidates and loss of revenues;
- impairment of our business reputation;
- diversion of management and scientific resources from our business operations; and
- the inability to commercialize our product candidates.

We have obtained limited product liability insurance coverage for our clinical trials in the United States and in selected other jurisdictions where we are conducting clinical trials. Our primary product liability insurance coverage for clinical trials in the United States is at least \$10.0 million and outside of the United States, we have coverage for lesser amounts that vary by country. As such, our insurance coverage may not reimburse us or may not be sufficient to reimburse us for any expenses or losses we may suffer. Moreover, insurance coverage is becoming increasingly expensive, and, in the future, we may not be able to maintain insurance coverage at a reasonable cost or in sufficient amounts to protect us against losses due to product liability. We intend to expand our insurance coverage for products to include the sale of commercial products if we obtain marketing approval for our product candidates in development, but we may be unable to obtain commercially reasonable product liability insurance for any products approved for marketing. Large judgments have been awarded in class action lawsuits based on drugs that had unanticipated side effects. A successful product liability claim or series of claims brought against us, particularly if judgments exceed our insurance coverage, could decrease our cash resources and adversely affect our business.

Healthcare legislative reform measures may have a material adverse effect on our business, financial condition or results of operations.

In the United States, there have been and continue to be a number of legislative initiatives to contain healthcare costs. For example, the ACA substantially changed the way healthcare is financed by both governmental and private insurers, and significantly impacted the U.S. pharmaceutical industry. The ACA, among other things, 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 and taxes on manufacturers of certain branded prescription drugs and biologics, and created a new Medicare Part D coverage gap discount program, in which manufacturers must agree to offer 70% (increased from 50% pursuant to the Bipartisan Budget Act of 2018, effective as of 2019) point-of-sale discounts off negotiated prices of applicable brand drugs and biologics to eligible beneficiaries during their coverage gap period, as a condition for the manufacturer's outpatient drugs or biologics to be covered under Medicare Part D.

We expect that future changes or additions to the ACA, the Medicare and Medicaid programs and changes stemming from other healthcare reform measures, especially with regard to healthcare access, financing or other legislation in individual states, could have a material adverse effect on the health care industry in the United States.

Over the past several years there has been heightened governmental scrutiny over the manner in which biopharmaceutical manufacturers set prices for their marketed products, which has resulted in several U.S. 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. The probability of success of these newly announced policies, many of which have been subjected to legal challenge in the federal court system, and their potential impact on the U.S. prescription drug marketplace is unknown. There are likely to be continued political and legal challenges associated with implementing these reforms as they are currently envisioned. For example, in July 2021, President Biden issued a sweeping executive order on promoting competition in the American economy that included several mandates pertaining to the pharmaceutical and health care insurance industries and called on HHS to release a comprehensive plan to combat high prescription drug prices. The drug pricing plan released by HHS in September 2021 in response to the executive order makes clear that the Biden Administration supports aggressive action to address rising drug prices, including allowing HHS to negotiate the cost of Medicare Part B and D drugs, but such significant changes will require either new legislation to be passed by Congress or time-consuming administrative actions.

Most recently, in August 2022, President Biden signed into the law the Inflation Reduction Act of 2022, or the IRA. Among other things, the IRA has multiple provisions that may impact the prices of drug products that are both sold into the Medicare program and throughout the United States. Starting in 2023, a manufacturer of a drug or biological product covered by Medicare Parts B or D must pay a rebate to the federal government if the product's price increases faster than the rate of inflation. This calculation is made on a drug product by drug product basis and the amount of the rebate owed to the federal government is directly dependent on the volume of a drug product that is paid for by Medicare Parts B or D. Additionally, starting in payment year 2026, CMS will negotiate drug prices annually for a select number of single source Part D drugs without generic or biosimilar competition. CMS will also negotiate drug prices for a select number of Part B drugs starting for payment year 2028. If a drug product is selected by CMS for negotiation, it is expected that the revenue generated from such drug will decrease. Additional state and federal health care reform measures are expected to be adopted in the future, any of which could limit the amounts that federal and state governments will pay for health care products and services, which could result in reduced demand for certain biopharmaceutical products or additional pricing pressures.

In addition to the IRA's drug price negotiation provisions, President Biden's Executive Order 14087, issued in October 2022, called for the CMS Innovation Center to prepare and submit a report to the White House on potential payment and delivery modes that would complement to IRA, lower drug costs, and promote access to innovative drugs. In February 2023, CMS published its report which described three potential models focusing on affordability, accessibility and feasibility of implementation for further testing by the CMS Innovation Center. As of February 2024, the CMS Innovation Center continues to test the proposed models and has started to roll out plans for access model testing of certain product types (e.g., cell and gene therapies) by states and manufacturers.

At the state level, legislatures have increasingly passed legislation and implemented regulations designed to control pharmaceutical and biological 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. For example, California requires pharmaceutical manufacturers to notify certain purchasers, including health insurers and government health plans at least 60 days before any scheduled increase in the wholesale acquisition cost (WAC), of their product if the increase exceeds 16%, and further requires pharmaceutical manufacturers to explain whether a change or improvement in the product necessitates such an increase. Similarly, Vermont requires pharmaceutical manufacturers to disclose price information on certain prescription drugs, and to provide notification to the state if introducing a new drug with a WAC in excess of the Medicare Part D specialty drug threshold. In addition, in recent years, several states have formed prescription drug affordability boards (PDABs). Much like the IRA's drug price negotiation program, these PDABs have attempted to implement upper payment limits (UPLs) on drugs sold in their respective states in both public and commercial health plans. For example, in August 2023, Colorado's PDAB announced a list of five prescription drugs that would undergo an affordability review. The effects of these efforts remain uncertain pending the outcomes of several federal lawsuits challenging state authority to regulate prescription drug payment limits.

In December 2020, the U.S. Supreme Court also held unanimously that federal law does not preempt the states' ability to regulate pharmaceutical benefit managers, or PBMs, and other members of the healthcare and pharmaceutical supply chain, an important decision that appears to be leading to further and more aggressive efforts by states in this area. The Federal Trade Commission in mid-2022 also launched sweeping investigations into the practices of the PBM industry that could lead to additional federal and state legislative or regulatory proposals targeting such entities' operations, pharmacy networks, or financial arrangements. Significant efforts to change the PBM industry as it currently exists in the United States may affect the entire pharmaceutical supply chain and the business of other stakeholders, including biopharmaceutical developers like us. Legally mandated price controls on payment amounts by third-party payors or other restrictions could harm our business, results of operations, financial condition and prospects. In addition, regional healthcare authorities and individual hospitals are increasingly using bidding procedures to determine what pharmaceutical products and which suppliers will be included in their prescription drug and other healthcare programs. This could reduce the ultimate demand for our product candidates, if approved, or put pressure on our product pricing, which could negatively affect our business, results of operations, financial condition and prospects.

In the European Union, similar political, economic and regulatory developments may affect our ability to profitably commercialize our products. In addition to continuing pressure on prices and cost containment measures, legislative developments at the European Union or EU member state level may result in significant additional requirements or obstacles that may increase our operating costs.

We cannot predict the likelihood, nature or extent of government regulation that may arise from future legislation or administrative or executive action. We expect that additional federal and state health care reform measures will be adopted in the future, any of which could limit the amounts that federal and state governments will pay for health care products and services, which could result in limited coverage and reimbursement and reduced demand for our products, once approved, or additional pricing pressures.

We may be subject, directly or indirectly, to federal and state healthcare fraud and abuse laws, false claims laws, and health information privacy and security laws. If we are unable to comply, or have not fully complied, with such laws, we could face substantial penalties.

If we obtain FDA approval for any of our product candidates and begin commercializing those products in the United States, our operations may be subject to various federal and state fraud and abuse laws, including, without limitation, the federal Anti-Kickback Statute, the federal False Claims Act, and physician payments sunshine laws and regulations. These laws may impact, among other things, our proposed sales, marketing, and education programs. In addition, we may be subject to patient privacy regulation by both the federal government and the states in which we conduct our business. The laws that may affect our ability to operate include:

- The federal Anti-Kickback Statute, which prohibits, among other things, persons from knowingly and willfully soliciting, receiving, offering or paying remuneration, directly or indirectly, to induce, or in return for, the purchase or recommendation of an item or service reimbursable under a federal healthcare program, such as the Medicare and Medicaid programs;
- Federal civil and criminal false claims laws and civil monetary penalty laws, which prohibit, among other things, individuals or entities from knowingly presenting, or causing to be presented, claims for payment from Medicare, Medicaid, or other government payors that are false or fraudulent or making a false statement to avoid, decrease or conceal an obligation to pay money to the federal government;
- The federal Health Insurance Portability and Accountability Act of 1996 (HIPAA), which created new federal criminal statutes that prohibit executing a scheme to defraud any healthcare benefit program and making false statements relating to healthcare matters;
- HIPAA, as amended by the Health Information Technology and Clinical Health Act, and its implementing regulations, which imposes specified requirements relating to the privacy, security, and transmission of individually identifiable health information;
- The federal physician payments sunshine requirements under the ACA require manufacturers of drugs, devices, biologics, and medical supplies to report annually to CMS information related to payments and other transfers of value to physicians, certain advanced non-physician healthcare providers, and teaching hospitals, and ownership and investment interests held by physicians and other healthcare providers and their immediate family members; and
- State law equivalents of each of the above federal laws, such as anti-kickback and false claims laws that may apply to items or services reimbursed by any third-party payor, including governmental and private payors, to comply with the pharmaceutical industry's voluntary compliance guidelines and the relevant compliance guidance promulgated by the federal government, or otherwise restrict payments that may be made to healthcare providers and other potential referral sources; state laws that 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 laws governing the privacy and security of health information in specified circumstances, many of which differ from each other in significant ways and may not have the same effect, thus complicating compliance efforts.

Because of the breadth of these laws and the narrowness of the statutory exceptions and safe harbors available, it is possible that some of our business activities could be subject to challenge under one or more of such laws. In addition, recent health care reform legislation has strengthened these laws. For example, the ACA, among other things, amended the intent requirement of the federal anti-kickback and criminal healthcare fraud statutes. A person or entity no longer needs to have actual knowledge of this statute or specific intent to violate it. Moreover, the ACA provides that the U.S. 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 False Claims Act.

If our operations are found to be in violation of any of the laws described above or any other governmental regulations that apply to us, we may be subject to penalties, including civil and criminal penalties, damages, fines, exclusion from participation in government health care programs, such as Medicare and Medicaid, imprisonment, and the curtailment or restructuring of our operations, any of which could adversely affect our ability to operate our business and our results of operations.

We may be subject to, or may in the future become subject to, U.S. federal and state, and foreign laws and regulations imposing obligations on how we collect, use, disclose, store and process personal information. Our actual or perceived failure to comply with such obligations could result in liability or reputational harm and could harm our business. Ensuring compliance with such laws could also impair our efforts to maintain and expand our customer base, and thereby decrease our revenue.

In many activities, including the conduct of clinical trials, we are subject to laws and regulations governing data privacy and the protection of health-related and other personal information. The regulatory framework for collecting, using, safeguarding, sharing, transferring and other processing of information worldwide is rapidly evolving and is likely to remain uncertain for the foreseeable future. For example, the collection, use, disclosure, transfer, or other processing of personal data regarding individuals in the European Union, including personal health data, is subject to the General Data Protection Regulation, or GDPR, which took effect across all Member States of the European Economic Area, or EEA, on May 25, 2018. The withdrawal of the United Kingdom from the European Union and the subsequent separation of the data protection regimes of these territories mean we are required to comply with separate data protection laws in the European Union and the United Kingdom, which may lead to additional compliance costs and could increase our overall risk. Similar laws and regulations govern our processing of personal data, including the collection, access, use, analysis, modification, storage, transfer, security breach notification, destruction and disposal of personal data. We must comply with laws and regulations associated with the international transfer of personal data based on the location in which the personal data originates and the location in which it is processed. Although there are legal mechanisms to facilitate the transfer of personal data from the European Economic Area (EEA), and Switzerland to the United States, the decision of the Court of Justice of the EU (CJEU) that invalidated the safe harbor framework has increased uncertainty around compliance with EU (CJEU) that invalidated the safe harbor framework has increased uncertainty around compliance with EU privacy law requirements. As a result of the decision, it was no longer possible to rely on safe harbor certification as a legal basis for the transfer of personal data from the European Union to entities in the United States. However, on July 10, 2023, the European Commission adopted an adequacy decision for a new mechanism for transferring data from the EU to the United States – the EU-U.S. Data Privacy Framework, which provides EU individuals with several new rights, including the right to obtain access to their data, or obtain correction or deletion of incorrect or unlawfully handled data. The adequacy decision followed the signing of an executive order introducing new binding safeguards to address the points raised in the *Schrems II* decision by the CJEU, which invalidated the previous EU-U.S. Privacy Shield. The European Commission will continually review developments in the United States along with its adequacy decision. Adequacy decisions can be adapted or even withdrawn in the event of developments affecting the level of protection in the applicable jurisdiction. Future actions of EU data protection authorities are difficult to predict. Some customers or other service providers may respond to these evolving laws and regulations by asking us to make certain privacy or data-related contractual commitments that we are unable or unwilling to make. This could lead to the loss of current or prospective customers or other business relationships.

The privacy and security of personally identifiable information stored, maintained, received or transmitted, including electronically, is subject to significant regulation in the United States and abroad. While we strive to comply with all applicable privacy and security laws and regulations, legal standards for privacy continue to evolve and any failure or perceived failure to comply may result in proceedings or actions against us by government entities or others, or could cause reputational harm, which could have a material adverse effect on our business.

Numerous foreign, federal and state laws and regulations govern collection, dissemination, use and confidentiality of personally identifiable health information, including state privacy and confidentiality laws (including state laws requiring disclosure of breaches); federal and state consumer protection and employment laws; HIPAA; and European and other foreign data protection laws. These laws and regulations are increasing in complexity and number, may change frequently and sometimes conflict.

HIPAA establishes a set of national privacy and security standards for the protection of individually identifiable health information, including protected health information, or PHI, by health plans, certain healthcare clearinghouses and healthcare providers that submit certain covered transactions electronically, or covered entities, and their “business associates,” which are persons or entities that perform certain services for, or on behalf of, a covered entity that involve creating, receiving, maintaining or transmitting PHI. While we are not currently a covered entity or business associate under HIPAA, we may receive identifiable information from these entities. Failure to receive this information properly could subject us to HIPAA’s criminal penalties, which may include fines up to \$50,000 per violation and/or imprisonment. In addition, responding to government investigations regarding alleged violations of these and other laws and regulations, even if ultimately concluded with no findings of violations or no penalties imposed, can consume company resources and impact our business and, if public, harm our reputation.

In addition, various states, such as California and Massachusetts, have implemented similar privacy laws and regulations, such as the California Confidentiality of Medical Information Act, that impose restrictive requirements regulating the use and disclosure of health information and other personally identifiable information. In addition to fines and penalties imposed upon violators, some of these state laws also afford private rights of action to individuals who believe their personal information has been misused. California’s patient privacy laws, for example, provide for penalties of up to \$250,000 and permit injured parties to sue for damages. In addition, California enacted the California Consumer Privacy Act (the CCPA), which took effect on January 1, 2020, became enforceable by the California Attorney General on July 1, 2020, and has been dubbed the first “GDPR-like” law in the United States. The CCPA gives California residents expanded rights to access and delete their personal information, opt out of certain personal information sharing and receive detailed information about how their personal information is used by requiring covered companies to provide new disclosures to California consumers (as that term is broadly defined) and provide such consumers new ways to opt-out of certain sales of personal information. The CCPA provides for civil penalties for violations, as well as a private right of action for data breaches that is expected to increase data breach litigation. Further, in 2020, California voters passed the California Privacy Rights Act (the CPRA), which became effective as of January 1, 2023. The CPRA imposes additional data protection obligations on companies doing business in California, including additional consumer rights processes, limitations on data uses, new audit requirements for higher risk data, and opt outs for certain uses of sensitive data. It also creates a new regulatory entity, the California Privacy Protection Agency, which is authorized to issue substantive regulations under the CPRA and could result in increased privacy and information security enforcement. Although the CCPA currently exempts certain health-related information, including clinical trial data, the CCPA and the CPRA may increase our compliance costs and potential liability. Other states have implemented similar laws protecting identifiable health and personal information, and most such laws differ from each other in significant ways and may not be preempted by HIPAA, thus complicating compliance efforts.

The interplay of federal and state laws may be subject to varying interpretations by courts and government agencies, creating complex compliance issues for us and our clients and potentially exposing us to additional expense, adverse publicity and liability. Further, as regulatory focus on privacy issues continues to increase and laws and regulations concerning the protection of personal information expand and become more complex, these potential risks to our business could intensify.

The legislative and regulatory landscape for privacy and data security continues to evolve, and there has been an increasing focus on privacy and data security issues which may affect our business. Failure to comply with current and future laws and regulations could result in government enforcement actions (including the imposition of significant penalties), criminal and civil liability for us and our officers and directors, private litigation and/or adverse publicity that negatively affects our business.

Defending against claims relating to improper handling, storage or disposal of hazardous chemical, radioactive or biological materials could be time consuming and expensive.

Our research and development involves the controlled use of hazardous materials, including chemicals, radioactive and biological materials such as chemical solvents, phosphorus and bacteria. Our operations produce hazardous waste products. We cannot eliminate the risk of accidental contamination or discharge and any resultant injury from those materials. Various laws and regulations govern the use, manufacture, storage, handling and disposal of hazardous materials. We may be sued for any injury or contamination that results from our use or the use by third parties of these materials. Compliance with environmental laws and regulations may be expensive, and current or future environmental regulations may impair our research, development and production efforts.

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

Despite the implementation of security measures, our internal computer systems, and those of our CROs and other third parties on which we rely, are vulnerable to damage from computer viruses, unauthorized access, natural disasters, terrorism, war and telecommunication and electrical failures. If such an event were to occur and cause interruptions in our operations, it could result in a material disruption of our drug development programs. For example, the loss of clinical trial data from completed or ongoing or planned clinical trials could result in delays in our regulatory approval efforts and significantly increase our costs to recover or reproduce the data. To the extent that any disruption or security breach were to result in a loss of or damage to our data or applications, or inappropriate disclosure of confidential or proprietary information, we could incur liability and the further development of our product candidates could be delayed.

Risks Related to Our Business and Financial Condition

We have a history of operating losses and we may never become profitable. Our stock is a highly speculative investment.

We have incurred operating losses in each year since beginning operations in 1996 due to costs incurred in connection with our research and development activities and selling, general and administrative costs associated with our operations, and we may never achieve profitability. As of December 31, 2022 and September 30, 2023, our accumulated deficit was \$405.7 million and \$423.0 million, respectively. Our net loss was \$21.2 million for the year ended December 31, 2022 and \$17.3 million for the nine months ended September 30, 2023. Our drug candidates are in the early- to mid-stages of clinical testing and we must conduct significant additional clinical trials before we can seek the regulatory approvals necessary to begin commercial sales of our drugs. We expect to incur continued losses for several years as we continue our research and development of our drug candidates, seek regulatory approvals and commercialize any approved drugs. If our drug candidates are unsuccessful in clinical trials or we are unable to obtain regulatory approvals, or if our drugs are unsuccessful in the market, we will not be profitable. If we fail to become and remain profitable, or if we are unable to fund our continuing losses, particularly in light of the current economic conditions, you could lose all or part of your investment.

There is substantial doubt regarding our ability to continue as a going concern. Our ability to raise additional capital in the future may not be available to us on reasonable terms, if at all, when or as we require additional funding. If we issue additional shares of our common stock or other securities that may be convertible into, or exercisable or exchangeable for, our common stock, our existing stockholders would experience further dilution. If we fail to obtain additional funding, we may be unable to complete the development and commercialization of our lead drug candidates, fadraciclib and plogosertib, or continue to fund our research and development programs.

We have funded all of our operations and capital expenditures with proceeds from the issuance of public equity securities, private placements of our securities, interest on investments, licensing revenue, government grants, research and development tax credits and product revenue. In order to conduct the lengthy and expensive research, preclinical testing and clinical trials necessary to complete the development and marketing of our drug candidates, we will require substantial additional funds. We may have insufficient public equity available for issue to raise the required additional substantial funds to implement our operating plan and we may not be able to obtain the appropriate stockholder approvals necessary to increase our available public equity for issuance within a time that we may require additional funding. As of September 30, 2023, our cash and cash equivalents were \$5.9 million. Based on our current operating plan, there is substantial doubt regarding our ability to continue as a going concern for a period of one year after the date that our financial statements for the nine months ended September 30, 2023 are issued. To meet our long-term financing requirements, we may raise funds through public or private equity offerings, debt financings or strategic alliances. Raising additional funds by issuing equity or convertible debt securities may cause our stockholders to experience substantial dilution in their ownership interests and new investors may have rights superior to the rights of our other stockholders. To the extent equity valuations, including the trading price of our common stock, are depressed as a result of economic disruptions or other uncertainties, for example due to rising inflationary pressures, ongoing military conflicts or other factors, the potential magnitude of this dilution will increase. Raising additional funds through debt financing, if available, may involve covenants that restrict our business activities and options. To the extent that we raise additional funds through collaborations and licensing arrangements, we may have to relinquish valuable rights to our drug discovery and other technologies, research programs or drug candidates, or grant licenses on terms that may not be favorable to us. Additional funding may not be available to us on favorable terms, or at all, particularly in light of the current economic conditions. Changes to United Kingdom tax legislation related to research and development tax credits may reduce or eliminate the cash flow benefit we receive from these tax credits. If we are unable to obtain additional funds, we may be forced to delay or terminate our current clinical trials and the development and marketing of our drug candidates including fadraciclib and plogosertib.

Unstable market and economic conditions may have serious adverse consequences on our business, financial condition and stock price.

As widely reported, global credit and financial markets have experienced extreme disruptions in the past several years, including severely diminished liquidity and credit availability, declines in consumer confidence, declines in economic growth, increases in unemployment rates, and uncertainty about economic stability. There can be no assurance that further deterioration in credit and financial markets and confidence in economic conditions will not continue to occur. Our general business strategy may be adversely affected by any such economic downturn, volatile business environment or continued unpredictable and unstable market conditions. If the current financial markets deteriorate, or do not improve, it may make any necessary financing more difficult, more costly, and more dilutive. Failure to secure any necessary financing in a timely manner and on favorable terms could have a material adverse effect on our growth strategy, financial performance and stock price and could require us to delay or abandon clinical development or other operating or strategic plans for our business.

Inadequate funding for the FDA, the SEC and other government agencies could hinder their ability to hire and retain key leadership and other personnel, prevent new products and services from being developed or commercialized in a timely manner or otherwise prevent those agencies from performing normal business functions on which the operation of our business may rely, which could negatively impact our business.

The ability of the FDA to review and approve new products can be affected by a variety of factors, including government budget and funding levels, ability to hire and retain key personnel and accept the payment of user fees, and statutory, regulatory, and policy changes. Average review times at the agency have fluctuated in recent years as a result. In addition, government funding of the SEC and other government agencies on which our operations may rely, including those that fund research and development activities is subject to the political process, which is inherently fluid and unpredictable.

Disruptions at the FDA and other agencies may also slow the time necessary for new drugs to be reviewed and/or approved by necessary government agencies, which would adversely affect our business. If a prolonged government shutdown occurs, it could significantly impact the ability of the FDA to timely review and process our regulatory submissions, which could have a material adverse effect on our business. Further, upon completion of this offering and in our operations as a public company, future government shutdowns could impact our ability to access the public markets and obtain necessary capital in order to properly capitalize and continue our operations.

Our employees, independent contractors, principal investigators, contract research organizations, consultants or vendors may engage in misconduct or other improper activities, including noncompliance with regulatory standards and requirements.

We are exposed to the risk that our employees, independent contractors, principal investigators, contract research organizations, consultants or vendors may engage in fraudulent or other illegal activity. Misconduct by these parties could include intentional, reckless and/or negligent conduct or disclosure of unauthorized activities to us that violates: FDA regulations, including those laws requiring the reporting of true, complete and accurate information to the FDA; manufacturing standards; federal and state health care fraud and abuse laws and regulations; or laws that require the true, complete and accurate reporting of financial information or data. In addition, sales, marketing and business arrangements in the health care industry are subject to extensive laws and regulations intended to prevent fraud, 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 or misrepresentation of information obtained in the course of clinical trials or creating fraudulent data in our nonclinical studies or clinical trials, which could result in regulatory sanctions and serious harm to our reputation.

It is not always possible to identify and deter misconduct by our 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 be in compliance with such 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 health care programs, contractual damages, reputational harm, diminished potential profits and future earnings, and curtailment of our operations, any of which could adversely affect our business, financial condition, results of operations or prospects.

If we are unable to compete successfully in our marketplace, it will harm our business.

There are existing products in the marketplace that compete with our products. Companies may develop new products that compete with our products. Certain of these competitors and potential competitors have longer operating histories, substantially greater product development capabilities and financial, scientific, marketing and sales resources. Competitors and potential competitors may also develop products that are safer, more effective or have other potential advantages compared to our products. In addition, research, development and commercialization efforts by others could render our products obsolete or non-competitive. Certain of our competitors and potential competitors have broader product offerings and extensive customer bases, allowing them to adopt aggressive pricing policies that would enable them to gain market share. Competitive pressures could result in price reductions, reduced margins and loss of market share. We could encounter potential customers that, due to existing relationships with our competitors, are committed to products offered by those competitors. As a result, those potential customers may not consider purchasing our products.

We are at an early stage of development as a company and we do not have, and may never have, any products that generate significant revenues.

We are at an early stage of development as a company and have a limited operating history on which to evaluate our business and prospects. We cannot guarantee that any of our product candidates currently in development will ever become marketable products. We must demonstrate that our drug candidates satisfy rigorous standards of safety and efficacy for their intended uses before the FDA, EMA and other regulatory authorities in the United States, the European Union and elsewhere. Significant additional research, preclinical testing and clinical testing is required before we can file applications with the FDA or EMA for approval of our drug candidates. In addition, to compete effectively, our drugs must be easy to administer, cost-effective and economical to manufacture on a commercial scale. We may not achieve any of these objectives. We cannot be certain that the clinical development of our drug candidates in preclinical testing or clinical development will be successful, that we will receive regulatory approvals required to commercialize them or that any of our other research and drug discovery programs will yield a drug candidate suitable for investigation through clinical trials. Our commercial revenues from our product candidates currently in development, if any, will be derived from sales of drugs that will not become marketable for several years, if at all.

If we fail to comply with the continued listing requirements of the Nasdaq Capital Market, our common stock may be delisted and the price of our common stock and our ability to access the capital markets could be negatively impacted.

Our common stock is currently listed for trading on the Nasdaq Capital Market (“Nasdaq”). We must satisfy Nasdaq’s continued listing requirements, including, among other things, a minimum stockholders’ equity of \$2.5 million and a minimum bid price for our common stock of \$1.00 per share, or risk delisting, which would have a material adverse effect on our business. A delisting of our common stock from the Nasdaq Capital Market could materially reduce the liquidity of our common stock and result in a corresponding material reduction in the price of our common stock. In addition, delisting could harm our ability to raise capital through alternative financing sources on terms acceptable to us, or at all, and may result in the potential loss of confidence by investors, suppliers, customers and employees and fewer business development opportunities.

Notwithstanding the reverse stock split and our compliance with the Nasdaq Capital market requirements, we cannot be sure that our share price will continue to comply with the requirements for continued listing of our common stock on the Nasdaq Capital Market in the future, or that we will continue to comply with the other continued listing requirements. If our shares of Common Stock lose their status on the Nasdaq Capital Market, we believe that our shares of Common Stock would likely be eligible to be quoted on the inter-dealer electronic quotation and trading system operated by Pink OTC Markets Inc., commonly referred to as the Pink Sheets and now known as the OTCQB market. Our shares of Common Stock may also be quoted on the Over-the-Counter Bulletin Board, an electronic quotation service maintained by the Financial Industry Regulatory Authority. These markets are generally not considered to be as efficient as, and not as broad as, the Nasdaq Capital Market. Selling our shares of Common Stock on these markets could be more difficult because smaller quantities of shares would likely be bought and sold, and transactions could be delayed. In addition, in the event our shares of Common Stock are delisted, broker-dealers have certain regulatory burdens imposed upon them, which may discourage broker-dealers from effecting transactions in our Common Stock, further limiting the liquidity of our Common Stock. These factors could result in lower prices and larger spreads in the bid and ask prices for our Common Stock.

To the extent we elect to fund the development of a drug candidate or the commercialization of a drug at our expense, we will need substantial additional funding.

We plan to market drugs on our own, with or without a partner, that can be effectively commercialized and sold in concentrated markets that do not require a large sales force to be competitive. To achieve this goal, we will need to establish our own specialized sales force, marketing organization and supporting distribution capabilities. The development and commercialization of our drug candidates is very expensive. To the extent we elect to fund the full development of a drug candidate or the commercialization of a drug at our expense, we will need to raise substantial additional funding to:

- fund research and development and clinical trials connected with our research;
- fund clinical trials and seek regulatory approvals;
- build or access manufacturing and commercialization capabilities;
- implement additional internal control systems and infrastructure;
- commercialize and secure coverage, payment and reimbursement of our drug candidates, if any such candidates receive regulatory approval;
- maintain, defend and expand the scope of our intellectual property; and
- hire additional management, sales and scientific personnel.

Our future funding requirements will depend on many factors, including:

- the scope, rate of progress and cost of our clinical trials and other research and development activities;
- the costs and timing of seeking and obtaining regulatory approvals;
- the costs of filing, prosecuting, defending and enforcing any patent claims and other intellectual property rights;
- the costs associated with establishing sales and marketing capabilities;
- the costs of acquiring or investing in businesses, products and technologies;
- the effect of competing technological and market developments; and
- the payment, other terms and timing of any strategic alliance, licensing or other arrangements that we may establish.

If we are not able to secure additional funding when needed, especially in light of the current economic conditions and financial market turmoil, we may have to delay, reduce the scope of or eliminate one or more of our clinical trials or research and development programs or future commercialization efforts.

Our insurance policies are expensive and only protect us from some business risks, which will leave us exposed to significant uninsured liabilities.

We do not carry insurance for all categories of risk that our business may encounter. Some of the policies we currently maintain include property, general liability, employment benefits liability, workers' compensation, products liability and clinical trials (U.S. and foreign), and directors' and officers', employment practices and fiduciary liability insurance. We do not know, however, if we will be able to maintain insurance with adequate levels of coverage. Any significant uninsured liability may require us to pay substantial amounts, which would adversely affect our financial position and results of operations.

Funding constraints may negatively impact our research and development, forcing us to delay our efforts to develop certain product candidates in favor of developing others, which may prevent us from commercializing our product candidates as quickly as possible.

Research and development is an expensive process. As part of our operating plan, we have decided to concentrate our clinical development strategy on our two ongoing, hemato-oncology clinical programs in transcriptional regulation and mitosis control biology, which include our areas of historical expertise in CDK and PLK inhibitors. Because we have to prioritize our development candidates as a result of budget constraints, we may not be able to fully realize the value of our product candidates in a timely manner, if at all.

We are exposed to risks related to foreign currency exchange rates.

Some of our costs and expenses are denominated in foreign currencies. Most of our foreign expenses are associated with our research and development expenditures, including the operating costs of our United Kingdom-based wholly owned subsidiary. When the United States dollar weakens against the British pound or the Euro, the United States dollar value of the foreign currency denominated expense increases, and when the United States dollar strengthens against the British pound or the Euro, the United States dollar value of the foreign currency denominated expense decreases. Consequently, changes in exchange rates, and in particular a weakening of the United States dollar, may adversely affect our results of operations.

Security breaches, loss of data and other disruptions could compromise sensitive information related to our business or prevent us from accessing critical information and expose us to liability, which could adversely affect our business and our reputation. Our business and operations would suffer in the event of system failures.

In the ordinary course of our business, we collect and store sensitive data, intellectual property and proprietary business information owned or controlled by ourselves or our customers. This data encompasses a wide variety of business-critical information including research and development information, commercial information, and business and financial information. We face four primary risks relative to protecting this critical information: loss of access; inappropriate disclosure; inappropriate modification; and inadequate monitoring of our controls over the first three risks.

We utilize information technology, or IT, systems and networks to process, transmit and store electronic information in connection with our business activities. The secure processing, storage, maintenance, and transmission of this critical information is vital to our operations and business strategy, and we devote significant resources to protecting such information. 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 and cloud-based computer systems and those of our contractors and consultants are vulnerable to damage from such cyber-attacks, including computer viruses, unauthorized access, natural disasters, terrorism, war and telecommunication and electrical failures. Such an event could cause interruption of our operations. For example, the loss of data from ongoing or completed clinical trials for our product candidates could result in delays in our regulatory approval efforts and significantly increase our costs. In addition, there can be no assurance that we will promptly detect any such disruption or security breach, if at all. To the extent that any disruption or security breach were to result in a loss of or damage to our data, or inappropriate disclosure of confidential or proprietary information, we could suffer material legal claims and liability, damage to our reputation, suffer loss or harm to our intellectual property rights and the further research, development and commercial efforts of our products and product candidates could be delayed. The loss of drug development or clinical trial data could result in delays in our regulatory approval efforts and significantly increase our costs to recover or reproduce the data.

Risks Related to our Reliance on Third Parties

We rely, and expect to continue to rely, on third parties to conduct some aspects of our product formulation, research, preclinical, and clinical studies, and those third parties may not perform satisfactorily, including by failing to meet deadlines for the completion of such formulation, research or testing.

We have relied upon and plan to continue to rely upon third parties, including independent clinical investigators, contracted laboratories and third-party CROs, to conduct our preclinical studies and clinical trials, as well as certain product candidate discovery and development activities, in accordance with applicable regulatory requirements and to monitor and manage data for our ongoing preclinical and clinical programs. We rely on these parties for execution of our preclinical studies and clinical trials, and control only certain aspects of their activities. Nevertheless, we are responsible for ensuring that each of our studies and trials is conducted in accordance with the applicable protocol, legal and regulatory requirements and scientific standards, and our reliance on these third parties does not relieve us of our regulatory responsibilities. We and our third-party contractors and CROs are required to comply with GLP and GCP requirements, as applicable, which are regulations and guidelines enforced by the FDA, the EMA and other comparable foreign regulatory authorities for all of our products in clinical development. Regulatory authorities enforce these GLP and GCP regulations through periodic inspections of laboratories conducting GLP studies, and clinical trial sponsors, principal investigators, CROs, and trial sites when auditing for GCP compliance. If we, our investigators or any of our CROs or contracted laboratories fail to comply with applicable GLP and GCP regulations, as applicable, the data generated in our preclinical studies and clinical trials may be deemed unreliable and the FDA, the EMA or other comparable foreign regulatory authorities may require us to perform additional preclinical studies or clinical trials before approving our marketing applications for our therapeutic product candidates. We cannot assure you that upon inspection by a given regulatory authority, such regulatory authority will determine that any of our preclinical studies or clinical trials comply with applicable GLP or GCP regulations. In addition, our clinical trials must be conducted with product manufactured in compliance with applicable cGMP regulations. Our failure to comply with these regulations may require us to repeat preclinical studies or clinical trials, which would delay the regulatory approval process.

Further, these laboratories, investigators and CROs are not our employees, and we will not be able to control, other than by contract, the amount of resources, including time, which they devote to our product candidates and clinical trials. If independent laboratories, investigators or CROs fail to devote sufficient resources to the development of our product candidates, or if their performance is substandard, it may delay or compromise the prospects for approval and commercialization of any product candidates that we develop. In addition, the use of third-party service providers requires us to disclose our proprietary information to these parties, which could increase the risk that this information will be misappropriated.

There is a limited number of third-party service providers that specialize or have the expertise required to achieve our business objectives. If any of our relationships with these third-party laboratories, CROs or clinical investigators terminate, we may not be able to enter into arrangements with alternative laboratories, CROs or investigators or to do so in a timely manner or on commercially reasonable terms. If laboratories, CROs or clinical investigators 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 preclinical or clinical protocols, regulatory requirements or for other reasons, our preclinical studies or clinical trials may be extended, delayed or terminated and we may not be able to obtain regulatory approval for or successfully commercialize our product candidates. As a result, our results of operations and the commercial prospects for our product candidates would be harmed, our costs could increase and our ability to generate revenues could be delayed.

Switching or adding additional laboratories or CROs (or investigators) involves additional cost and requires management time and focus. In addition, there is a natural transition period when a new laboratory or CRO commences work. As a result, delays occur, which can materially impact our ability to meet our desired clinical development timelines. Though we carefully manage our relationships with our contracted laboratories and CROs, there can be no assurance that we will not encounter similar challenges or delays in the future or that these delays or challenges will not have a material adverse impact on our business, financial condition and results of operations.

In addition, clinical investigators may serve as scientific advisors or consultants to us from time to time and may receive cash compensation in connection with such services. If these relationships and any related compensation result in perceived or actual conflicts of interest, or the FDA concludes that the financial relationship may have affected the interpretation of the preclinical study or clinical trial, the integrity of the data generated at the applicable preclinical study or clinical trial site may be questioned and the utility of the preclinical study or clinical trial itself may be jeopardized, which could result in the delay or rejection by the FDA. Any such delay or rejection could prevent us from commercializing our clinical-stage product candidate or any future therapeutic product candidates it may develop.

We rely on third-party supply and manufacturing partners for drug supplies for our late-stage clinical activities and may do the same for any commercial supplies of our product candidates.

We rely on third-party contract manufacturing organizations, or CMOs, for our preclinical and future clinical trial product materials and commercial supplies. We do not intend to produce any meaningful quantity of our future product candidates for preclinical and clinical development through our internal resources, and we do not currently own manufacturing facilities for producing such supplies. While we intend to try to avoid sole-source arrangements with any of our manufacturing, supply and testing vendors, it may not always be possible to do so. We cannot assure you that our preclinical or future clinical development product supplies and commercial supplies will not be limited or interrupted, especially with respect to any sole source third-party manufacturing and supply partners or will be of satisfactory quality or continue to be available at acceptable prices. In particular, any replacement of our manufacturers could require significant effort and expertise because there may be a limited number of qualified replacements.

In complying with the manufacturing regulations of the FDA and other comparable foreign regulatory authorities, we and our third-party suppliers must spend significant time, money and effort in the areas of design and development, testing, production, record-keeping and quality control to assure that the products meet applicable specifications and other regulatory requirements. Suppliers and manufacturers must meet applicable manufacturing requirements and undergo rigorous facility and process validation tests required by regulatory authorities in order to comply with regulatory standards, such as cGMP. Although our agreements with our CMOs require them to perform according to certain cGMP requirements such as those relating to quality control, quality assurance and qualified personnel, we cannot control the conduct of our CMOs to implement and maintain these standards. In the event that any of our current or future manufacturers fails to comply with such requirements or to perform its obligations to us in relation to quality, timing or otherwise, or if our supply of components or other materials becomes limited or interrupted for other reasons, we may be forced to manufacture the materials ourselves, for which we currently do not have the capabilities or resources, or enter into an agreement with another third party, which we may not be able to do on commercially reasonable terms, or at all. In some cases, the technical skills or technology required to manufacture our future product candidates may be unique or proprietary to the original manufacturer and we may have difficulty transferring such skills or technology to another third party and a feasible alternative may not exist. These factors would increase our reliance on such manufacturer or require us to obtain a license from such manufacturer in order to have another third party manufacture our product candidates. If we are required to change manufacturers for any reason, we will be required to verify that the new manufacturer maintains facilities and procedures that comply with quality standards and with all applicable regulations and guidelines. The delays associated with the verification of a new manufacturer could negatively affect our ability to develop product candidates in a timely manner or within budget.

In addition, our CMOs are subject to inspection and approval by regulatory authorities before we can commence the manufacture and sale of any of our product candidates, and thereafter are subject to ongoing inspection from time to time. Our CMOs may not be able to comply with applicable cGMP regulations or similar regulatory requirements outside of the United States. Our failure, or the failure of our third-party manufacturers, to comply with applicable regulations could result in regulatory actions, such as the issuance of FDA Form 483 notices of observations, warning letters or 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 candidates or drugs, operating restrictions and criminal prosecutions, any of which could significantly and adversely affect supplies of our products. Any such failure by us or any of our CMOs would significantly impact our ability to develop, obtain regulatory approval for or, if approved, market our product candidates.

We may rely on third-party manufacturers if we receive regulatory approval for any product candidate. To the extent that we have existing, or enter into future, manufacturing arrangements with third parties, we will depend on these third parties to perform their obligations in a timely manner consistent with contractual and regulatory requirements, including those related to quality control and assurance. If we are unable to obtain or maintain third-party manufacturing for product candidates, or to do so on commercially reasonable terms, we may not be able to develop and commercialize our product candidates successfully. Our or a third-party's failure to execute on our manufacturing requirements could adversely affect our business in a number of ways, including:

- an inability to initiate or continue clinical trials of product candidates under development, which may impact our potential economic benefits;
- delay in submitting regulatory applications, or receiving regulatory approvals, for product candidates;
- loss of the cooperation of a collaborator;
- subjecting our product candidates to additional inspections by regulatory authorities;
- requirements to cease distribution or to recall batches of our product candidates; and
- in the event of approval to market and commercialize a product candidate, an inability to meet commercial demands for our products.

If we fail to enter into and maintain successful strategic alliances for our drug candidates, we may have to reduce or delay our drug candidate development or increase our expenditures.

An important element of our strategy for developing, manufacturing and commercializing our drug candidates is entering into strategic alliances with pharmaceutical companies, research institutions or other industry participants to advance our programs and enable us to maintain our financial and operational capacity.

We face significant competition in seeking appropriate alliances. We may not be able to negotiate alliances on acceptable terms, if at all. In addition, these alliances may be unsuccessful. If we fail to create and maintain suitable alliances, we may have to limit the size or scope of, or delay, one or more of our drug development or research programs. If we elect to fund drug development or research programs on our own, we will have to increase our expenditures and will need to obtain additional funding, which may be unavailable or available only on unfavorable terms.

To the extent we are able to enter into strategic transactions, we will be exposed to risks related to those collaborations and alliances.

We expect to enter into strategic transactions to complete the development and commercialization of some of our drug candidates, including but not limited to after the Phase 2 stage of clinical testing. These arrangements may place the development of our drug candidates outside our control, may require us to relinquish important rights, or may otherwise be on terms unfavorable to us.

Dependence on collaborative arrangements or strategic alliances will subject us to a number of risks, including the risks that:

- we may not be able to control the amount and timing of resources that our collaborators may devote to the drug candidates;
- our collaborators may experience financial difficulties;
- we may be required to relinquish important rights such as marketing and distribution rights;
- business combinations or significant changes in a collaborator's business strategy may also adversely affect a collaborator's willingness or ability to complete its obligations under any arrangement;
- a collaborator could independently move forward with a competing drug candidate developed either independently or in collaboration with others, including our competitors; and
- collaborative arrangements are often terminated or allowed to expire, which would delay development and may increase the cost of developing our drug candidates.

Risks Related to our Intellectual Property

If we fail to enforce adequately or defend our intellectual property rights, our business may be harmed.

Our commercial success depends in large part on obtaining and maintaining patent and trade secret protection for our drug candidates, the methods used to manufacture those drug candidates and the methods for treating patients using those drug candidates.

Our ability to obtain patents is uncertain because legal means afford only limited protections and may not adequately protect our rights or permit us to gain or keep any competitive advantage. Some legal principles remain unresolved and the breadth or interpretation of claims allowed in patents in the United States, the European Union or elsewhere can still be difficult to ascertain or predict. In addition, the specific content of patents and patent applications that are necessary to support and interpret patent claims is highly uncertain due to the complex nature of the relevant legal, scientific and factual issues. Changes in either patent laws or in interpretations of patent laws in the United States, the European Union or elsewhere may diminish the value of our intellectual property or narrow the scope of our patent protection. Our existing patents and any future patents we obtain may not be sufficiently broad to prevent others from practicing our technologies or from developing competing products and technologies. In addition, we generally do not control the patent prosecution of subject matter that we license from others and have not controlled the earlier stages of the patent prosecution. Accordingly, we are unable to exercise the same degree of control over this intellectual property as we would over our own.

Even if patents are issued regarding our drug candidates or methods of using them, those patents can be challenged by our competitors who may argue such patents are invalid and/or unenforceable. Patents also will not protect our drug candidates if competitors devise ways of making or using these product candidates without legally infringing our patents. The FDA and FDA regulations and policies and equivalents in other jurisdictions provide incentives to manufacturers to challenge patent validity or create modified, non-infringing versions of a drug in order to facilitate the approval of abbreviated new drug applications for generic substitutes. These same types of incentives encourage manufacturers to submit NDAs that rely on literature and clinical data not prepared for or by the drug sponsor.

Proprietary trade secrets and unpatented know-how are also very important to our business. We rely on trade secrets to protect our technology, especially where we do not believe that patent protection is appropriate or obtainable. However, trade secrets are difficult to protect. Our employees, consultants, contractors, outside scientific collaborators and other advisors may unintentionally or willfully disclose our confidential information to competitors, and confidentiality agreements may not provide an adequate remedy in the event of unauthorized disclosure of confidential information. Enforcing a claim that a third-party obtained illegally and is using trade secrets is expensive and time consuming, and the outcome is unpredictable. Moreover, our competitors may independently develop equivalent knowledge, methods and know-how. Failure to obtain or maintain trade secret protection could adversely affect our competitive business position.

If we do not obtain protection under the Hatch-Waxman Act and similar legislation outside of the United States by extending the patent terms and obtaining data exclusivity for our product candidates, our business may be materially harmed.

Depending upon the timing, duration and specifics of FDA marketing approval of our product candidates, if any, one or more of our United States patents may be eligible for limited patent term restoration under the Drug Price Competition and Patent Term Restoration Act of 1984, referred to as the Hatch-Waxman Act. The Hatch-Waxman Act permits a patent restoration term of up to five years as compensation for patent term lost during product development and the FDA regulatory review process. However, we may not be granted an extension because, for example, of failing to apply within applicable deadlines, failing to apply prior to expiration of relevant patents or otherwise failing to satisfy applicable requirements. Moreover, the applicable time period or the scope of patent protection afforded could be less than we request. If we are unable to obtain patent term extension or restoration or the term of any such extension is less than what we request, the period during which we will have the right to exclusively market our product will be shortened and our competitors may obtain approval of competing products following our patent expiration, and our revenue could be reduced, possibly materially.

We may be subject to damages resulting from claims that our employees or we have wrongfully used or disclosed alleged trade secrets of former employers.

Many of our employees were previously employed at universities or other biotechnology or pharmaceutical companies, including our competitors or potential competitors. Although no claims against us are currently pending, we may be subject to claims that these employees or we have inadvertently or otherwise used or disclosed trade secrets or other proprietary information of their former employers. Litigation may be necessary to defend against these claims. If we fail in defending such claims, in addition to paying monetary damages, we may lose valuable intellectual property rights or personnel. A loss of key research personnel or their work product could hamper or prevent our ability to commercialize certain potential drugs, which could severely harm our business. Even if we are successful in defending against these claims, litigation could result in substantial costs and be a distraction to management.

Confidentiality agreements with employees and others may not adequately prevent disclosure of our trade secrets and other proprietary information and may not adequately protect our intellectual property, which could limit our ability to compete.

Because we operate in the highly technical field of drug discovery and development of small molecule drugs, we rely in part on trade secret protection in order to protect our proprietary technology and processes. However, trade secrets are difficult to protect. We enter into confidentiality and intellectual property assignment agreements with our corporate partners, employees, consultants, outside scientific collaborators, sponsored researchers, and other advisors. These agreements generally require that the other party keep confidential and not disclose to third parties all confidential information developed by the party or made known to the party by us during the course of the party's relationship with us. These agreements also generally provide that inventions conceived by the party in the course of rendering services to us will be our exclusive property. However, these agreements may not be honored and may not effectively assign intellectual property rights to us. Enforcing a claim that a party illegally obtained and is using our trade secrets is difficult, expensive and time consuming, and the outcome is unpredictable. In addition, courts outside the United States may be less willing to protect trade secrets. The failure to obtain or maintain trade secret protection could adversely affect our competitive position.

Intellectual property rights of third parties may increase our costs or delay or prevent us from being able to commercialize our drug candidates.

There is a risk that we are infringing or will infringe on the proprietary rights of third parties because patents and pending applications belonging to third parties exist in the United States, the European Union and elsewhere in the world in the areas of our research. Others might have been the first to make the inventions covered by each of our or our licensors' pending patent applications and issued patents and might have been the first to file patent applications for these inventions. We are aware of several published patent applications, and understand that others may exist, that could support claims that, if granted and held valid, could cover various aspects of our developmental programs, including in some cases particular uses of our drug candidates fadraciclib, plogosertib, or substances, processes and techniques that we use in the course of our research and development and manufacturing processes. We are aware that other patents exist that claim substances, processes, techniques and methods of use, which, if held valid, could potentially restrict the scope of our research, development or manufacturing operations. In addition, we understand that other applications and patents exist relating to potential uses of fadraciclib and plogosertib that are not part of our current clinical programs for these compounds. Numerous third-party United States and foreign issued patents and pending applications exist in the area of kinases, including CDK and PLK for which we have research programs. For example, some pending patent applications contain broad claims that could represent freedom to operate limitations for some of our kinase programs should they be issued unchanged. Although we intend to continue to monitor these applications, we cannot predict what claims will ultimately be allowed and if allowed what their scope would be. In addition, because the patent application process can take several years to complete, there may be currently pending applications, unknown to us, which may later result in issued patents that cover the production, manufacture, commercialization or use of our drug candidates. If we wish to use the technology or compound claimed in issued and unexpired patents owned by others, we will need to obtain a license from the owner, enter into litigation to challenge the validity of the patents or incur the risk of litigation in the event that the owner asserts that we infringe its patents. In one case we have opposed a European patent relating to human aurora kinase and the patent was finally revoked (with no appeal filed).

There has been substantial litigation and other proceedings regarding patent and other intellectual property rights in the pharmaceutical and biotechnology industries. Defending against third party claims, including litigation in particular, would be costly and time-consuming and would divert management's attention from our business, which could lead to delays in our development or commercialization efforts. If third parties are successful in their claims, we might have to pay substantial damages or take other actions that are adverse to our business. As a result of intellectual property infringement claims, or to avoid potential claims, we might:

- be prohibited from selling or licensing any product that we may develop unless the patent holder licenses the patent to us, which it is not required to do;
- be required to pay substantial royalties or grant a cross license to our patents to another patent holder; decide to locate some of our research, development or manufacturing operations outside of Europe or the United States;
- be required to pay substantial damages for past infringement, which we may have to pay if a court determines that our product candidates or technologies infringe a competitor's patent or other proprietary rights; or
- be required to redesign the manufacturing process or formulation of a drug candidate so it does not infringe, which may not be possible or could require substantial funds and time.

We may incur substantial costs as a result of litigation or other proceedings relating to patent and other intellectual property rights.

If we choose to go to court to stop another party from using the inventions claimed in any patents we obtain, that individual or company has the right to ask the court to rule that such patents are invalid or should not be enforced against that third party. These lawsuits are expensive and would consume time and resources and divert the attention of managerial and scientific personnel even if we were successful in stopping the infringement of such patents. In addition, there is a risk that the court will decide that such patents are not valid and that we do not have the right to stop the other party from using the inventions.

There is also a risk that, even if the validity of such patents is upheld, the court will refuse to stop the other party on the ground that such other party's activities do not infringe our rights to such patents. In addition, the United States Supreme Court has recently modified some tests used by the United States Patent and Trademark Office, or USPTO, in granting patents over the past 20 years, which may decrease the likelihood that we will be able to obtain patents and increase the likelihood of challenge of any patents we obtain or license.

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 USPTO 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. The USPTO and various non-United States governmental patent agencies require compliance with a number of procedural, documentary, fee payment and other similar provisions during the patent application process. 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 noncompliance 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.

The patent applications of pharmaceutical and biotechnology companies involve highly complex legal and factual questions, which, if determined adversely to us, could negatively impact our patent position.

The patent positions of pharmaceutical and biotechnology companies can be highly uncertain and involve complex legal and factual questions. The U.S. Patent and Trademark Office's, or USPTO's, standards are uncertain and could change in the future. Consequently, the issuance and scope of patents cannot be predicted with certainty. Patents, if issued, may be challenged, invalidated or circumvented.

U.S. patents and patent applications may also be subject to interference proceedings, and U.S. patents may be subject to *Inter Partes* Review (IPR), Post Grant Review (PGR) or reexamination proceedings in the USPTO (and foreign patents may be subject to opposition or comparable proceedings in the corresponding foreign patent office), which proceedings could result in either loss of the patent or denial of the patent application or loss or reduction in the scope of one or more of the claims of the patent or patent application. Similarly, opposition or invalidity proceedings could result in loss of rights or reduction in the scope of one or more claims of a patent in foreign jurisdictions. In addition, such interference, reexamination and opposition proceedings may be costly. Accordingly, rights under any issued patents may not provide us with sufficient protection against competitive products or processes.

If we fail to obtain and maintain patent protection and trade secret protection of our product candidates, proprietary technologies and their uses, we could lose our competitive advantage and competition we face would increase, reducing our potential revenues and adversely affecting our ability to attain or maintain profitability.

Risks Related to Securities Regulations and Investment in Our Securities

Failure to achieve and maintain internal controls in accordance with Sections 302 and 404 of the Sarbanes-Oxley Act of 2002 could have a material adverse effect on our business and stock price.

Section 404 of the Sarbanes-Oxley Act of 2002 requires that we maintain internal control over financial reporting that meets applicable standards. As with many smaller companies with small staff, material weaknesses in our financial controls and procedures may be discovered. If we fail to maintain our internal controls or fail to implement required new or improved controls, as such control standards are modified, supplemented or amended from time to time, we may not be able to conclude on an ongoing basis that we have effective internal controls over financial reporting. Effective internal controls are necessary for us to produce reliable financial reports and are important in the prevention of financial fraud. If we cannot produce reliable financial reports or prevent fraud, our business and operating results could be harmed.

We incur increased costs and management resources as a result of being a public company, and we may fail to comply with public company obligations.

As a public company, we face and will continue to face increased legal, accounting, administrative and other costs and expenses that we would not incur as a private company. Compliance with the Sarbanes Oxley Act of 2002, as well as other rules of the SEC, the Public Company Accounting Oversight Board and Nasdaq resulted in a significant initial cost to us as well as an ongoing compliance cost. As a public company, we are subject to Section 404 of the Sarbanes Oxley Act relating to internal control over financial reporting. We have completed a formal process to evaluate our internal controls for purposes of Section 404, and we concluded that as of December 31, 2022, our internal control over financial reporting was effective. As our business grows and changes, there can be no assurances that we can maintain the effectiveness of our internal controls over financial reporting. In addition, our independent certified public accounting firm has not provided an opinion on the effectiveness of our internal controls over financial reporting for the year ended December 31, 2022 because we are a smaller reporting company. In the event our independent auditor is required to provide an opinion on such controls in the future, there is a risk that the auditor would conclude that such controls are ineffective.

Effective internal controls over financial reporting are necessary for us to provide reliable financial reports and, together with adequate disclosure controls and procedures, are designed to prevent fraud. If we cannot provide reliable financial reports or prevent fraud, our operating results could be harmed. We have completed a formal process to evaluate our internal control over financial reporting. However, guidance from regulatory authorities in the area of internal controls continues to evolve and substantial uncertainty exists regarding our on-going ability to comply by applicable deadlines. Any failure to implement required new or improved controls, or difficulties encountered in their implementation, could harm our operating results or cause us to fail to meet our reporting obligations. Ineffective 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 common stock.

Our common stock may have a volatile public trading price.

An active public market for our common stock has not developed. Our stock can trade in small volumes which may make the price of our stock highly volatile. The last reported price of our stock may not represent the price at which you would be able to buy or sell the stock. The market prices for securities of companies comparable to us have been highly volatile. Often, these stocks have experienced significant price and volume fluctuations for reasons that are both related and unrelated to the operating performance of the individual companies. In addition, the stock market as a whole and biotechnology and other life science stocks in particular have experienced significant recent volatility. Like our common stock, these stocks have experienced significant price and volume fluctuations for reasons unrelated to the operating performance of the individual companies. Factors giving rise to this volatility may include:

- disclosure of actual or potential clinical results with respect to product candidates we are developing;
- regulatory developments in both the United States and abroad;
- developments concerning proprietary rights, including patents and litigation matters;
- public concern about the safety or efficacy of our product candidates or technology, or related technology, or new technologies generally;
- concern about the safety or efficacy of our product candidates or technology, or related technology, or new technologies generally;
- public announcements by our competitors or others; and
- general market conditions and comments by securities analysts and investors.

Fluctuations in our operating losses could adversely affect the price of our common stock.

Our operating losses may fluctuate significantly on a quarterly basis. Some of the factors that may cause our operating losses to fluctuate on a period-to-period basis include the status of our preclinical and clinical development programs, level of expenses incurred in connection with our preclinical and clinical development programs, implementation or termination of collaboration, licensing, manufacturing or other material agreements with third parties, non-recurring revenue or expenses under any such agreement, and compliance with regulatory requirements. Period-to-period comparisons of our historical and future financial results may not be meaningful, and investors should not rely on them as an indication of future performance. Our fluctuating losses may fail to meet the expectations of securities analysts or investors. Our failure to meet these expectations may cause the price of our common stock to decline.

If securities or industry analysts do not publish research or reports about us, if they change their recommendations regarding our stock adversely or if our operating results do not meet their expectations, our stock price and trading volume could decline.

The trading market for our common stock is influenced by the research and reports that industry or securities analysts publish about us. If analysts do not publish research reports or one or more of these analysts who were publishing research cease coverage of us or fail to regularly publish reports on us, we could lose visibility in the financial markets, which in turn could cause our stock price or trading volume to decline. Moreover, if one or more of the analysts who cover us downgrade our stock or if our operating results do not meet their expectations, our stock price could decline.

Anti-takeover provisions in our charter documents and provisions of Delaware law may make an acquisition more difficult and could result in the entrenchment of management.

We are incorporated in Delaware. Anti-takeover provisions of Delaware law and our amended and restated certificate of incorporation and amended and restated bylaws may make a change in control or efforts to remove management more difficult. Also, under Delaware law, our Board of Directors may adopt additional anti-takeover measures.

We have the authority to issue up to 5 million shares of preferred stock and to determine the terms of those shares of stock without any further action by our stockholders. If the Board of Directors exercises this power to issue preferred stock, it could be more difficult for a third party to acquire a majority of our outstanding voting stock and vote the stock they acquire to remove management or directors. Our amended and restated certificate of incorporation and amended and restated bylaws also provides staggered terms for the members of our Board of Directors. Under Section 141 of the Delaware General Corporation Law, our directors may be removed by stockholders only for cause and only by vote of the holders of a majority of voting shares then outstanding. These provisions may prevent stockholders from replacing the entire board in a single proxy contest, making it more difficult for a third party to acquire control of us without the consent of our Board of Directors. These provisions could also delay the removal of management by the Board of Directors with or without cause. In addition, our directors may only be removed for cause and amended and restated bylaws limit the ability of our stockholders to call special meetings of stockholders.

As at September 30, 2023, we had 335,273 shares of 6% Convertible Exchangeable Preferred Stock, 237,745 shares of Series B Preferred Stock and 264 shares of Series A Preferred Stock issued and outstanding.

Under Section 203 of the Delaware General Corporation Law, a corporation may not engage in a business combination with any holder of 15% or more of its capital stock until the holder has held the stock for three years unless, among other possibilities, the Board of Directors approves the transaction. Our Board of Directors could use this provision to prevent changes in management. The existence of the foregoing provisions could limit the price that investors might be willing to pay in the future for shares of our common stock.

Certain severance-related agreements in our executive employment agreements may make an acquisition more difficult and could result in the entrenchment of management.

In March 2008 (as subsequently amended, and most recently renewed as of January 1, 2023), we entered into employment agreements with our President and Chief Executive Officer and our Executive Vice President, Finance, Chief Financial Officer and Chief Operating Officer, which contain severance arrangements in the event that such executive's employment is terminated without "cause" or as a result of a "change of control" (as each such term is defined in each agreement). The financial obligations triggered by these provisions may prevent a business combination or acquisition that would be attractive to stockholders and could limit the price that investors would be willing to pay in the future for our stock.

In the event of an acquisition of our common stock, we cannot assure our common stockholders that we will be able to negotiate terms that would provide for a price equivalent to, or more favorable than, the price at which our shares of common stock may be trading at such time.

We may not effect a consolidation or merger with another entity without the vote or consent of the holders of at least a majority of the shares of our preferred stock (in addition to the approval of our common stockholders), unless the preferred stock that remains outstanding and its rights, privileges and preferences are unaffected or are converted into or exchanged for preferred stock of the surviving entity having rights, preferences and limitations substantially similar, but no less favorable, to our convertible preferred stock.

In addition, in the event a third party seeks to acquire our company or acquire control of our company by way of a merger, but the terms of such offer do not provide for our preferred stock to remain outstanding or be converted into or exchanged for preferred stock of the surviving entity having rights, preferences and limitations substantially similar, but no less favorable, to our preferred stock, the terms of the Certificate of Designations of our preferred stock provide for an adjustment to the conversion ratio of our preferred stock such that, depending on the terms of any such transaction, preferred stockholders may be entitled, by their terms, to receive up to \$10.00 per share in common stock, causing our common stockholders not to receive as favorable a price as the price at which such shares may be trading at the time of any such transaction. As of September 30, 2023, there were 335,273 shares of our preferred stock issued and outstanding. If the transaction were one in which proceeds were received by us for distribution to stockholders, and the terms of the Certificate of Designations governing the preferred stock were strictly complied with, approximately \$4.0 million would be paid to the preferred holders before any distribution to the common stockholders, although the form of transaction could affect how the holders of preferred stock are treated. In such an event, although such a transaction would be subject to the approval of our holders of common stock, we cannot assure our common stockholders that we will be able to negotiate terms that would provide for a price equivalent to, or more favorable than, the price at which our shares of common stock may be trading at such time. Thus, the terms of our preferred stock might hamper a third party's acquisition of our company.

Our certificate of incorporation and bylaws and certain provisions of Delaware law may delay or prevent a change in our management and make it more difficult for a third-party to acquire us.

Our amended and restated certificate of incorporation and bylaws contain provisions that could delay or prevent a change in our Board of Directors and management teams. Some of these provisions:

- authorize the issuance of preferred stock that can be created and issued by the Board of Directors without prior stockholder approval, commonly referred to as “blank check” preferred stock, with rights senior to those of our common stock;
- provide for the Board of Directors to be divided into three classes; and
- require that stockholder actions must be effected at a duly called stockholder meeting and prohibit stockholder action by written consent.

In addition, because we are incorporated in Delaware, we are governed by the provisions of Section 203 of the Delaware General Corporation Law, which limits the ability of large stockholders to complete a business combination with, or acquisition of, us. These provisions may prevent a business combination or acquisition that would be attractive to stockholders and could limit the price that investors would be willing to pay in the future for our stock.

These provisions also make it more difficult for our stockholders to replace members of our Board of Directors. Because our Board of Directors is responsible for appointing the members of our management team, these provisions could in turn affect any attempt to replace our current management team. Additionally, these provisions may prevent an acquisition that would be attractive to stockholders and could limit the price that investors would be willing to pay in the future for our common stock.

We may have limited ability to pay cash dividends on our preferred stock, and there is no assurance that future quarterly dividends will be declared.

Delaware law may limit our ability to pay cash dividends on our preferred stock. Under Delaware law, cash dividends on our preferred stock may only be paid from surplus or, if there is no surplus, from the corporation's net profits for the current or preceding fiscal year. Delaware law defines "surplus" as the amount by which the total assets of a corporation, after subtracting its total liabilities, exceed the corporation's capital, as determined by its board of directors.

Since we are not profitable, our ability to pay cash dividends will require the availability of an adequate surplus. Even if adequate surplus is available to pay cash dividends on our preferred stock, we may not have sufficient cash to pay dividends on the preferred stock or we may choose not to declare the dividends.

Our common and preferred stock may experience extreme price and volume fluctuations, which could lead to costly securities-related litigation, including securities class action litigation or securities-related investigations, which could make an investment in us less appealing.

The market price of our common and preferred stock may fluctuate substantially due to a variety of factors, including:

- announcements of technological innovations or new products or services by us or our competitors; announcements concerning our competitors or the biotechnology industry in general;
- new regulatory pronouncements and changes in regulatory guidelines;
- general and industry-specific economic conditions;
- additions to or departures of our key personnel;
- changes in financial estimates or recommendations by securities analysts;
- variations in our quarterly results; and
- announcements about our collaborators or licensors; and
- changes in accounting principles

The stock markets have from time-to-time experienced significant price and volume fluctuations that have affected the market prices for publicly traded securities. The market prices of the securities of biotechnology companies, particularly companies like us without product revenues and earnings, have been highly volatile and are likely to remain highly volatile in the future. This volatility has often been unrelated to the performance of particular companies. In the past, companies that experience volatility in the market price of their securities have often faced securities class action and derivative litigation, and as a public company, we could be subject to sanctions or investigations by Nasdaq, the SEC or other regulatory authorities. Moreover, market prices for stocks of biotechnology-related and technology companies frequently reach levels that bear no relationship to the performance of these companies. These market prices generally are not sustainable and are highly volatile.

Whether or not meritorious, litigation brought against us could result in substantial costs, divert our management's attention and resources and harm our financial condition and results of operations.

The future sale of our common and convertible preferred stock and future issuances of our common stock upon conversion of our preferred stock could negatively affect our stock price and cause dilution to existing holders of our common stock.

If our common or preferred stockholders sell substantial amounts of our stock in the public market, or the market perceives that such sales may occur, the market price of our common and preferred stock could fall. If additional holders of convertible preferred stock elect to convert their shares to shares of common stock at renegotiated prices, such conversion as well as the sale of substantial amounts of our common stock, could cause dilution to existing holders of our common stock, thereby also negatively affecting the price of our common stock. For example, in 2013, we issued an aggregate of 9,358 shares of our common stock in exchange for an aggregate of 877,869 shares of our preferred stock in arms-length negotiations between us and the other parties who had approached us to propose the exchanges.

If we exchange the convertible preferred stock for debentures, the exchange will be taxable, but we will not provide any cash to pay any tax liability that any convertible preferred stockholder may incur.

An exchange of convertible preferred stock for debentures, as well as any dividend make-whole or interest make-whole payments paid in our common stock, will be taxable events for United States federal income tax purposes, which may result in tax liability for the holder of convertible preferred stock without any corresponding receipt of cash by the holder. In addition, the debentures may be treated as having original issue discount, a portion of which would generally be required to be included in the holder's gross income even though the cash to which such income is attributable would not be received until maturity or redemption of the debenture. We will not distribute any cash to the holders of the securities to pay these potential tax liabilities.

If we automatically convert the convertible preferred stock, there is a substantial risk of fluctuation in the price of our common stock from the date we elect to automatically convert to the conversion date.

We may automatically convert the convertible preferred stock into common stock if the closing price of our common stock exceeds \$888,300 per share. There is a risk of fluctuation in the price of our common stock between the time when we may first elect to automatically convert the preferred and the automatic conversion date.

We do not intend to pay cash dividends on our common stock in the foreseeable future.

We do not anticipate paying cash dividends on our common stock in the foreseeable future. Any payment of cash dividends will depend on our financial condition, results of operations, capital requirements, the outcome of the review of our strategic alternatives and other factors and will be at the discretion of our Board of Directors. Accordingly, investors will have to rely on capital appreciation, if any, to earn a return on their investment in our common stock. Furthermore, we may in the future become subject to contractual restrictions on, or prohibitions against, the payment of dividends.

The number of shares of common stock which are registered, including the shares to be issued upon exercise of our outstanding warrants, is significant in relation to our currently outstanding common stock and could cause downward pressure on the market price for our common stock.

The number of shares of common stock registered for resale, including those shares which are to be issued upon exercise of our outstanding warrants, is significant in relation to the number of shares of common stock currently outstanding. If the security holder determines to sell a substantial number of shares into the market at any given time, there may not be sufficient demand in the market to purchase the shares without a decline in the market price for our common stock. Moreover, continuous sales into the market of a number of shares in excess of the typical trading volume for our common stock, or even the availability of such a large number of shares, could depress the trading market for our common stock over an extended period of time.

If persons engage in short sales of our common stock, including sales of shares to be issued upon exercise of our outstanding warrants, the price of our common stock may decline.

Selling short is a technique used by a stockholder to take advantage of an anticipated decline in the price of a security. In addition, holders of options and warrants will sometimes sell short knowing they can, in effect, cover through the exercise of an option or warrant, thus locking in a profit. A significant number of short sales or a large volume of other sales within a relatively short period of time can create downward pressure on the market price of a security. Further sales of common stock issued upon exercise of our outstanding warrants could cause even greater declines in the price of our common stock due to the number of additional shares available in the market upon such exercise, which could encourage short sales that could further undermine the value of our common stock. You could, therefore, experience a decline in the value of your investment as a result of short sales of our common stock.

We are exposed to risks related to the marketable securities we may purchase.

We may invest cash not required to meet short-term obligations in short term marketable securities. We may purchase securities in United States government, government-sponsored agencies and highly rated corporate and asset-backed securities subject to an approved investment policy. Historically, investment in these securities has been highly liquid and has experienced only very limited defaults. However, recent volatility in the financial markets has created additional uncertainty regarding the liquidity and safety of these investments. Although we believe our marketable securities investments are safe and highly liquid, we cannot guarantee that our investment portfolio will not be negatively impacted by recent or future market volatility or credit restrictions.

Claims for indemnification by our directors and officers may reduce our available funds to satisfy successful stockholder claims against us and may reduce the amount of money available to us.

As permitted by Section 102(b)(7) of the Delaware General Corporation Law, our restated certificate of incorporation limits the liability of our directors to the fullest extent permitted by law. In addition, as permitted by Section 145 of the Delaware General Corporation Law, our restated certificate of incorporation and restated bylaws provide that we shall indemnify, to the fullest extent authorized by the Delaware General Corporation Law, each person who is involved in any litigation or other proceeding because such person is or was a director or officer of our company or is or was serving as an officer or director of another entity at our request, against all expense, loss or liability reasonably incurred or suffered in connection therewith. Our restated certificate of incorporation provides that the right to indemnification includes the right to be paid expenses incurred in defending any proceeding in advance of its final disposition, provided, however, that such advance payment will only be made upon delivery to us of an undertaking, by or on behalf of the director or officer, to repay all amounts so advanced if it is ultimately determined that such director is not entitled to indemnification.

If we do not pay a proper claim for indemnification in full within 60 days after we receive a written claim for such indemnification, except in the case of a claim for an advancement of expenses, in which case such period is 20 days, our restated certificate of incorporation and our restated bylaws authorize the claimant to bring an action against us and prescribe what constitutes a defense to such action.

Section 145 of the Delaware General Corporation Law permits a corporation to indemnify any director or officer of the corporation against expenses (including attorney's fees), judgments, fines and amounts paid in settlement actually and reasonably incurred in connection with any action, suit or proceeding brought by reason of the fact that such person is or was a director or officer of the corporation, if such person acted in good faith and in a manner that he reasonably believed to be in, or not opposed to, the best interests of the corporation, and, with respect to any criminal action or proceeding, if he or she had no reason to believe his or her conduct was unlawful. In a derivative action, (i.e., one brought by or on behalf of the corporation), indemnification may be provided only for expenses actually and reasonably incurred by any director or officer in connection with the defense or settlement of such an action or suit if such person acted in good faith and in a manner that he or she reasonably believed to be in, or not opposed to, the best interests of the corporation, except that no indemnification shall be provided if such person shall have been adjudged to be liable to the corporation, unless and only to the extent that the court in which the action or suit was brought shall determine that the defendant is fairly and reasonably entitled to indemnity for such expenses despite such adjudication of liability.

The rights conferred in the restated certificate of incorporation and the restated bylaws are not exclusive, and we are authorized to enter into indemnification agreements with our directors, officers, employees and agents and to obtain insurance to indemnify such persons. We have entered into indemnification agreements with each of our officers and directors.

The above limitations on liability and our indemnification obligations limit the personal liability of our directors and officers for monetary damages for breach of their fiduciary duty as directors by shifting the burden of such losses and expenses to us. Although we obtained coverage under our directors' and officers' liability insurance, certain liabilities or expenses covered by our indemnification obligations may not be covered by such insurance or the coverage limitation amounts may be exceeded. As a result, we may need to use a significant amount of our funds to satisfy our indemnification obligations, which could severely harm our business and financial condition and limit the funds available to stockholders who may choose to bring a claim against our company.

Risks Relating to Restatement of our Consolidated Financial Statements

We have had to restate our previously issued consolidated financial statements and, as part of that process, have identified a material weakness in our internal control over financial reporting as of December 31, 2022. If we are unable to develop and maintain effective internal control over financial reporting, we may not be able to accurately report our financial results in a timely manner, which may adversely affect investor confidence in us and may adversely affect our business, financial condition and results of operations.

A material weakness is a deficiency, or a combination of deficiencies, in internal control over financial reporting, such that there is a reasonable possibility that a material misstatement of our annual or interim financial statements will not be prevented or detected on a timely basis. Effective internal control over financial reporting is necessary for us to provide reliable financial reporting and prevent fraud. We continue to evaluate steps to remediate the material weakness. These remediation measures may be time consuming and costly, and there is no assurance that these initiatives will ultimately have the intended effects. Any failure to maintain effective internal control over financial reporting could adversely impact our ability to report our financial position and results from operations on a timely and accurate basis. If our financial statements are not accurate, investors may not have a complete understanding of our operations. Likewise, if our financial statements are not filed on a timely basis, we could be subject to sanctions or investigations by the stock exchange on which our common stock is listed, the SEC or other regulatory authorities. In either case, there could be an adverse effect on our business, financial condition and results of operations. Ineffective internal control over financial reporting 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.

We can provide no assurance that the measures we are taking and plan to take in the future will remediate the material weakness identified or that any additional material weaknesses or restatements of financial results will not arise in the future due to a failure to implement and maintain adequate internal control over financial reporting or circumvention of these controls. In addition, even if we are successful in strengthening our controls and procedures, in the future those controls and procedures may not be adequate to prevent or identify irregularities or errors or to facilitate the fair presentation of our consolidated financial statements.

We may face litigation and other risks as a result of the restatement of our previously issued consolidated financial statements contained in Amendment No. 1 to the Form 10-K for the fiscal year ended December 31, 2022 and material weakness in our internal control over financial reporting.

As part of the restatement of our previously issued consolidated financial statements contained in Amendment No. 1 to the Form 10-K for the fiscal year ended December 31, 2022, we identified a material weakness in our internal control over financial reporting. As a result of such material weakness, the restatement and other matters raised or that may in the future be raised by the SEC, we face potential for litigation or other disputes which may include, among others, claims invoking the federal and state securities laws, contractual claims or other claims arising from the restatement and the material weakness in our internal control over financial reporting and the preparation of our financial statements. As of the date of this report, we have no knowledge of any such litigation or dispute. However, we can provide no assurance that such litigation or dispute will not arise in the future. Any such litigation or dispute, whether successful or not, could adversely affect our business, financial condition and results of operations.

SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

This prospectus may contain forward-looking statements that involve risks and uncertainties. These statements are based on our management's current beliefs, expectations and assumptions about future events, conditions and results and on information currently available to us. Discussions containing these forward-looking statements may be found, among other places, in the sections titled "Business," "Risk Factors" and "Management's Discussion and Analysis of Financial Condition and Results of Operations".

Any statements in this prospectus about our expectations, beliefs, plans, objectives, assumptions or future events or performance are not historical facts and are forward-looking statements. Within the meaning of Section 27A of the Securities Act of 1933, as amended, or the Securities Act, and Section 21E of the Securities Exchange Act of 1934, as amended, or the Exchange Act, these forward-looking statements include statements regarding:

- the size and growth potential of the markets for our products, and our ability to serve those markets;
- the rate and degree of market acceptance of our products;
- our ability to expand our sales organization to address effectively existing and new markets that we intend to target;
- the impact from future regulatory, judicial, and legislative changes or developments in the U.S. and foreign countries;
- our ability to compete effectively in a competitive industry;
- the success of competing technologies that are or may become available;
- the performance of any third-party contract sales organizations, suppliers and manufacturers;
- our ability to attract and retain key scientific or management personnel;
- the accuracy of our estimates regarding expenses, future revenues, reimbursement rates, capital requirements and needs for additional financing;
- our ability to comply with the covenants and satisfy certain conditions of any debt facility;
- our ability to obtain funding for our operations; and
- our ability to attract collaborators and strategic partnerships.

In some cases, you can identify forward-looking statements by terminology such as "anticipate," "believe," "continue," "could," "estimate," "expects," "intend," "may," "might," "plan," "potential," "predict," "project," "should," "will," "would" or the negative or plural of those terms, and similar expressions intended to identify statements about the future, although not all forward-looking statements contain these words. These statements involve known and unknown risks, uncertainties and other factors that may cause our actual results, levels of activity, performance or achievements to be materially different from the information expressed or implied by these forward-looking statements. In addition, statements that "we believe" and similar statements reflect our beliefs and opinions on the relevant subject. These statements are based upon information available to us as of the date of this prospectus, and while we believe such information forms a reasonable basis for such statements, such information may be limited or incomplete, and our statements should not be read to indicate that we have conducted an exhaustive inquiry into, or review of, all potentially available relevant information. These statements are inherently uncertain and investors are cautioned not to unduly rely upon these statements.

You should refer to the risks and uncertainties described in the “Risk Factors” section contained in this prospectus for a discussion of important factors that may cause our actual results to differ materially from those expressed or implied by our forward-looking statements. Given these risks, uncertainties and other factors, many of which are beyond our control, we cannot assure you that the forward-looking statements in this prospectus will prove to be accurate, and you should not place undue reliance on these forward-looking statements. Furthermore, if our forward-looking statements prove to be inaccurate, the inaccuracy may be material. In light of the significant uncertainties in these forward-looking statements, you should not regard these statements as a representation or warranty by us or any other person that we will achieve our objectives and plans in any specified time frame, or at all.

Except as required by law, we assume no obligation to update these forward-looking statements publicly, or to revise any forward-looking statements to reflect events or developments occurring after the date of this prospectus, even if new information becomes available in the future.

USE OF PROCEEDS

We will not receive any of the proceeds from the sale of securities by the selling security holders pursuant to this prospectus. However, the Company will receive the proceeds of any cash exercise of the Private Warrants. If all of the Private Warrants were exercised for cash, we would receive aggregate proceeds of approximately \$1.24 million. If we receive proceeds, we currently intend to use the proceeds for general corporate purposes, including working capital.

MARKET FOR OUR COMMON STOCK

Market Information

Our common stock currently trades under the symbol “CYCC” on Nasdaq.

Stockholders

As of February 6, 2024, there were approximately 11 stockholders of record.

DIVIDEND POLICY

We have never declared or paid any cash dividends on our common stock and do not expect to pay any cash dividends on our common stock for the foreseeable future. We intend to use future earnings, if any, in the operation and expansion of our business. Any future determination relating to our dividend policy will be made at the discretion of our board of directors, based on our financial condition, results of operations, contractual restrictions, capital requirements, business properties, restrictions imposed by applicable law and other factors our board of directors may deem relevant.

BUSINESS

The following Business Section contains forward-looking statements. Our actual results could differ materially from those anticipated in these forward-looking statements as a result of certain risks, uncertainties and other factors including the risk factors set forth in Part I, Item 1A of this Annual Report on Form 10-K. In this report, “Cyclacel,” the “Company,” “we,” “us,” and “our” refer to Cyclacel Pharmaceuticals, Inc.

General

We are a clinical-stage biopharmaceutical company working to develop innovative cancer medicines based on cell cycle, transcriptional regulation, epigenetics and mitosis biology. We are a pioneer company in the field of cancer cell cycle biology with a vision to improve patient healthcare by translating insights in cancer biology into medicines that can overcome resistance and ultimately increase a patient’s overall survival.

The transcriptional regulation program is evaluating fadraciclib, a CDK2/9 inhibitor, in solid tumors and hematological malignancies. The epigenetic/anti-mitotic program is evaluating plogosertib, a PLK1 inhibitor, in solid tumors and hematological malignancies. Our strategy is to build a diversified biopharmaceutical business based on a pipeline of novel drug candidates addressing oncology and hematology indications.

We have retained rights to commercialize our clinical development candidates and our business objective is to enter into selective partnership arrangements with these programs. Substantially all our efforts to date have been devoted to performing research and development, conducting clinical trials, developing and acquiring intellectual property, raising capital and recruiting and training personnel.

Cell Cycle Control Biology

Loss of control of the cell cycle, the process by which cells grow and divide, lies at the heart of cancer. In normal cells, a complex set of interacting proteins tightly regulates progression through the phases of the cell cycle by which a cell grows, replicates its DNA and divides. This process also includes mechanisms known as cell cycle checkpoints, to ensure all necessary events of each cell cycle phase are completed before beginning the next phase. Specific isoforms of cyclin dependent kinases, or CDKs, and Polo-like Kinases, or PLKs, are some of the key regulators among the numerous genes and proteins involved in cell cycle checkpoints. If checkpoint control events are not completed correctly, the cancer cells may commit suicide by a process of programmed cell death called apoptosis. We seek to enhance and facilitate apoptotic outcomes in cancer cells with the objective of containing the disease and benefiting patients with various cancers.

CDKs interact with proteins called cyclins to regulate cell cycle checkpoints and control transcription, DNA repair and metastatic spread. The discovery of CDKs and cyclins and their regulation of cell cycle checkpoint control were cited in the 2001 Nobel Prize in Physiology or Medicine. Our founder, Professor Sir David Lane, PhD, an internationally recognized authority in cell cycle biology who discovered p53, a key tumor suppressor that malfunctions in about two-thirds of human cancers, first identified CDK2/9 inhibition as an optimal target profile for transcriptionally active CDK inhibitors.

The lead drug in our transcriptional regulation program is fadraciclib (formerly known as CYC065).

Polo Kinases and other mitotic kinases were first discovered in fruit flies by our former Chief Scientist, Professor David Glover, PhD. PLK1 is a serine/threonine kinase playing a central role in cell division, or mitosis. In particular, PLK1 regulates mitotic entry, spindle formation, mitotic exit, cytokinesis and is an important regulator of the DNA damage checkpoint. Cancer cells are much more sensitive to PLK1 depletion than normal cells with intact cell cycle checkpoints. Inhibiting PLK1 blocks proliferation by prolonged mitotic arrest followed by onset of cancer cell death.

The lead drug in our anti-mitotic program is plogosertib (formerly known as CYC140).

Clinical Development Pipeline

Our pipeline of innovative medicines aims to provide safe and effective anticancer treatment options to patients combined with the convenience of oral administration. Our active and planned Phase 1/2 clinical studies use of oral administration as empirical data from our clinical studies suggests that daily dosing by the oral route is a preferred strategy for both our drugs. We also conducted certain early clinical studies using i.v. administration. The aim of the current streamlined studies is to assess safety and identify signals of clinical activity which may lead to registration-enabling outcomes.

The following table summarizes our current development programs:

PROGRAM	INDICATION	PHASE
Transcriptional Regulation		
Fadraciclib CDK inhibitor (oral)	Solid tumors – multiple cohorts defined by tumor histology and a basket cohort	Phase 1/2 to achieve proof of concept (in progress)
Fadraciclib CDK inhibitor (oral)	Leukemias – multiple cohorts defined by leukemia type and a basket cohort	Phase 1/2 to achieve proof of concept (in progress)
Mitosis Regulation		
Plogosertib PLK inhibitor (oral)	Solid tumors – multiple cohorts defined by tumor histology and a basket cohort	Phase 1/2 to achieve proof of concept (in progress)

NB: CDK: cyclin-dependent kinase; PLK: polo-like kinase.

We currently retain all global marketing rights to the compounds associated with our clinical-stage drug programs.

Transcriptional Regulation Program

Fadraciclib — Cyclin Dependent Kinase (CDK) Inhibitor

CDKs are a family of enzymes first discovered as regulators of the cell cycle, but now understood to also provide pivotal functions in the regulation of transcription, DNA repair and metastatic spread. Different CDK inhibitor drugs selectively target different sets of CDKs. The precise selectivity of an individual CDK inhibitor molecule for certain specific CDKs is key to targeting particular tumor types and minimizing undesirable side effects through non-specific or off-target activity.

The best characterized CDK enzymes include CDK2, -4, -6 and -9.

Following Professor Sir David Lane's insights, our drug discovery and development programs concentrated on the CDK2/9 isoforms, which operate as key components of the p53 pathway.

Pharmacological inhibition of the CDK2/9 isoforms, by medicines like fadraciclib, has been shown to have potent anticancer effects in preclinical and clinical studies against certain cancer types, including some that are resistant to approved treatments. It is hoped that treatment with fadraciclib will result in clinically relevant, tumor cell death in patients with selected cancer types. Fadraciclib inhibits CDK2, which is activated by Cyclin E, an oncogene to which cancer cells become addicted. CDK2/9 inhibitors may be able to overcome cyclin E-dependent resistance to CDK4/6 inhibitor plus hormone therapy regimens when given in combination with one or more of these agents.

The FDA approved CDK4/6 inhibitors, palbociclib, ribociclib and abemaciclib, represent an important therapeutic advance and are associated with clinically meaningful survival advantages with good tolerability when combined with hormone therapy versus hormone therapy alone in patients with hormone receptor positive, HER2-negative breast cancer. Recent clinical data show that treatment failure after CDK4/6 inhibitors is associated with amplification of cyclin E (Turner NC et al, *JCO*, 2019). Treatment of patients failing CDK4/6 inhibitors with CDK2/9 inhibitors, such as fadraciclib, may provide extended benefit to these patients. Preclinical data suggest that treatment of HER2-positive breast cancer cells resistant to standard of care trastuzumab with a combination of trastuzumab and fadraciclib results in regression of these difficult to treat cancer cells (Scaltriti M et al, *PNAS*, 2011).

Different CDKs are responsible for controlling different aspects of proliferation which, when dysregulated, can be drivers of particular cancer subsets. CDK2 and CDK9 inhibitors have been shown to induce apoptosis of cancer cells. CDK2/9 inhibition may also overcome aberrant cell cycle control in certain non-malignant diseases of proliferation.

Fadraciclib targets:

- CDK2, which drives cell cycle transition and is activated by cyclin E.
- CDK9, which regulates transcription of certain genes through phosphorylation of RNA polymerase II c-terminal domain Ser2, MCL1 mRNA and protein are labile (and turn over rapidly). Blocking CDK9-dependent transcription quickly leads to loss of MCL1 protein, resulting in apoptosis in MCL1-dependent cancer cells. Labile proteins rapidly depleted by short CDK9 inhibitor exposure include MCL1, MYCN, MYC, MYB, BCL2A1 and MDM2.
 - o MCL1 is overexpressed in many types of cancer acting as a survival and drug resistance mechanism.
 - o MYC proto-oncogenes encode MYC family proteins which are overexpressed in over 50% of human cancers often via gene amplification. MYC proteins are transcriptional regulators which promote cancer cell growth and survival by increasing the expression of target genes involved in cell metabolism and growth.
 - o Multiple studies show that knockdown of MCL1 and/or MYC lead to cancer cell death and resensitization to drug treatment.

Fadraciclib is a selective, second-generation inhibitor of CDK2/9 that causes apoptotic death of cancer cells at sub-micromolar concentrations and is bioavailable via oral and intravenous routes. Antitumor efficacy has been achieved in preclinical models with once-a-day oral dosing at well tolerated doses. Translational biology data support development of fadraciclib in MCL1 dependent cancers. In a Phase 1, first-in-human study of fadraciclib, prolonged reduction of MCL1 for at least 24 hours was achieved and anticancer activity observed. Fadraciclib has been shown to inhibit CDK9-dependent oncogenic and leukemogenic pathways, including MYCN and mixed lineage leukemia rearrangements, or MLL-r. Fadraciclib suppresses the MCL1-mediated survival pathway in cancer cells, leading to rapid induction of apoptosis in MCL1 dependent cancer cells, and can reverse drug resistance associated with the addiction of cancer cells to cyclin E, a partner protein of CDK2.

Clinical development

Solid tumors

Phase 1/2 Study in advanced solid tumors and lymphomas (CYC065-101, dosed orally, NCT04983810)

The ongoing study is an open-label, multicenter, Phase 1/2 registration-directed trial using a streamlined design. Phase 1 explores both schedule and escalating doses of oral fadraciclib as a single-agent in a 28-day cycle with a primary objective of identifying maximum tolerated dose or MTD and/or the recommended Phase 2 dose or RP2D. Once RP2D has been established, the trial will immediately enter proof-of-concept, cohort stage, using a Simon 2-stage design, where single agent fadraciclib will be administered to patients in up to eight cohorts defined by histology or molecular subtype thought to be sensitive to the drug's mechanism of action and informed by the clinical activity of fadraciclib in previous studies. The cohorts will include patients with breast cancer (selected for metastatic, hormone receptor positive, HER-2 negative, post-CDK4/6 inhibitor; HER-2 refractory; or triple negative), colorectal (including KRAS mutant), endometrial, hepatobiliary and ovarian cancers, and certain lymphomas. An additional basket cohort will enroll patients with mechanistically relevant biomarkers, including MCL1, MYC and cyclin E, regardless of histology. The protocol allows for expansion of a cohort based on response which may allow acceleration of the clinical development and registration plan for fadraciclib. The primary objective of Phase 2 is to achieve proof of concept and determine preliminary efficacy by overall response rate. Safety, pharmacokinetics or PK and efficacy will be investigated for all subjects. Exploratory objectives are to investigate clinical pharmacodynamics or PD and pharmacogenomics or PGx of fadraciclib. Positive preliminary data from the study was presented during a poster presentation at the 34th EORTC-NCI-AACR (ENA) Symposium on Molecular Targets and Cancer Therapeutics and at our R&D Day on October 31, 2022 a principal investigator from Seoul National University Hospital showed preclinical data demonstrating sensitivity to fadra in biliary tract and pancreatic cancer cells obtained from patient specimens.

In the 065-101 study of oral fadraciclib, CDK2/9 inhibitor, a total of 29 patients have been dosed to date as monotherapy through six dose levels.

Six patients have been treated on dose level 6A (125mg twice daily for 5 days per week, 4 out of 4 weeks). The sixth patient on dose level 6A with pancreatic cancer enrolled on the study experienced dose-limiting toxicity (or DLT) of hyperglycemia. The patient, who has a diabetic profile history and was on metformin treatment, remains on study as blood glucose level was managed. A previous patient on dose level 6A with a pre-diabetic profile had DLT of hyperglycemia which resolved rapidly.

The previous dose level 5 (100mg twice daily for 5 days per week, 4 out of 4 weeks) on this schedule accrued six patients with no DLT and per protocol is safe for continued development.

Dose level 6B (150mg once daily for 7 days per week, 4 out of 4 weeks) continues accrual with two patients treated, which are ongoing at three and five cycles of treatment.

To date, single agent activity, including complete response, partial response and stable disease, has been observed in certain patients with advanced endometrial, squamous non-small cell lung cancer and T-cell lymphoma. Encouraging signals of activity were also observed in certain patients with advanced cervical, hepatocellular, ovarian and pancreatic cancers. Fadraciclib tablets can be given orally with repeat dosing which has led to transient suppression of anti-apoptosis proteins with generally good tolerability and no Grade 3 or higher hematological toxicity in the first cycle. We believe that fadraciclib's inhibition of CDK2 and CDK9 may be superior to inhibiting either CDK2 or CDK9 alone.

Fadraciclib, using i.v. administration, has been evaluated in a first-in-human, single agent, ascending dose, Phase 1 trial to assess its safety, tolerability, pharmacokinetics and pharmacodynamics in patients with advanced solid tumors. In part 1 of the study 26 patients were treated with fadraciclib as a 4-hour infusion once every 3 weeks. Part 2 tested a more intensive dosing regimen with 24 patients treated with fadraciclib as a 1-hour infusion or orally on days 1, 2, 8 and 9 every 3 weeks. One patient with MCL1 amplified endometrial cancer has experienced a confirmed partial response after 4 cycles and remains on fadraciclib monotherapy for more than two years with 100% reduction in target tumor lesions and a negative PET scan. Another patient with cyclin E amplified ovarian cancer has achieved cancer shrinkage of target tumor lesions of 29% after 4 cycles. In part 3 of the study high bioequivalence of an oral formulation of fadraciclib was reported at the 32nd EORTC-NCI-AACR (ENA) Symposium in October 2020. Dose limiting toxicities were reversible neutropenia, thrombocytopenia, febrile neutropenia, diarrhea, hypomagnesemia, white blood cell lysis syndrome and its associated electrolyte abnormalities and liver enzyme elevations.

Leukemias

Phase 1/2 study in hematological malignancies (CYC065-102, dosed orally, NCT05168904)

This is an open-label, multicenter, Phase 1/2 registration-directed trial using a streamlined design. Phase 1 explores both schedule and escalating doses of oral fadraciclib as a single-agent in a 28-day cycle with a primary objective of identifying MTD and/or the RP2D. Once RP2D has been established, the trial will immediately enter proof-of-concept, cohort stage, using a Simon 2-stage design. Oral fadraciclib, both as a single agent and in combinations, will be administered to patients in up to seven cohorts relevant to the drug's mechanism of action and informed by the clinical activity of fadraciclib in previous studies. 14 patients have been enrolled in this study through five dose levels. The study is currently not recruiting awaiting the determination of the RP2D from 065-101.

Chronic lymphocytic leukemia (CYC065-02, i.v., NCT03739554)

CLL cell survival depends on the expression of anti-apoptotic proteins, including MCL1 and BCL2. In this context, targeting MCL1 or BCL2 releases pro-death signals and commits CLL cells to apoptosis. In preclinical studies, rapid cell death was induced in CLL and multiple myeloma patient-derived cell lines after short exposure to fadraciclib, even in the presence of stromal cells which confer protection from standard treatments. MCL1 down-regulation was observed, consistent with the pro-apoptotic mechanism of fadraciclib. Fadraciclib synergizes with venetoclax in preclinical models at clinically achievable concentrations, supporting the clinical investigation of combination regimens of fadraciclib and venetoclax.

In a Phase 1 study, i.v. fadraciclib was evaluated in combination with venetoclax in patients with relapsed or refractory CLL. The study design and preliminary data were presented at a poster during the 2019 Annual Meeting of the American Society of Hematology. Fadraciclib was administered intravenously via four-hour infusion on days 1 and 15 in combination with daily oral venetoclax. Initial dose escalation is 33% and upon occurrence of the first dose limiting toxicity, or DLT, 25%. The primary objective is determination of a recommended Phase 2 dose, or RP2D, defined as the highest dose level at which less than one-third of at least six patients experience DLT during the first treatment cycle. Treatment continued until progression of disease, unacceptable toxicity or changes in patient condition that renders patients ineligible for further treatment. Laboratory tests and CT scans were performed regularly to assess response according to standard criteria.

Of the five R/R CLL patients enrolled in CYC065-02 all had failed ibrutinib and one had also failed CAR-T cell treatment. Patients remained minimal residual disease, or MRD, positive after treatment ramp with single agent venetoclax for up to 5 weeks. Continuing shrinkage of enlarged lymph nodes was observed by CT scan on the combination of venetoclax and fadraciclib dosed once every two weeks. The patient who failed CAR-T cell therapy and two additional patients achieved MRD negative status on the combination.

Acute myeloid leukemia, or AML (CYC065-03, i.v., NCT04017546)

Drug resistance in AML has been attributed among others to high levels of MCL1. AML cell lines are highly sensitive to fadraciclib and 5 to 8 hours of treatment is sufficient to achieve induction of cell death. Fadraciclib has single agent efficacy in AML xenografts and the potential to be combined with approved AML therapies. In leukemia cells harboring the rearranged MLL-r, fadraciclib reduced both MCL1 expression and CDK9 dependent transcription of MLL-regulated leukemogenic genes.

We completed enrollment in a Phase 1 study evaluating i.v. fadraciclib in combination with venetoclax in patients with relapsed or refractory AML or MDS. The study design and preliminary data were presented at a poster during the 2019 Annual Meeting of the American Society of Hematology. Fadraciclib is administered intravenously via four-hour infusion on days 1 and 15 in combination with daily venetoclax on days 1 to 15. Initial dose escalation is 33% and 25% upon occurrence of DLT. The primary objective is determination of RP2D defined as the highest dose level at which less than one-third of at least six patients experience a DLT during the first treatment cycle. Treatment continued until progression of disease, unacceptable toxicity or changes in patient condition that renders patients ineligible for further treatment.

Four of twelve patients in CYC065-03 achieved decreases in leukemia blast cells in their peripheral blood as reported by investigators.

Published preclinical data

Preclinical data suggest that fadraciclib may benefit adults and children with hematological malignancies, including AML, acute lymphocytic leukemias, or ALL, and in particular leukemias with MLL-r, CLL, B-cell lymphomas, multiple myelomas, and patients with certain solid tumors, including breast and uterine cancers, and neuroblastomas.

- *Prolonged survival and reduced tumor burden in MYCN-addicted neuroblastoma*

The MYCN oncogene is over-expressed in several types of cancer, most notably neuroblastoma, and also rhabdomyosarcoma, medulloblastoma, astrocytoma, Wilms' tumor and small cell lung cancer. Amplification of MYCN is the most common genomic alteration in aggressive neuroblastoma and is associated with poor clinical outcome. Preclinical data presented at the 2016 Childhood Cancer Meeting demonstrated that fadraciclib prolonged survival in MYCN-addicted neuroblastoma models. Neuroblastoma cells with MYCN amplification and overexpression were found to be particularly sensitive. Treatment with fadraciclib was associated with inhibition of MYCN transcription, downregulation of MYCN protein, blocking neuroblastoma cell proliferation and induction of apoptosis. There are no approved drugs that directly target MYCN, prompting investigation of indirect approaches such as suppression of MYCN gene expression via CDK9 inhibition, or exploitation of a synthetic lethal relationship between MYCN amplification/overexpression and inhibition of CDK2.

- *May reverse drug resistance associated with addiction of cancer cells to cyclin E, the partner protein of CDK2*

Fadraciclib as a single agent can induce tumor growth delay in HER2-positive breast cancer cells addicted to cyclin E and resistant to trastuzumab, while administration of fadraciclib in combination with trastuzumab resulted in regression or sustained tumor growth inhibition.

· *May have activity in KRAS-mutated cancers*

Researchers led by Frank McCormick, PhD of University of California San Francisco and NCI's Frederick National Lab for Cancer Research reported that overactive KRAS mutants are impeded by CDK9 inhibition (Pui Lai L, et al, *SLAS Discovery* I-II 2021). These data expand on previous publications which report that dual CDK2/9 inhibition is an optimal strategy to treat colorectal cancer (Somarelli JA, et al, *Mol Cancer Ther*, 2020), that KRAS mutant pancreatic cancer is sensitive to CDK9 inhibition (Blake DR, et al, *Science Signalling*, 2019), and that fadraciclib showed efficacy against KRAS mutant lung cancer in preclinical PDX models (Kawakami M, et al *J Natl Cancer Inst*, 2017). Collectively these publications suggest the potential for the therapeutic use of fadraciclib in KRAS-mutated cancers, including colorectal, lung and pancreatic.

· *Induces leukemia cell death and can combine beneficially with other anti-cancer drugs*

Fadraciclib targets key CDK9-dependent oncogenic and leukemogenic survival pathways. Data presented at the 2018 Annual Meeting of the American Association of Cancer Research demonstrated strong synergy between, fadraciclib, and venetoclax in primary CLL, cells obtained from patients, including those with 17p deletions. In addition, the combination was active in two CLL samples which were resistant to either agent alone.

Data presented at the 2016 Annual Meeting of the American Association of Cancer Research demonstrated that fadraciclib can induce cell death and combine beneficially with anti-cancer drugs from the BCL2 and BET (Bromodomain and Extra-Terminal domain) inhibitor classes, in *in vitro* models of B-cell lymphoma, including double-hit lymphomas. Combinations of fadraciclib with the BCL2 inhibitor venetoclax, or BET inhibitors were both synergistic. Short exposure to fadraciclib was sufficient to downregulate MYC and MCL1 and induce cell death. Fadraciclib treatment had no impact on BCL2 levels.

In April 2022, a publication in the journal, *Leukemia*, from The University of Texas MD Anderson Cancer Center reported preclinical data against chronic lymphocytic leukemia (CLL) cell lines showing that fadraciclib, as a single agent and in combination with the BCL2 antagonist, venetoclax, depletes anti-apoptotic proteins and synergizes with venetoclax.

These findings support the hypothesis that dual targeting of the MCL1- and BCL2-dependent mechanisms could induce synergistic cell death by apoptosis and highlight an opportunity to rationally disrupt the pathways promoting survival of leukemia cells.

Mitosis Regulation Program

Polo-Like-Kinase inhibitor — Plogosertib

In our Polo-like Kinase, or PLK, inhibitor program, we have discovered potent and selective small molecule inhibitors of PLK1. Polo Kinase was discovered by Professor David Glover, our former Chief Scientist.

PLK1 is a serine/threonine kinase with a central role in cell division, or the mitotic phase of the cell cycle, and is an important regulator of the DNA damage checkpoint. PLK1 over-expressing tumors include colorectal, esophageal, gastric, leukemia, lung, lymphoma, ovarian and squamous cell cancers, as well as MYC amplified cancers including breast. Recent data with another PLK1 inhibitor in clinical development, suggest that PLK1 inhibition may be effective in KRAS-mutated metastatic colorectal cancer.

Plogosertib is a novel, small molecule, selective, PLK1 inhibitor which has demonstrated an epigenetic mechanism, potent and selective target inhibition (PLK1 IC50 approximately 3 nM) and impressive efficacy in human tumor xenografts at non-toxic doses. Plogosertib has improved pharmaceutical properties over earlier, clinical stage, PLK inhibitors. Our translational biology program supports the development of plogosertib in solid tumor and hematological malignancy indications.

Clinical development

Phase 1/2 Study in advanced solid tumors and lymphomas (CYC140-101, orally dosed)

Similar to fadraciclib, this ongoing open-label Phase 1/2 registration-directed trial uses a streamlined design and seeks to first determine in a dose escalation stage the RP2D for single-agent plogosertib. Once RP2D has been established, the trial will immediately enter into proof-of-concept, cohort stage, using a Simon 2-stage design. In this stage plogosertib will be administered to patients in up to seven mechanistically relevant cohorts including patients with bladder, breast, colorectal (including KRAS mutant), hepatocellular and biliary tract, and lung cancers (both small cell and non-small cell), as well as lymphomas. An additional basket cohort will enroll patients with biomarkers relevant to the drug's mechanism, including MYC amplified tumors. The protocol allows for expansion of individual cohorts based on response which may allow acceleration of the clinical development and registration plan for plogosertib. Fifteen patients have been treated at the first five dose escalation levels with no dose limiting toxicities observed.

Advanced leukemias and MDS (140-01, i.v., NCT03884829)

Seven patients with advanced leukemias have been recruited in this first-in-human, single agent, dose escalation study of plogosertib given intravenously, and enrollment is completed. No dose-limiting toxicities have been observed.

Published preclinical data

Preclinical data presented at the 2016 28th EORTC-NCI-AACR Molecular Targets and Cancer Therapeutics Symposium and at the 2017 Annual Meeting of the American Association of Cancer Research demonstrated the therapeutic potential of plogosertib as a targeted anti-cancer agent. The data demonstrated that plogosertib is a selective PLK1 inhibitor which is highly active against both solid and liquid cancer models, preferentially induces growth inhibition and cell death in malignant versus non-malignant cells.

Treatment of proliferating cells with plogosertib resulted in reduced phosphorylation of the PLK1 substrate phospho-nucleophosmin, accumulation of cells in mitosis and an increase in the proportion of mitotic cells with monopolar spindles, which are all features consistent with PLK1 inhibition. In a cell line panel derived from esophageal cancer and various non-malignant solid tissues, plogosertib was preferentially cytotoxic to malignant cells. Malignant cells which are sensitive to plogosertib undergo complete growth inhibition and induction of cell death in response to treatment. In contrast, non-malignant cells are only temporarily arrested and normal cell cycle transit is restored.

Business Strategy

We plan to continue to build a diversified biopharmaceutical business focused on hematology and oncology based on a pipeline of novel drug candidates and utilizing our area of historical expertise in cancer cell cycle and mitosis biological mechanisms. Our clinical development strategy is focused on two ongoing programs in transcriptional regulation and epigenetics/mitosis control biology. We have retained worldwide rights to commercialize fadraciclib and plogosertib.

Focus on the cell cycle and cancer

Our core area of expertise is in cell cycle biology and our scientists include recognized leaders in this field. In addition, our senior management team has extensive experience in research, preclinical and clinical development and sales and marketing. The novel, mechanism-targeted cell cycle drugs we are developing are designed to be highly selective in comparison to conventional chemotherapies, potentially inducing death in cancer cells while sparing most normal cells which may give rise to fewer side-effects.

Thus, we believe that we are well placed to exploit the significant opportunities that this area offers for new drug discovery and development.

Develop anticancer drug candidates in all phases of the cell cycle and multiple compounds for particular cell cycle targets

Targeting a broad development program focused on multiple phases of the cell cycle allows us to minimize risk while maximizing the potential for success, and also to develop products that are complementary to one another.

Enter into partnering arrangements selectively, while developing our own sales and marketing capability

We currently retain virtually all marketing rights to the compounds associated with our clinical-stage drug programs. To optimize our commercial return, we intend to enter into selected partnering arrangements and to retain co-promotion rights as appropriate. Generally we plan to develop compounds through the Phase 2 proof-of-efficacy stage before seeking a partner. We may enter into partnering arrangements earlier than Phase 2 proof-of-concept trials where appropriate, or in connection with drug programs outside our core competency in oncology.

Licenses

Some of our programs are based on technology licensed from others. Our breach of an existing license or failure to obtain a license to technology required to develop, test and commercialize our products may seriously harm our business. In March 2023 we terminated our license agreement with Daiichi Sankyo Co., Ltd. for patents and patent applications covering sapacitabine for commercial reasons.

Patents and Proprietary Technology

Patents and Proprietary Rights

We own 14 patents granted in the United States, 5 granted by the European Patent Office, or EPO, and 30 granted in other countries worldwide. In addition, we have a license to 11 patents granted in the US, by the EPO or worldwide.

We have 3 patent applications pending in the United States, 4 before the EPO and 25 pending patent applications in other countries. No assurances can be given that any patents will be issued with respect to the pending applications, nor that the claims will provide equivalent coverage in all jurisdictions.

Intellectual Property Strategy

We consider intellectual property rights to be vital and use a variety of methods to secure, protect and evaluate these rights. These methods include ownership and enforcement of patent rights, patent applications, license agreements with third parties, invention assignment, confidentiality and non-compete agreements with key employees and consultants, material transfer agreements, and trademark protection.

We give priority to obtaining substance of matter claims in the United States, the EPO, Japan and other important markets if such protection is available. We prefer composition of matter claims because they provide us with rights to the compounds themselves, and not merely a particular use. In addition to composition of matter claims, we seek coverage for solid state forms, polymorphic and crystalline forms, medical uses, combination therapies, specific regimens, pharmaceutical forms of our compounds and synthetic routes where available and appropriate. Claims covering combination therapies, specific regimens and pharmaceutical forms can be valuable because the therapeutic effect of pharmaceuticals used in the anticancer field is often enhanced when individual therapeutics are used in particular combinations or dosed in a certain way. The availability of protection in these areas can, however, vary from jurisdiction to jurisdiction and combination claims are particularly difficult to obtain for many inventions.

Since publications in scientific or patent literature often lag behind actual discoveries, we are not certain of being first to make the inventions covered by each of our pending patent applications or the first to file those patent applications. Generally, patent applications are maintained in secrecy for a period of 18 months or more, which increases the uncertainty we face. Moreover, the patent positions of biotechnology and pharmaceutical companies are highly uncertain and involve complex legal and factual questions. As a result, we cannot predict the breadth of claims allowed in biotechnology and pharmaceutical patents, or their enforceability. Third parties or competitors may challenge or circumvent our patents or patent applications, if issued. Because of the extensive time required for development, testing and regulatory review of a potential product, it is possible that before we commercialize any of our products, any related patent may expire, or remain in existence for only a short period following commercialization, thus reducing any advantage of the patent and the commercial opportunity of the product.

If patents are issued to others containing valid claims that cover our compounds or their manufacture or use or screening assays related thereto, we may be required to obtain licenses to these patents or to develop or obtain alternative technology. We are aware of several published patent applications, and understand that others may exist, that could support claims that, if granted and held valid, would cover various aspects of our developmental programs, including in some cases particular uses of our drug candidates fadraciclib and plogosertib, or other therapeutic candidates, or substances, processes and techniques that we use in the course of our research and development and manufacturing operations.

In addition, we understand that other applications and patents exist relating to potential uses of fadraciclib and plogosertib which are not part of our current clinical programs for those compounds. Although we intend to continue to monitor the pending applications, it is not possible to predict whether these claims will ultimately be allowed or if they were allowed what their breadth would be. In addition, we may need to commence litigation to enforce any patents issued to us or to determine the scope and validity of third-party proprietary rights. For example, in one case we opposed a European patent relating to human aurora kinase and the patent was finally revoked (no appeal was filed). Litigation would create substantial costs. We are aware that other patents exist that claim substances, processes, techniques and methods of use, which, if held valid, could potentially restrict the scope of our research, development or manufacturing operations. If competitors prepare and file patent applications in the United States that claim technology that we also claim, we may have to participate in interference proceedings in the United States Patent and Trademark Office to determine which invention has priority. These proceedings could result in substantial costs, even if the eventual outcome is favorable to us. An adverse outcome in litigation could subject us to significant liabilities to third parties and require us to seek licenses of the disputed rights from third parties or to cease using the technology, even a therapeutic product, if such licenses are unavailable or too expensive.

Issued patents for fadraciclib cover the United States, EPO and eleven other countries. Issued patents for plogosertib cover the United States, EPO and six other countries.

Manufacturing

We have no in-house manufacturing capabilities and have no current plans to establish manufacturing facilities for significant clinical or commercial production. We have no direct experience in manufacturing commercial quantities of any of our products, and we currently lack the resources or capability to manufacture any of our products on a clinical or commercial scale. As a result, we are dependent on corporate partners, licensees or other third parties for the manufacturing of clinical and commercial scale quantities of all of our products. We believe that this strategy will enable us to direct operational and financial resources to the development of our product candidates rather than diverting resources to establishing a manufacturing infrastructure.

Government Regulation

The FDA and comparable regulatory agencies in state and local jurisdictions, as well as in foreign countries, impose substantial regulatory requirements upon the clinical development, manufacture, marketing and distribution of drugs. These agencies and other federal, state and local authorities regulate research and development activities and the testing, manufacture, quality control, import, export, safety, efficacy, labeling, packaging, storage, distribution, record keeping, approval, advertising, promotion, marketing, post-approval monitoring, and post-approval reporting of drug products, such as those we are developing. Along with our third-party contractors, we will be required to navigate the various preclinical, clinical and commercial approval requirements of the governing regulatory agencies of the countries in which we wish to conduct studies or seek approval or licensure of its current or future product candidates. The process of obtaining regulatory approvals and the subsequent compliance with appropriate federal, state, local, and foreign statutes and regulations require the expenditure of substantial time and financial resources.

For example, in the United States, the FDA regulates drugs under the Federal Food, Drug and Cosmetic Act and its implementing regulations. The process required by the FDA before our drug candidates may be marketed in the United States generally involves the following:

- completion of extensive nonclinical laboratory tests, which may include animal studies and formulation studies, all performed in accordance with the FDA's good laboratory practice, or GLP, regulations;
- submission to the FDA of an investigational new drug application, or IND, which must become effective before clinical trials may begin and must be updated annually or when significant changes are made;
- approval by an IRB or ethics committee at each clinical site before the trial is initiated at such sites;
- performance of adequate and well-controlled clinical trials in accordance with good clinical practice, or GCP, and other clinical-trial related regulations to establish the safety and efficacy of the drug candidate for each proposed indication;
- preparation and submission of a new drug application, or NDA, to the FDA;
- a determination by the FDA within 60 days of its receipt of an NDA to file the application for review;
- satisfactory completion of an FDA Advisory Committee review, if applicable;
- satisfactory completion of an FDA pre-approval inspection of the manufacturing facilities at which the product is produced to assess compliance with current good manufacturing practice requirements, or cGMP, regulations;
- potential audit of selected clinical trial sites to assess compliance with GCP and the integrity of the clinical data submitted in support of the NDA; and
- FDA review and approval of the NDA to permit commercial marketing of the drug product for particular approved indications for use in the United States.

This testing and approval process requires substantial time, effort and financial resources, and we cannot be certain that any approvals for our drug candidates will be granted on a timely basis, if at all.

Preclinical development

Before testing any drug product candidate, including our product candidates, in humans, the product candidate must undergo rigorous preclinical testing. Preclinical and other nonclinical tests generally include laboratory evaluation of product chemistry, formulation and stability, as well as studies to evaluate toxicity in animals. The Consolidated Appropriations Act for 2023, signed into law on December 29, 2022, (P.L. 117-328) amended the FDCA and the Public Health Service Act to specify that nonclinical testing for drugs may, but is not required to, include in vivo animal testing. According to the amended language, a sponsor may fulfill nonclinical testing requirements by completing various in vitro assays (e.g., cell-based assays, organ chips, or microphysiological systems), in silico studies (i.e., computer modeling), other human or nonhuman biology-based tests (e.g., bioprinting), or in vivo animal tests. The conduct of preclinical studies is subject to federal regulations and requirements, including GLP regulations for safety/toxicology studies. Some long-term preclinical testing, such as animal tests of reproductive adverse events and carcinogenicity, may continue after an IND for an investigational drug candidate is submitted to the FDA and human clinical trials have been initiated.

The results of preclinical tests, together with manufacturing information and analytical data, are submitted as part of an IND to the FDA. An IND must become effective before human clinical trials may begin. The IND automatically becomes effective 30 days after receipt by the FDA, unless the FDA, within the 30-day time period, issues a notice expressly authorizing the proposed trial to proceed or raises concerns or questions about the adequacy or safety of the preclinical testing or the proposed conduct of the clinical trial, including concerns that human research subjects will be exposed to unreasonable health risks. If FDA raises concerns or places the trial on clinical hold, the IND sponsor and the FDA must resolve any outstanding concerns before the clinical trial can begin. Our submission of an IND, or those of our collaborators, may therefore not result in FDA authorization to commence a clinical trial. A separate submission to an existing IND must also be made for each successive clinical trial conducted during product development. Further, an independent institutional review board, or IRB, for each medical center proposing to conduct the clinical trial (or a central IRB) must review and approve the plan for any clinical trial before such trial commences at that site and the designated IRB must monitor the clinical trial until completed. The FDA or the clinical trial sponsor may suspend a clinical trial at any time on various grounds, including a finding that the subjects or patients are being exposed to an unacceptable health risk. Clinical testing also must satisfy extensive good clinical practice, or GCP, requirements, including those relating to informed consent.

Clinical Trials

For purposes of an NDA submission, clinical trials are typically conducted in the following three sequential phases, which may overlap:

- *Phase 1:* The clinical trials are initially conducted in a limited population to test the drug candidate for safety, dose tolerance, absorption, metabolism, distribution and excretion in healthy humans. In the case of some products for severe or life-threatening diseases, such as cancer, especially when the product may be too inherently toxic to ethically administer to healthy volunteers, the initial human testing is often conducted in patients. Phase 1 clinical trials can be designed to evaluate the impact of the drug candidate in combination with currently approved drugs.
- *Phase 2:* These clinical trials are generally conducted in a limited patient population to identify possible adverse effects and safety risks, to evaluate preliminary efficacy of the drug candidate for specific targeted indications and to determine dose tolerance and optimal dosage. Multiple Phase 2 clinical trials may be conducted by the sponsor to obtain information prior to beginning larger and more expensive Phase 3 clinical trial.
- *Phase 3:* These clinical trials are commonly referred to as pivotal clinical trials. If the Phase 2 clinical trials demonstrate that a dose range of the drug candidate is effective and has an acceptable safety profile, Phase 3 clinical trials are then undertaken in large patient populations to further evaluate dosage, to provide substantial evidence of clinical efficacy and to further test for safety in an expanded and diverse patient population at multiple, geographically dispersed clinical trial sites. These trials are intended to establish the overall risk-benefit ratio of the product candidate and provide, if appropriate, an adequate basis for product labeling. Phase 3 trials typically include comparisons with placebo and/or other comparator treatments. The duration of treatment is often extended to mimic the actual use of a product during marketing.

In some cases, the FDA may condition approval of an NDA for a drug candidate on the sponsor's agreement to conduct a Phase 4, which includes additional clinical trials to further assess the drug's safety and effectiveness after NDA approval.

In the Consolidated Appropriations Act for 2023, Congress amended the FDCA to require sponsors of a Phase 3 clinical trial, or other "pivotal study" of a new drug to support marketing authorization, to submit a diversity action plan for such clinical trial. The action plan must include the sponsor's diversity goals for enrollment, as well as a rationale for the goals and a description of how the sponsor will meet them. A sponsor must submit a diversity action plan to FDA by the time the sponsor submits the trial protocol to the agency for review. The FDA may grant a waiver for some or all of the requirements for a diversity action plan. It is unknown at this time how the diversity action plan may affect Phase 3 trial planning and timing or what specific information FDA will expect in such plans, but if FDA objects to a sponsor's diversity action plan and requires the sponsor to amend the plan or take other actions, it may delay trial initiation.

Progress reports detailing the results of the clinical trials must be submitted at least annually to the FDA and more frequently if unexpected serious adverse events, or SAEs, occur. The FDA or the sponsor may suspend or terminate a clinical trial at any time on various grounds, including a finding that the research subjects or patients are being exposed to an unacceptable health risk. Similarly, an IRB can suspend or terminate approval of a clinical trial at its institution if the clinical trial is not being conducted in accordance with the clinical protocol, GCP, or other IRB requirements or if the drug has been associated with unexpected serious harm to patients.

Assuming successful completion of all required testing in accordance with all applicable regulatory requirements, the results of product development, preclinical studies and clinical trials are submitted to the FDA as part of an NDA requesting approval to market the product for one or more indications. The NDA must contain proof of the product candidate's safety and substantial evidence of effectiveness for its proposed indication or indications in the form of relevant data available from pertinent preclinical and clinical studies, including negative or ambiguous results as well as positive findings, together with detailed information relating to the product's chemistry, manufacturing, controls, and proposed labeling, among other things. In particular, a marketing application must demonstrate that the manufacturing methods and quality controls used to produce the drug product are adequate to preserve the drug's identity, strength, quality, and purity. Data can come from company-sponsored clinical studies intended to test the safety and effectiveness of a use of the product, or from a number of alternative sources, including studies initiated by investigators. FDA approval of an NDA must be obtained before the corresponding drug may be marketed in the United States.

The FDA reviews all NDAs submitted to determine if they are substantially complete before it accepts them for filing and may request additional information rather than accepting a submission for filing. The FDA must make a decision on accepting an NDA for filing within 60 days of receipt and must inform the sponsor by the 74th day after the FDA's receipt of the submission whether the application is sufficiently complete to permit substantive review. The FDA may refuse to file any submission that it deems incomplete or not properly reviewable at the time of submission and may request additional information. In this event, the marketing application must be resubmitted with the additional information requested by the agency. The resubmitted application is also subject to review before the FDA accepts it for filing.

During the review process, the FDA reviews the NDA to determine, among other things, whether the product is safe and effective and whether the facility in which it is manufactured, processed, packed, or held meets standards designed to assure the product's continued strength, quality, and purity. The FDA may refer any NDA, including applications for novel drug candidates which present difficult questions of safety or efficacy to an advisory committee to provide clinical insight on application review questions. Typically, an advisory committee is a panel of independent experts, including clinicians and other scientific experts that reviews, evaluates and provides a recommendation as to whether the application should be approved and under what conditions. The FDA is not bound by the recommendation of an advisory committee, but it considers such recommendations carefully when making final decisions on approval.

Under the Pediatric Research Equity Act, or PREA, amendments to the FDCA, an NDA or supplement to an NDA must contain data that are adequate to assess the safety and efficacy of the product candidate for the claimed indications in all relevant pediatric populations and to support dosing and administration for each pediatric population for which the product is safe and effective. The FDA may grant deferrals for submission of pediatric data or full or partial waivers. The PREA requires a sponsor that is planning to submit a marketing application for a product that includes a new active ingredient, new indication, new dosage form, new dosing regimen or new route of administration to submit an initial Pediatric Study Plan, or PSP, within sixty days of an end-of-Phase 2 meeting or, if there is no such meeting, as early as practicable before the initiation of the Phase 3 or Phase 2/3 clinical trial. The initial PSP must include an outline of the pediatric study or studies that the sponsor plans to conduct, including trial 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 an 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 pre-clinical studies, early-phase clinical trials or other clinical development programs.

If regulatory approval of a product is granted, such approval is limited to the conditions of use (e.g., patient population, indication) described in the application and may entail further limitations on the indicated uses for which such product may be marketed. For example, the FDA may approve the NDA with a Risk Evaluation and Mitigation Strategy, or REMS, 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. 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. The FDA will not approve an NDA without a REMS, if one is required. The FDA also may condition approval on, among other things, changes to proposed labeling (e.g., adding contraindications, warnings or precautions) or the development of adequate controls and specifications. Once approved, the FDA may withdraw the product approval if compliance with pre- and post-marketing regulatory standards is not maintained or if problems occur after the product reaches the marketplace. The FDA may require one or more Phase 4 post-market studies and surveillance to further assess and monitor the product's safety and effectiveness after commercialization and may limit further marketing of the product based on the results of these post-marketing studies. After approval, some types of changes to the approved product, such as adding new indications, manufacturing changes and additional labeling claims, are subject to further testing requirements and FDA review and approval. In addition, new government requirements, including those resulting from new legislation, may be established, or the FDA's policies may change, which could delay or prevent regulatory approval of our products under development.

Fast Track, Priority Review, and Breakthrough Therapy Designations

A sponsor may seek approval of its product candidate under programs designed to accelerate FDA's review and approval of new drugs and biological products that meet certain criteria. Specifically, new drugs and biological products are eligible for fast track designation if they are intended to treat a serious or life-threatening condition and demonstrate the potential to address unmet medical needs for the condition. Fast track designation provides increased opportunities for sponsor interactions with the FDA during preclinical and clinical development, in addition to the potential for rolling review once a marketing application is filed, meaning that the FDA may consider for review sections of the NDA or BLA on a rolling basis before the complete application is submitted, if the sponsor provides a schedule for the submission of the sections of the application, the FDA agrees to accept the sections and determines that the schedule is acceptable, and the sponsor pays any required user fees upon submission of the first section of the application. A fast track designated product candidate may also qualify for accelerated approval (described below) or priority review, under which the FDA sets the target date for FDA action on the NDA or BLA at six months after the FDA accepts the application for filing.

Priority review is granted when there is evidence that the proposed product would be a significant improvement in the safety or effectiveness of the treatment, diagnosis, or prevention of a serious condition. Significant improvement may be illustrated by evidence of increased effectiveness in the treatment of a condition, elimination or substantial reduction of a treatment-limiting drug reaction, documented enhancement of patient compliance that may lead to improvement in serious outcomes, or evidence of safety and effectiveness in a new subpopulation. If criteria are not met for priority review, the application is subject to the standard FDA review period of 10 months after FDA accepts the application for filing.

In addition, a sponsor may seek FDA designation of its product candidate as a breakthrough therapy if the product candidate is intended, alone or in combination with one or more other drugs or biologics, to treat a serious or life-threatening disease or condition and preliminary clinical evidence indicates that the therapy may demonstrate substantial improvement over existing therapies on one or more clinically significant endpoints, such as substantial treatment effects observed early in clinical development. Breakthrough therapy designation provides all the features of fast track designation in addition to intensive guidance on an efficient development program beginning as early as Phase 1, and FDA organizational commitment to expedited development, including involvement of senior managers and experienced review and regulatory staff in a proactive, collaborative, cross-disciplinary review, where appropriate. A drug designated as breakthrough therapy is also eligible for accelerated approval if the relevant criteria are met.

Even if a product qualifies for one or more of these programs, the FDA may later decide that the product no longer meets the conditions for qualification or decide that the time period for FDA review or approval will not be shortened. fast track, priority review and breakthrough therapy designations do not change the scientific or medical standards for approval or the quality of evidence necessary to support approval but may expedite the development or approval process.

Accelerated Approval

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. The FDA may also grant accelerated approval for such a drug or biologic when it 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. As a condition of approval, the FDA may require that a sponsor of a drug or biologic receiving accelerated approval perform post-marketing clinical trials to verify and describe the predicted effect on IMM or other clinical endpoint, and the product may be subject to expedited withdrawal procedures. Drugs and biologics granted accelerated approval must meet the same statutory standards for safety and effectiveness as those granted traditional approval.

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 product candidate's clinical benefit. As a result, 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 product. As part of the Consolidated Appropriations Act for 2023, Congress provided FDA additional statutory authority to mitigate potential risks to patients from continued marketing of ineffective drugs or biologics previously granted accelerated approval. Under the act's amendments to the FDCA, FDA may require the sponsor of a product granted accelerated approval to have a confirmatory trial underway prior to approval. The sponsor must also submit progress reports on a confirmatory trial every six months until the trial is complete, and such reports are published on FDA's website. The amendments also give FDA the option of using expedited procedures to withdraw product approval if the sponsor's confirmatory trial fails to verify the claimed clinical benefits of the product.

All promotional materials for product candidates being considered and approved under the accelerated approval program are subject to prior review by the FDA.

Special Protocol Assessment

If a Phase 2 clinical trial is the subject of discussion at an end-of-Phase 2 meeting with the FDA, a sponsor may be able to request a Special Protocol Assessment, or SPA, the purpose of which is to reach agreement with the FDA on the design of the Phase 3 clinical trial protocol design and analysis that will form the primary basis of an efficacy claim. If such an agreement is reached, it will be documented and made part of the administrative record, and it will be binding on the FDA and may not be changed unless the sponsor fails to follow the agreed-upon protocol, data supporting the request are found to be false or incomplete, or the FDA determines that a substantial scientific issue essential to determining the safety or effectiveness of the drug was identified after the testing began. Even if an SPA is agreed to, approval of the NDA is not guaranteed because a final determination that an agreed-upon protocol satisfies a specific objective, such as the demonstration of efficacy, or supports an approval decision, will be based on a complete review of all the data in the NDA.

Orphan Drugs

Under the Orphan Drug Act, the FDA may grant orphan drug designation to a drug intended to treat a rare disease or condition, defined as a disease or condition with a patient population of fewer than 200,000 individuals in the United States, or a patient population greater than 200,000 individuals in the United States and when there is no reasonable expectation that the cost of developing and making available the drug in the United States will be recovered from sales in the United States for that drug. Orphan drug designation must be requested before submitting a marketing application. After the FDA grants orphan drug designation, the generic identity of the therapeutic agent and its potential orphan use are disclosed publicly by the FDA.

If a drug product that has orphan drug designation subsequently receives the first FDA approval for a particular active ingredient for the disease for which it has such designation, the product is entitled to orphan product exclusivity, which means that the FDA may not approve any other applications, including a full NDA, to market the same drug for the same indication for seven years, except in limited circumstances, such as a showing of clinical superiority to the product with orphan product exclusivity or if FDA finds that the holder of the orphan product exclusivity has not shown that it can assure the availability of sufficient quantities of the orphan product to meet the needs of patients with the disease or condition for which the drug was designated. Orphan product exclusivity does not prevent the FDA from approving a different drug for the same disease or condition, or the same drug for a different disease or condition. Among the other benefits of orphan drug designation are tax credits for certain research and a waiver of the NDA application user fee.

Patent term restoration

Depending upon the timing, duration and specifics of FDA approval of the use of our product candidates, some of our United States patents may be eligible for limited patent term extension under the Hatch-Waxman Act. The Hatch-Waxman Act permits a patent restoration term of up to five years as compensation for patent term lost during product development and the FDA regulatory review process. However, patent term restoration cannot extend the remaining term of a patent beyond a total of 14 years from the product candidate's approval date. The patent term restoration period is generally one half of the time between the effective date of an IND and the submission date of an NDA, plus the time between the submission date of the NDA and the approval of that application, except that the review period is reduced by any time during which the applicant failed to exercise due diligence. Only one patent applicable to an approved product candidate is eligible for the extension and the application for extension must be made prior to expiration of the patent. The USPTO, in consultation with the FDA, reviews and approves the application for any patent term extension or restoration. In the future, we intend to apply for restorations of patent term for some of our currently owned or licensed patents to add patent life beyond their current expiration date, depending on the expected length of clinical trials and other factors involved in the submission of the relevant NDA.

Post-approval requirements

Following approval of a new product, the manufacturer and the approved product 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. The manufacturer and its products are also subject to similar post-approval requirements by regulatory authorities comparable to FDA in jurisdictions outside of the United States where the products are approved. Although physicians may prescribe legally available products for off-label uses, manufacturers may not market or promote such uses.

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. The manufacturing facilities for our product candidates must meet applicable cGMP requirements to the FDA's or comparable foreign regulatory authorities' satisfaction before any product is approved and our commercial products can be manufactured. We rely, and expect to continue to rely, on third parties for the production of clinical and commercial quantities of our products in accordance with cGMP regulations. These manufacturers must comply with cGMP regulations that require, among other things, quality control and quality assurance, the maintenance of records and documentation and the obligation to investigate and correct any deviations from cGMP. Manufacturers and other entities involved in the manufacture and distribution of approved drugs are required to register their establishments with the FDA and certain state agencies and are subject to periodic prescheduled or unannounced inspections by the FDA and certain state agencies for compliance with cGMP and other laws. Accordingly, manufacturers must continue to expend time, money and effort in the area of production and quality control to maintain cGMP compliance. Future inspections by the FDA and other regulatory agencies may identify compliance issues at the facilities of our CMOs that may disrupt production or distribution or require substantial resources to correct. In addition, the discovery of conditions that violate these rules, including failure to conform to cGMPs, could result in enforcement actions, and the discovery of problems with a product after approval may result in restrictions on a product, manufacturer or holder of an approved NDA, including voluntary recall and regulatory sanctions as described below.

Once an approval or clearance of a drug is granted, the FDA may withdraw the approval if compliance with regulatory requirements and standards is not maintained or if problems occur after the product reaches the market. Later discovery of previously unknown problems with a product, including adverse events of unanticipated severity or frequency, or with manufacturing processes, or failure to comply with regulatory requirements, 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 marketing applications or supplements to approved marketing authorizations, 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.

In addition, the distribution of prescription pharmaceutical products is subject to the Prescription Drug Marketing Act, or 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 DSCSA, was enacted with the aim of building an electronic system to identify and trace certain prescription drugs distributed in the United States. 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, whether FDA regulations, guidance or interpretations will be changed or what the impact of such changes, if any, may be.

Other U.S. health care laws and regulations

The majority of states also have statutes or regulations similar to the aforementioned federal laws, some of which are broader in scope and apply to items and services reimbursed under Medicaid and other state programs, or, in several states, apply regardless of the payor. Some state laws require pharmaceutical companies to comply with the pharmaceutical industry's voluntary compliance guidelines, or the relevant compliance guidance promulgated by the federal government, in addition to requiring drug manufacturers to report information related to payments to physicians and other health care providers or marketing expenditures to the extent that those laws impose requirements that are more stringent than the Physician Payments Sunshine Act. State and foreign laws also govern the privacy and security of health information in some circumstances, many of which differ from each other in significant ways and often are not preempted by HIPAA, thus complicating compliance efforts.

Because of the breadth of these laws and the narrowness of their exceptions and safe harbors, it is possible that business activities can be subject to challenge under one or more of such laws. The scope and enforcement of each of these laws is uncertain and subject to rapid change in the current environment of healthcare reform, especially in light of the lack of applicable precedent and regulations. Federal and state enforcement bodies have recently increased their scrutiny of interactions between healthcare companies and healthcare providers, which has led to a number of investigations, prosecutions, convictions and settlements in the healthcare industry.

Ensuring that business arrangements with third parties comply with applicable healthcare laws and regulations is costly and time consuming. If business operations are found to be in violation of any of the laws described above or any other applicable governmental regulations a pharmaceutical manufacturer may be subject to penalties, including civil, criminal and administrative penalties, damages, fines, disgorgement, individual imprisonment, exclusion from governmental funded healthcare programs, such as Medicare and Medicaid, contractual damages, reputational harm, diminished profits and future earnings, additional reporting obligations and oversight if subject to a corporate integrity agreement or other agreement to resolve allegations of non-compliance with these laws, and curtailment or restructuring of operations, any of which could adversely affect a pharmaceutical manufacturer's ability to operate its business and the results of its operations.

Regulation outside of the United States

In addition to regulations in the United States, we will be subject to a variety of foreign regulations governing clinical trials and commercial sales and distribution of our products outside of the United States. Whether or not we obtain FDA approval for a product candidate, we must obtain approval by the comparable regulatory authorities of foreign countries or economic areas, such as the 28-member European Union, before we may commence clinical trials or market products in those countries or areas. The approval process and requirements governing the conduct of clinical trials, product licensing, pricing and reimbursement vary greatly between countries and jurisdictions and can involve additional testing and additional administrative review periods. The time required to obtain approval in other countries and jurisdictions might differ from and be longer than that required to obtain FDA approval. Regulatory approval in one country or jurisdiction does not ensure regulatory approval in another, but a failure or delay in obtaining regulatory approval in one country or jurisdiction may negatively impact the regulatory process in others.

European Union drug development, review and approval

In the European Union, our product candidates also may be subject to extensive regulatory requirements. As in the United States, medicinal products can be marketed only if a marketing authorization from the competent regulatory agencies has been obtained. Similar to the United States, the various phases of pre-clinical and clinical research in the European Union are subject to significant regulatory controls.

The Clinical Trials Directive 2001/20/EC, the Directive 2005/28/EC on GCP, and the related national implementing provisions of the individual EU Member States govern the system for the approval of clinical trials in the European Union. Under this system, an applicant must obtain prior approval from the competent national authority of the EU Member States in which the clinical trial is to be conducted. Furthermore, the applicant may only start a clinical trial at a specific study site after the competent ethics committee has issued a favorable opinion. The clinical trial application must be accompanied by, among other documents, an IMPD (the Common Technical Document) with supporting information prescribed by Directive 2001/20/EC, Directive 2005/28/EC, and where relevant the implementing national provisions of the individual EU Member States and further detailed in applicable guidance documents. All suspected unexpected serious adverse reactions to the investigated drug that occur during the clinical trial have to be reported to the competent national authority and the Ethics Committee of the Member State where they occurred.

Under the EU's new Clinical Trials Regulation, which took effect in January 2022, there will be a centralized application procedure where one EU Member State's competent authority takes the lead in reviewing part I of the application, which contains scientific and medicinal product documentation, and the other national authorities only have limited involvement. Part II, which contains the national and patient-level documentation, will be assessed individually by each EU Member State. Strict deadlines have been established for the assessment of clinical trial applications. The role of the relevant ethics committees in the assessment procedure will continue to be governed by the national law of the concerned EU Member State. Any substantial changes to the trial protocol or other information submitted with the CTA must be notified to or approved by the relevant competent authorities and ethics committees. Medicines used in clinical trials must be manufactured in accordance with good manufacturing practices. Other national and EU-wide regulatory requirements may also apply. Currently, the extent to which clinical trials will be governed by the Clinical Trials Regulation will depend on when the clinical trial is initiated or on the duration of an ongoing trial. As of January 2023, all new clinical trials must comply with the Clinical Trials Regulation. In addition, any clinical trial that was already under way as of January 1, 2023 and continues for more than three years from the day on which the Clinical Trials Regulation becomes applicable (i.e., January 31, 2025), the Clinical Trials Regulation will at that time begin to apply to the clinical trial.

To obtain a marketing authorization of a drug in the European Union, we may submit marketing authorization applications, or MAA, either under the so-called centralized or national authorization procedures.

Centralized procedure

The centralized procedure provides for the grant of a single marketing authorization following a favorable opinion by the European Medicines Agency, or EMA, that is valid in all EU member states, as well as Iceland, Liechtenstein and Norway. The centralized procedure is compulsory for medicines produced by specified biotechnological processes, products designated as orphan medicinal products, advanced-therapy medicines (such as gene-therapy, somatic cell-therapy or tissue-engineered medicines) and products with a new active substance indicated for the treatment of specified diseases, such as HIV/AIDS, cancer, diabetes, neurodegenerative disorders or autoimmune diseases and other immune dysfunctions and viral diseases. The centralized procedure is optional for products that represent a significant therapeutic, scientific or technical innovation, or whose authorization would be in the interest of public health. Under the centralized procedure the maximum timeframe for the evaluation of an MAA by the 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 the CHMP. Accelerated assessment might be granted by the CHMP in exceptional cases, when a medicinal product is expected to be of a major public health interest, particularly from the point of view of therapeutic innovation. The timeframe for the evaluation of an MAA under the accelerated assessment procedure is of 150 days, excluding stop-clocks.

National authorization procedures

There are also two other possible routes to authorize medicinal products in several EU countries, which are available for investigational medicinal products that fall outside the scope of the centralized procedure:

- Decentralized procedure. Using the decentralized procedure, an applicant may apply for simultaneous authorization in more than one EU country of medicinal products that have not yet been authorized in any EU country and that do not fall within the mandatory scope of the centralized procedure.
- Mutual recognition procedure. In the mutual recognition procedure, a medicine is first authorized in one EU Member State, in accordance with the national procedures of that country. Following this, further marketing authorizations can be sought from other EU countries in a procedure whereby the countries concerned agree to recognize the validity of the original, national marketing authorization.

Under the above described procedures, before granting the marketing authorization, the EMA or the competent authorities of the Member States of the EEA make an assessment of the risk-benefit balance of the product on the basis of scientific criteria concerning its quality, safety and efficacy.

Conditional approval

In specific circumstances, E.U. legislation (Article 14(7) Regulation (EC) No 726/2004 and Regulation (EC) No 507/2006 on Conditional Marketing Authorizations for Medicinal Products for Human Use) enables applicants to obtain a conditional marketing authorization prior to obtaining the comprehensive clinical data required for an application for a full marketing authorization. Such conditional approvals may be granted for product candidates (including medicines designated as orphan medicinal products) if (1) the risk-benefit balance of the product candidate is positive, (2) it is likely that the applicant will be in a position to provide the required comprehensive clinical trial data, (3) the product fulfills unmet medical needs and (4) the benefit to public health of the immediate availability on the market of the medicinal product concerned outweighs the risk inherent in the fact that additional data are still required. A conditional marketing authorization may contain specific obligations to be fulfilled by the marketing authorization holder, including obligations with respect to the completion of ongoing or new studies, and with respect to the collection of pharmacovigilance data. Conditional marketing authorizations are valid for one year, and may be renewed annually, if the risk-benefit balance remains positive, and after an assessment of the need for additional or modified conditions or specific obligations. The timelines for the centralized procedure described above also apply with respect to the review by the CHMP of applications for a conditional marketing authorization.

European Union regulatory exclusivity

In the European Union, new products authorized for marketing (i.e., reference products) qualify for eight years of data exclusivity and an additional two years of market exclusivity upon marketing authorization. The data exclusivity period prevents generic or biosimilar applicants from relying on the pre-clinical and clinical trial data contained in the dossier of the reference product when applying for a generic or biosimilar marketing authorization in the European Union during a period of eight years from the date on which the reference product was first authorized in the European Union. The market exclusivity period prevents a successful generic or biosimilar applicant from commercializing its product in the EU until ten years have elapsed from the initial authorization of the reference product in the EU. The ten-year market exclusivity period can be extended to a maximum of eleven years if, during the first eight years of those ten years, the marketing authorization holder obtains an authorization for one or more new therapeutic indications which, during the scientific evaluation prior to their authorization, are held to bring a significant clinical benefit in comparison with existing therapies.

European Union orphan designation and exclusivity

The criteria for designating an orphan medicinal product in the European Union, are similar in principle to those in the United States. Under Article 3 of Regulation (EC) 141/2000, a medicinal product may be designated as orphan if (1) it is intended for the diagnosis, prevention or treatment of a life-threatening or chronically debilitating condition; (2) either (a) such condition affects no more than five in 10,000 persons in the European Union when the application is made, or (b) the product, without the benefits derived from orphan status, would not generate sufficient return in the European Union to justify investment; and (3) there exists no satisfactory method of diagnosis, prevention or treatment of such condition authorized for marketing in the European Union, or if such a method exists, the product will be of significant benefit to those affected by the condition, as defined in Regulation (EC) 847/2000. Orphan medicinal products are eligible for financial incentives such as reduction of fees or fee waivers and are, upon grant of a marketing authorization, entitled to ten years of market exclusivity for the approved therapeutic indication. The application for orphan designation must be submitted before the application for marketing authorization. The applicant will receive a fee reduction for the marketing authorization application if the orphan designation has been granted, but not if the designation is still pending at the time the marketing authorization is submitted. Orphan designation does not convey any advantage in, or shorten the duration of, the regulatory review and approval process.

The ten-year market exclusivity in the European Union may be reduced to six years if, at the end of the fifth year, it is established that the product no longer meets the criteria for orphan designation, for example, if the product is sufficiently profitable not to justify maintenance of market exclusivity. Additionally, marketing authorization may be granted to a similar product for the same indication at any time if:

- the second applicant can establish that its product, although similar, is safer, more effective or otherwise clinically superior;

- the applicant consents to a second orphan medicinal product application; or
- the applicant cannot supply enough orphan medicinal product.

PRIME designation

The EMA grants access to the Priority Medicines, or PRIME, program to investigational medicines for which it determines there to be preliminary data available showing the potential to address an unmet medical need and bring a major therapeutic advantage to patients. As part of the program, the EMA provides early and enhanced dialogue and support to optimize the development of eligible medicines and speed up their evaluation, aiming to bring promising treatments to patients sooner.

Periods of authorization and renewals

A marketing authorization is valid for five years in principle and the marketing authorization may be renewed after five years on the basis of a re-evaluation of the risk-benefit balance by the EMA or by the competent authority of the authorizing member state. To this end, the marketing authorization holder must provide the EMA or the competent authority with a consolidated version of the file in respect of quality, safety and efficacy, including all variations introduced since the marketing authorization was granted, at least six months before the marketing authorization ceases to be valid. Once renewed, the marketing authorization is valid for an unlimited period, unless the European Commission or the competent authority decides, on justified grounds relating to pharmacovigilance, to proceed with one additional five-year renewal. Any authorization which is not followed by the actual placing of the drug on the E.U. market (in case of centralized procedure) or on the market of the authorizing member state within three years after authorization ceases to be valid (the so-called sunset clause).

Health Care Reform

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 candidates. For example, Congress must reauthorize the FDA's user fee programs every five years and often makes changes to those programs in addition to policy or procedural changes that may be negotiated between the FDA and industry stakeholders as part of this periodic reauthorization process. Congress most recently reauthorized the user fee programs in September 2022 but without any substantive policy changes. 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.

As previously mentioned, the primary trend in the U.S. health care industry and elsewhere is cost containment. Government authorities and other third-party payors have attempted to control costs by limiting coverage and the amount of reimbursement for particular medical products and services, implementing reductions in Medicare and other health care funding and applying new payment methodologies. For example, the ACA, among other things, increased the minimum Medicaid rebates owed by most manufacturers under the Medicaid Drug Rebate Program; extended the Medicaid Drug Rebate Program to utilization of prescriptions of individuals enrolled in Medicaid managed care plans; imposed mandatory discounts for certain Medicare Part D beneficiaries as a condition for manufacturers' outpatient drugs coverage under Medicare Part D; and established a Center for Medicare Innovation at the U.S. Centers for Medicare and Medicaid Services, or CMS, to test innovative payment and service delivery models to lower Medicare and Medicaid spending.

Following several years of litigation in the federal courts, in June 2021, the U.S. Supreme Court upheld the ACA when it dismissed a legal challenge to the ACA's constitutionality. Further legislative and regulatory changes under the ACA remain possible, although it is unknown what form any such changes or any law would take, and how or whether it may affect the biopharmaceutical industry as a whole or our business in the future. We expect that changes or additions to the ACA, the Medicare and Medicaid programs and changes stemming from other healthcare reform measures, especially with regard to healthcare access, financing or other legislation in individual states, could have a material adverse effect on the health care industry in the United States.

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 was extended by the Consolidated Appropriations Act for 2023, and will remain in effect through 2032 unless additional Congressional action is taken.

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. Notably, 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 (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 and biosimilar product developers access to samples of brand products. Because generic and biosimilar 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 and biosimilar products. To remedy this concern, the CREATES Act establishes a private cause of action that permits a generic or biosimilar 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 and biosimilar 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 our future commercial products are unknown.

More recently, in August 2022, President Biden signed into the law the Inflation Reduction Act of 2022, or the IRA. Among other things, the IRA has multiple provisions that may impact the prices of drug products that are both sold into the Medicare program and throughout the United States. Starting in 2023, a manufacturer of a drug or biological product covered by Medicare Parts B or D must pay a rebate to the federal government if the drug product’s price increases faster than the rate of inflation. This calculation is made on a drug product by drug product basis and the amount of the rebate owed to the federal government is directly dependent on the volume of a drug product that is paid for by Medicare Parts B or D. Additionally, starting in payment year 2026, CMS will negotiate drug prices annually for a select number of single source Part D drugs without generic or biosimilar competition. CMS will also negotiate drug prices for a select number of Part B drugs starting for payment year 2028. If a drug product is selected by CMS for negotiation, it is expected that the revenue generated from such drug will decrease. In addition to the IRA’s drug price negotiation provisions, President Biden’s Executive Order 14087, issued in October 2022, called for the CMS innovation center to prepare and submit a report to the White House on potential payment and delivery modes that would complement to IRA, lower drug costs, and promote access to innovative drugs. As of February 3, 2023 the report had not been released but it is expected to further inform the current Administration’s priorities and activities in this area.

At the state level, individual states are increasingly aggressive in passing legislation and implementing regulations designed to control pharmaceutical and biological 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 pharmacy benefit managers (PBMs) and other members of the healthcare and pharmaceutical supply chain, an important decision that appears to be leading to further and more aggressive efforts by states in this area. The Federal Trade Commission in mid-2022 also launched sweeping investigations into the practices of the PBM industry that could lead to additional federal and state legislative or regulatory proposals targeting such entities’ operations, pharmacy networks, or financial arrangements. Significant efforts to change the PBM industry as it currently exists in the United States may affect the entire pharmaceutical supply chain and the business of other stakeholders, including biopharmaceutical developers like us. In addition, regional healthcare authorities and individual hospitals are increasingly using bidding procedures to determine what pharmaceutical products and which suppliers will be included in their prescription drug and other healthcare programs. These measures could reduce the ultimate demand for our products, once approved, or put pressure on our product pricing.

We expect that these and 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 receive for any approved drug, which could have an adverse effect on customers for our product candidates. Any reduction in reimbursement from Medicare or other government programs may result in a similar reduction in payments from private payors.

There have been, and likely will continue to be, legislative and regulatory proposals at the foreign, federal and state levels directed at broadening the availability of healthcare and containing or lowering the cost of healthcare. 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. Such reforms could have an adverse effect on anticipated revenue from product candidates that we may successfully develop and for which we may obtain regulatory approval and may affect our overall financial condition and ability to develop product candidates.

Competition

The biotechnology and biopharmaceutical industries are rapidly changing and highly competitive. We are seeking to develop and market drug candidates that will compete with other products and therapies that currently exist or are being developed. Other companies are actively seeking to develop products that have disease targets similar to those we are pursuing. We face competition from many different sources, including commercial, pharmaceutical and biotechnology companies, academic institutions, government agencies and private and public research institutions. Many of our competitors have significantly greater financial, manufacturing, marketing and drug development resources than we do. Smaller or early-stage companies may also prove to be significant competitors, particularly through collaborative arrangements with large and established companies. Our commercial opportunity will be reduced or eliminated if our competitors develop and commercialize products that are safer, more effective, have fewer side effects or are less expensive than any products that we may develop. In addition, competitors compete in the areas of recruiting and retaining qualified scientific and management personnel, establishing clinical trial sites and patient registration for clinical trials, as well as in acquiring technologies and technology licenses. Some of these factors can delay completion of recruitment into our clinical trials.

A large number of drug candidates are in development for the treatment of leukemia and lymphomas, MDS, gastrointestinal, genitourinary, gynecological and thoracic cancers and other advanced solid tumors. Several biopharmaceutical companies have CDK inhibitors in clinical trials including Allorion Therapeutics, Amgen, AstraZeneca, Blueprint, Carrick, Dainippon Sumitomo, Eli Lilly, G1 Therapeutics, Incyclix Bio, Incyte, Kronos Bio, MEI Pharma, Merck, Novartis, Otsuka, Pfizer, Prelude, Servier, Syros, Tiziana and Vincerox. Cardiff Oncology has a PLK1 inhibitor in clinical trials and we believe that Arbutus, Boehringer Ingelheim, GlaxoSmithKline, Merck, Onconova, and Takeda have been and may continue to be evaluating PLK inhibitors for hemato-oncology indications. Several companies are pursuing discovery and research activities in each of the other areas that are the subject of our research and drug development programs.

MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATION

The following discussion and analysis of our financial condition and results of operations should be read together with our consolidated financial statements and the related notes included in this prospectus. This discussion contains forward-looking statements that involve risks and uncertainties because they are based on current expectations and relate to future events and our future financial performance. Our actual results may differ materially from those anticipated in these forward-looking statements because of many important factors, including those set forth under "Risk Factors" and elsewhere in this prospectus.

Overview

We are a clinical-stage biopharmaceutical company developing innovative cancer medicines based on cell cycle, transcriptional regulation and mitosis control biology. We are a pioneer company in the field of cancer cell cycle biology with a vision to improve patient healthcare by translating insights in cancer biology into medicines that can overcome resistance and ultimately increase a patient's overall survival. Our primary focus has been on our transcriptional regulation program, which is evaluating fadraciclib, a CDK2/9 inhibitor, in solid tumors and lymphoma. Separately, our epigenetic/anti-mitotic program is evaluating plogosertib, a PLK1 inhibitor, in solid tumors and lymphoma.

We are evaluating oral fadraciclib and plogosertib in our Phase 1/2 streamlined studies, the aim of which is to assess safety and identify signals of clinical activity which may lead to registration-enabling outcomes.

Fadraciclib Phase 1/2 Study in Advanced Solid Tumors and Lymphoma (065-101; NCT#04983810)

In this ongoing study, twenty-six evaluable patients have been treated in six dose escalation levels so far. The proof-of-concept stage includes seven histologically defined cohorts thought to be sensitive to the drug's mechanism: breast, colorectal (including KRAS mutant), endometrial/uterine, hepatobiliary, ovarian cancers and lymphomas. An additional basket cohort will enroll patients regardless of histology with biomarkers relevant to the drug's mechanism, including MCL1, MYC and/or cyclin E amplified.

Plogosertib Phase 1/2 Study in Advanced Solid Tumors and Lymphoma (140-101; NCT#05358379)

In this ongoing study, fourteen evaluable patients have been treated at five dose escalation levels with no dose limiting toxicities observed. The proof-of-concept stage includes seven mechanistically relevant cohorts including patients with bladder, breast, colorectal (including KRAS mutant), hepatocellular and biliary tract, and lung cancers (both small cell and non-small cell), as well as lymphomas. An additional basket cohort will enroll patients with biomarkers relevant to the drug's mechanism, including MYC amplified tumors. The protocol allows for expansion of individual cohorts based on response which may allow acceleration of the clinical development and registration plan for plogosertib.

We currently retain all marketing rights worldwide to the compounds associated with our drug programs.

Financial Overview

Revenues

We have not generated any revenues from product sales to date. Our product candidates will require significant additional research and development efforts, including extensive preclinical and clinical testing. All product candidates that we advance to clinical testing will require regulatory approval prior to commercial use and will require significant costs for commercialization. We have recognized a small amount of revenue related to recovery of clinical manufacturing costs associated with an investigator sponsored study managed by Cedars-Sinai Medical Center

Research and Development Expenses

From our inception, we have focused on drug discovery and development programs, with a particular emphasis on orally available anticancer agents, and our research and development expenses have represented costs incurred to discover and develop novel small molecule therapeutics, including clinical trial costs for fadraciclib and plogosertib. We have also incurred costs in the advancement of product candidates toward clinical and preclinical trials and the development of in-house research to advance our biomarker program and technology platforms. We expense all research and development costs as they are incurred. Research and development expenses primarily include:

- Clinical trial and regulatory-related costs;

- Payroll and personnel-related expenses, including consultants and contract research organizations;
- Preclinical studies, supplies and materials;
- Technology license costs;
- Stock-based compensation; and
- Rent and facility expenses for our offices.

General and Administrative Expenses

General and administrative expenses include costs for administrative personnel, legal and other professional expenses and general corporate expenses.

Critical Accounting Policies and Estimates

Our discussion and analysis of our financial condition and results of operations is based on our financial statements, which have been prepared in accordance with accounting principles generally accepted in the United States. The preparation of these financial statements requires us to make estimates and judgments that affect the reported amounts of assets, liabilities and expenses and related disclosure of contingent assets and liabilities. We review our estimates on an ongoing basis. We base our estimates on historical experience and on various other factors that we believe to be reasonable under the circumstances. Actual results may differ from these estimates. We believe the judgments and estimates required by the following accounting policies to be critical in the preparation of our consolidated financial statements. We believe the following critical accounting policies reflect our more significant estimates and assumptions used in the preparation of our consolidated financial statements.

Accrued Research and Development Costs

Accrued research and development costs comprise our best estimates related to the cost of clinical trials, laboratory, and manufacturing activities that were incurred, but not paid or invoiced, as of the end of a reporting period.

Data management and monitoring of our clinical trials are performed with the assistance of contract research organizations, or CROs, or clinical research associates, or CRAs, in accordance with our standard operating procedures. Typically, CROs and CRAs bill monthly for services performed, or based upon milestones achieved. We accrue unbilled clinical trial expenses based on estimates of the level of services performed each period. Moreover, clinical trial costs related to patient enrollment are accrued as patients are entered into and progress through the trial.

We also perform outsourced laboratory and manufacturing activities. We accrue for unbilled laboratory and manufacturing activities performed by third parties based on estimates of their progress towards completing the requested tasks.

When recording these accruals, we must make judgments about the progress of our various clinical activities. We (as well as our CROs and CRAs) are reliant on information being provided timely and accurately by the multitude of clinics and hospitals where the studies are being conducted, some of which are located internationally. We must also make estimates about the progress our third-party vendors are making towards completing laboratory and manufacturing activities.

Stock-based Compensation

We grant stock options, restricted stock units and restricted stock to officers, employees, directors and consultants under our 2018 Equity Incentive Plan (the 2018 Plan) and the 2020 Inducement Equity Incentive Plan. We measure compensation cost for all stock-based awards at fair value on date of grant and recognize compensation over the requisite service period. The fair value of restricted stock and restricted stock units is determined based on the number of shares granted and the quoted price of our common stock on the date of grant. The determination of grant-date fair value for stock option awards is estimated using an option-pricing model, which includes variables such as the expected volatility of our share price, the anticipated exercise behavior of our employees, interest rates, and dividend yields. These variables are projected based on our historical data, experience, and other factors. Changes in any of these variables could result in significant adjustments to the expense recognized for share-based payments.

Results of Operations: Year ended December 31, 2022 and 2021 and for the three-month and nine-month periods ended September 30, 2023 and 2022

Research and Development Expenses

The following tables provide information with respect to our research and development expenditures for the years ended December 31, 2022 and 2021 and for the three-month and nine-month periods ended September 30, 2023 and 2022 (in thousands except percentages).

	Year Ended			
	December 31,		Difference	
	2022	2021	\$	%
Transcriptional Regulation (fadraciclib)	\$ 14,043	\$ 10,556	\$ 3,487	33
Anti-mitotic (plogosertib)	5,546	3,579	1,967	55
Other research and development expenses	685	793	(108)	(14)
Total research and development expenses	\$ 20,274	\$ 14,928	\$ 5,346	36

	Three Months Ended				Nine Months Ended			
	September 30,		Difference		September 30,		Difference	
	2023	2022	\$	%	2023	2022	\$	%
Transcriptional Regulation (fadraciclib)	\$ 3,554	\$ 2,512	\$ 1,042	41	\$ 10,683	\$ 8,740	\$ 1,943	22
Epigenetic/anti-mitotic (plogosertib)	1,540	1,707	(167)	(10)	4,249	4,289	(40)	(1)
Other research and development expenses	142	194	(52)	(27)	705	543	162	30
Total research and development expenses	\$ 5,236	\$ 4,413	\$ 823	19	\$ 15,637	\$ 13,572	\$ 2,065	15

Research and development expenses increased by \$5.3 million from \$14.9 million for the year ended December 31, 2021 to \$20.3 million for the year ended December 31, 2022. Expenditure for the transcriptional regulation program increased by \$3.5 million for the year ending December 31, 2022 relative to the respective comparative period. This was due to an increase in clinical trial costs of \$2.8 million associated with the progression of clinical trials for the evaluation of fadraciclib in Phase 1/2 studies, along with an increase in non-clinical expenditure of \$0.7 million. Research and development expenses relating to plogosertib increased by \$2.0 million for the year ending December 31, 2022 relative to the respective comparative period. This was due to an increase in clinical trial costs of \$2.7 million associated with the progression of clinical trials for the evaluation of plogosertib in Phase 1/2 studies, offset by a decrease in non-clinical expenditure of \$0.7 million.

Research and development expenses increased by approximately \$2.0 million from \$13.6 million for the nine months ended September 30, 2022 to \$15.6 million for the nine months ended September 30, 2023. Expenditure for the transcriptional regulation program increased by \$1.9 million for the nine months ended September 30, 2023, relative to the respective comparative period. This was due to an increase in non-clinical expenditure of \$3.0 million, offset by reduction in clinical trial costs of \$1.1 million associated with the progression of clinical trials for the evaluation of fadraciclib in Phase 1/2 studies. Research and development expenses relating to plogosertib remained flat for each of the nine months ended September 30, 2023 and 2022.

(a) *The future*

We continue to anticipate that overall research and development expenses for the year ended December 31, 2023 will decrease compared to the year ended December 31, 2022 as we temporarily halt our Phase 1/2 study in hematological malignancies and progress clinical development of our Phase 1/2 studies in advanced solid tumors and lymphomas.

General and Administrative Expenses

The following tables provide information with respect to our general and administrative expenses for the years ended December 31, 2022 and 2021 and for the three-month and nine-month periods ended September 30, 2023 and 2022 (in thousands except percentages).

	Year Ended			
	December 31,		Difference	
	2022	2021	\$	%
Total general and administrative expenses	\$ 7,382	\$ 7,461	\$ (79)	(1)

	Three Months Ended				Nine Months Ended			
	September 30,		Difference		September 30,		Difference	
	2023	2022	\$	%	2023	2022	\$	%
Total general and administrative expenses	\$ 1,625	\$ 2,054	\$ (429)	(21)	\$ 4,845	\$ 5,239	\$ (394)	(8)

Our general and administrative expenditures remained relatively flat at approximately \$7.4 million for each of the years ended December 31, 2021 and 2022. During the year ended December 31, 2022 as compared to the year ended December 31, 2021, there were increases in employment costs of \$0.3 million, stock compensation costs of \$0.2 million and professional costs of \$0.2 million, offset by reductions in facility costs of \$0.6 million.

General and administrative expenses decreased by approximately \$0.4 million for both the three and nine months ended September 30, 2023 due to a non-recurring \$0.4 million cost associated with the Controlled Equity Offering Sales Agreement with Cantor Fitzgerald & Co. (the "Sales Agreement") in the comparative prior periods.

(b) *The future*

We expect general and administrative expenditures for the year ended December 31, 2023 to be lower than our expenditures for the year ended December 31, 2022, due to management efforts to lower professional costs.

Other income (expense), net

The following tables provide information with respect to our Other income (expense), net for the years ended December 31, 2022 and 2021 and for the three-month and nine-month periods ended September 30, 2023 and 2022 (in thousands except percentages).

	Year Ended			
	December 31,		Difference	
	2022	2021	\$	%
Foreign exchange gains	\$ 233	\$ 44	\$ 189	430
Interest income	210	16	194	1,213
Other income, net	1,298	144	1,154	801
Total other income	\$ 1,741	204	\$ 1,537	753

	Three Months Ended				Nine Months Ended			
	September 30,		Difference		September 30,		Difference	
	2023	2022	\$	%	2023	2022	\$	%
Foreign exchange gains (losses)	\$ 104	\$ 276	\$ (172)	(62)	\$ (58)	\$ 514	\$ (572)	(111)
Interest income	50	67	(17)	(25)	243	88	155	176
Other income (expense), net	(9)	14	(23)	(164)	50	1,294	(1,244)	(96)
Total other income (expense), net	\$ 145	357	\$ (212)	(59)	\$ 235	1,896	\$ (1,661)	(88)

Total other income, net, increased by approximately \$1.5 million from approximately \$0.2 million for the year ended December 31, 2021 to approximately \$1.7 million for the year ended December 31, 2022. The increase in other income primarily relates to royalties receivable under a December 2005 Asset Purchase Agreement, or APA, whereby Xcyte Therapies, Inc., or Xcyte (a business acquired by us in March 2006) sold through the APA and other related agreements certain assets and intellectual property which are not related to our product development plans to ThermoFisher Scientific Company, or TSC. Accordingly, we presented \$1.3 million and \$144,000 as other income received from TSC during the years ended December 31, 2022 and 2021 respectively. We have no knowledge of TSC's activities and cannot predict when we may receive income under the APA, if any.

Foreign exchange gains (losses)

Foreign exchange gains increased by approximately \$189,000 to a gain of \$233,000 for the year ended December 31, 2022 compared to a gain of approximately \$44,000 for the year ended December 31, 2021.

We have intercompany loans in place between our parent company based in New Jersey and our subsidiary based in Scotland. The intercompany loans outstanding are not expected to be repaid in the foreseeable future and the nature of the funding advanced is of a long-term investment nature. Therefore, all unrealized foreign exchange gains or losses arising on the intercompany loans are recognized in other comprehensive income until repayment of the intercompany loan becomes foreseeable. Unfavorable unrealized foreign exchange movements related to intercompany loans resulted in a loss of \$21.2 million for the year ended December 31, 2022 compared to a loss of \$2.1 million for the year ended December 31, 2021.

Total other income decreased by approximately \$1.7 million from \$1.9 million for the nine months ended September 30, 2022 to \$0.2 million for the nine months ended September 30, 2023. Other income for the nine months ended September 30, 2022 relates largely to royalties receivable under a December 2005 Asset Purchase Agreement ("APA") whereby Xcyte Therapies, Inc., or Xcyte (a business acquired by us in March 2006) sold certain assets and intellectual property to ThermoFisher Scientific Company, or TSC (formerly Invitrogen Corporation) through the APA and other related agreements. The assets and technology were not part of our product development plan following the transaction between Xcyte and Cyclacel in March 2006. Accordingly, we presented \$0.1 million and \$1.3 million as other income arising from sales related to this transaction during the nine months ended September 30, 2023 and 2022 respectively.

Foreign exchange gains (losses)

Foreign exchange gains decreased by \$0.6 million, from a gain of \$0.5 million for the nine months ended September 30, 2022, to a loss of \$0.1 million for the nine months ended September 30, 2023.

(c) The future

Other income (expense), net for the year ended December 31, 2023, will continue to be impacted by changes in foreign exchange rates and the receipt of income under the APA. As we are not in control of sales made by TSC, we are unable to estimate the level and timing of income under the APA, if any.

Because the nature of funding advanced through intercompany loans is that of a long-term investment, unrealized foreign exchange gains and losses on such funding will be recognized in other comprehensive income until repayment of any intercompany loan becomes foreseeable.

Income Tax Benefit

Credit is taken for research and development tax credits, which are claimed from the United Kingdom's revenue and customs authority, or HMRC, in respect of qualifying research and development costs incurred. The following tables provide information with respect to total income tax benefit for the years ended December 31, 2022 and 2021 and for the three-month and nine-month periods ended September 30, 2023 and 2022 (in thousands except percentages).

	Year Ended			
	December 31,		Difference	
	2022	2021	\$	%
	As restated (see Note 1)	As restated (see Note 1)		
Income tax benefit	\$ 4,717	\$ 3,728	\$ 989	27
Total income tax benefit	\$ 4,717	\$ 3,728	\$ 989	27

	Three Months Ended				Nine Months Ended			
	September 30,		Difference		September 30,		Difference	
	2023	2022	\$	%	2023	2022	\$	%
Total income tax benefit	\$ 668	\$ 1,014	\$ (346)	(34)	\$ 2,574	\$ 3,136	\$ (562)	(18)

The income tax benefit increased significantly by approximately \$1.0 million, from \$3.7 million for the year ended December 31, 2021 to \$4.7 million for the year ended December 31, 2022. The level of tax credits recoverable is linked directly to qualifying research and development expenditure incurred in any one year.

The total income tax benefit, which comprised of research and development tax credits recoverable, decreased by approximately \$0.6 million from \$3.1 million for the nine months ended September 30, 2022 to \$2.5 million for the nine months ended September 30, 2023 due to legislative changes that took effect in April 2023. The level of tax credits recoverable is linked directly to qualifying research and development expenditure incurred in any one year and the availability of trading losses.

(d) The future

We expect to continue to be eligible to receive United Kingdom research and development tax credits for the year ended December 31, 2023 and will continue to elect to receive payment of the tax credit. The amount of tax credits we will receive is entirely dependent on the amount of eligible expenses we incur and could be restricted by any future cap introduced by HMRC. Beyond 2023, we cannot be certain of our eligibility to receive this tax credit or if eligible, the amount that may be received, due to proposed changes by HMRC to the eligibility criteria.

Liquidity and Capital Resources

The following is a summary of our key liquidity measures as of December 31, 2021 and 2022 (in thousands):

	December 31,	
	2022	2021
	As restated (see Note 1)	As restated (see Note 1)
Cash and cash equivalents	\$ 18,345	\$ 36,559
Working capital:		
Current assets	\$ 24,411	\$ 40,942
Current liabilities	(7,511)	(5,413)
Total working capital	\$ 16,900	\$ 35,529

Cash Flows

Cash provided by (used in) operating, investing and financing activities for the years ended December 31, 2021 and 2022 is summarized as follows (in thousands):

	Year Ended December 31,	
	2022	2021
Net cash used in operating activities	\$ (20,827)	\$ (18,540)
Net cash used in investing activities	(7)	(27)
Net cash provided by financing activities	2,998	21,737

Operating activities

Net cash used in operating activities increased by \$2.3 million, from \$18.5 million for the year ended December 31, 2021 to \$20.8 million for the year ended December 31, 2022. The increase in cash used by operating activities was primarily the result of an increase in our year-over-year net loss of \$2.7 million, a change in working capital of \$0.6 million and a decrease in change in lease liability of \$0.1 million, offset by an increase in stock compensation costs of \$0.3 million.

Investing activities

Net cash used in investing activities decreased by \$20,000 for the year ended December 31, 2022 due to a decrease in capital expenditures on IT equipment.

Financing activities

Net cash provided by financing activities was \$3.0 million for the year ended December 31, 2022 as a direct result of receiving approximately:

- \$3.2 million in net proceeds from the issuance of common stock under a Controlled Equity Offering Sales Agreement with Cantor Fitzgerald & Co.,
- offset by dividend payments of approximately \$0.2 million to the holders of our 6% Convertible Exchangeable Preferred Stock.

Net cash provided by financing activities was \$21.7 million for the year ended December 31, 2021 as a direct result of receiving approximately:

- \$13.5 million in net proceeds from the issuance of common stock under an underwriting agreement with Oppenheimer & Co. Inc.,
- \$4.5 million from warrant exercises associated with a co-placement agency agreement with Roth Capital Partners, LLC, Ladenburg Thalmann & Co. Inc., and Brookline Capital Markets, a division of Arcadia Securities, LLC, and
- \$4.0 million from the issuance of common stock under a controlled equity offering sales agreement with Cantor Fitzgerald & Co., and
- offset by dividend payments of approximately \$0.2 million to the holders of our 6% Convertible Exchangeable Preferred Stock.

The following is a summary of our key liquidity measures as of September 30, 2023 and 2022 (in \$000s):

	September 30,	
	2023	2022
Cash and cash equivalents	\$ 5,944	\$ 23,706
Working capital:		
Current assets	\$ 11,113	\$ 27,915
Current liabilities	(8,148)	(4,472)
Total working capital	\$ 2,965	\$ 23,443

Since our inception, we have relied primarily on the proceeds from sales of common and preferred equity securities to finance our operations and internal growth. Additional funding has come through research and development tax credits, government grants, the sale of product rights, interest on investments and a limited amount of revenue. We have incurred significant losses since our inception. As of September 30, 2023, we had an accumulated deficit of \$423.0 million.

(e) Cash Flows

Cash from operating, investing and financing activities for the nine months ended September 30, 2023 and 2022 is summarized as follows (in \$000s):

	Nine Months Ended September 30,	
	2023	2022
Net cash used in operating activities	\$ (12,202)	\$ (15,658)
Net cash used in investing activities	(6)	(7)
Net cash (used in) provided by financing activities	(151)	2,956

(f) Operating activities

Net cash used in operating activities decreased by \$3.5 million, from \$15.7 million for the nine months ended September 30, 2022 to \$12.2 million for the nine months ended September 30, 2023. The decrease in cash used by operating activities was primarily the result of a change in working capital of \$7.1 million, offset by an increase in net loss of \$3.6 million. The \$7.1 million change in working capital was due to increased balances in clinical trial deposits and receivables for research and development tax credits. A cash receipt of approximately \$4.8 million in research and development tax credit was received during the nine months ended September 30, 2023.

(g) Investing activities

Net cash used by investing activities decreased by \$1,000 for the nine months ended September 30, 2023 due to slightly higher capital expenditures on information technology (“IT”) during the respective comparative period.

(h) Financing activities

Net cash used in financing activities was \$0.2 million for the nine months ended September 30, 2023 as a result of dividend payments of approximately \$0.2 million to the holders of our 6% Preferred Stock.

Net cash provided by financing activities was \$2.9 million for the nine months ended September 30, 2022 as a direct result of receiving approximately \$3.1 million, net of expenses, from the issuance of common stock under the Sales Agreement, offset by dividend payments of approximately \$0.2 million to the holders of our 6% Preferred Stock.

Funding Requirements and Going Concern

As of September 30, 2023, we had cash and cash equivalents of \$5.9 million. We have incurred losses since our inception and as of September 30, 2023, we had an accumulated deficit of \$423.0 million. We expect to continue to incur substantial operating losses in the future.

We do not currently have sufficient funds to complete development and commercialization of any of our drug candidates. Current business and capital market risks could have a detrimental effect on the availability of sources of funding and our ability to access them in the future, which may delay or impede our progress of advancing our drugs currently in the clinical pipeline to approval by the FDA or EMA for commercialization. Additionally, we plan to continue to evaluate in-licensing and acquisition opportunities to gain access to new drugs or drug targets that would fit with our strategy. Any such transaction would likely increase our funding needs in the future. Our future funding requirements will depend on many factors, including but not limited to:

- the rate of progress and cost of our clinical trials, preclinical studies and other discovery and research and development activities;
- the costs associated with establishing manufacturing and commercialization capabilities;
- the costs of acquiring or investing in businesses, product candidates and technologies;
- the costs of filing, prosecuting, defending and enforcing any patent claims and other intellectual property rights;
- the costs and timing of seeking and obtaining FDA and EMA approvals;
- the effect of competing technological and market developments; and
- the economic and other terms and timing of any collaboration, licensing or other arrangements into which we may enter.

Until we can generate a sufficient amount of product revenue to finance our cash requirements, which we may never do, we expect to finance future cash needs primarily through public or private equity offerings, debt financings or strategic collaborations. Although we are not reliant on institutional credit finance and therefore not subject to debt covenant compliance requirements or potential withdrawal of credit by banks, we are reliant on the availability of funds and activity in equity markets. We do not know whether additional funding will be available on acceptable terms, or at all. If we are not able to secure additional funding when needed, we may have to delay, reduce the scope of or eliminate one or more of our clinical trials or research and development programs or make changes to our operating plan. In addition, we may have to partner one or more of our product candidate programs at an earlier stage of development, which would lower the economic value of those programs to us.

Since our inception, we have relied primarily on the proceeds from sales of common and preferred equity securities to finance our operations and internal growth. Additional funding has come through research and development tax credits, government grants, the sale of product rights, interest on investments, licensing revenue, royalty income, and a limited amount of product revenue from operations discontinued in September 2012.

Under ASC Topic 205-40, *Presentation of Financial Statements - Going Concern*, management is required at each reporting period to evaluate whether there are conditions and events, considered in the aggregate, that raise substantial doubt about an entity's ability to continue as a going concern within one year after the date that the financial statements are issued. This evaluation initially does not take into consideration the potential mitigating effect of management's plans that have not been fully implemented as of the date the financial statements are issued.

Based on our current operating plan, we anticipate that our cash and cash equivalents of \$5.9 million as of September 30, 2023 will allow us to meet our liquidity requirements through the end of 2023. However, the current operating plan includes discretionary expenditures, which if not incurred and taken together with the anticipated receipt of research & development tax credits of approximately \$3.1 million in the first quarter of 2024 could extend liquidity requirements into the second quarter of 2024. Our history of losses, our negative cash flows from operations, our liquidity resources currently on hand, and our dependence on the ability to obtain additional financing to fund our operations after the current resources are exhausted, about which there can be no certainty, have resulted in our assessment that there is substantial doubt about our ability to continue as a going concern for a period of at least twelve months from the issuance date of this Quarterly Report on Form 10-Q. While we have plans in place to mitigate this risk, which primarily consist of raising additional capital through a combination of public or private equity or debt financings or by entering into partnership agreements for further development of our drug candidates, there is no guarantee that we will be successful in these mitigation efforts.

SELLING SECURITY HOLDERS

The shares of common stock being offered by the selling security holders are those issued upon the exercise of the Private Warrants and the Placement Agent Warrants. For additional information regarding the issuance of these securities, see “Prospectus Summary - Offering of Common Stock and Warrants”. We are registering the shares of common stock in order to permit the selling security holders to offer the shares for resale from time to time. The Private Warrants have an exercise price of \$3.19 per share and were exercisable immediately following their original issuance and will expire seven years from their original issuance date. The Placement Agent Warrants have an exercise price of \$4.14375 per share and were exercisable immediately following their original issuance and will expire five years from their original issuance date. Other than as described below, the selling security holders have not had any material relationship with us within the past three years.

The selling security holders might not sell any or all of the shares covered by this prospectus or may sell or dispose of some or all of the shares other than pursuant to this prospectus. Because the selling security holders may not sell or otherwise dispose of some or all of the shares covered by this prospectus and because there are currently no agreements, arrangements or understandings with respect to the sale or other disposition of any of the shares, we cannot estimate the number of the shares that will be held by the selling security holders after completion of the offering.

The table below lists the selling security holders and other information regarding the beneficial ownership (as determined under Section 13(d) of the Exchange Act and the rules and regulations thereunder) of the shares of common stock held by each of the selling security holders. The table is prepared based on information supplied to us by the selling security holders. The second column lists the number of shares of common stock beneficially owned by the selling security holders, based on their respective ownership of shares as of February 6, 2024. The third column lists the shares of common stock being offered by this prospectus by the selling security holders. The fourth column assumes the sale of all of the shares offered by the selling security holders pursuant to this prospectus.

Selling Security Holder ⁽¹⁾	Prior to the Offering		Number of Shares of Common Stock Being Registered for Resale	After the Offering	
	Number of Shares of Common Stock Beneficially Owned ⁽²⁾	Percent of Common Stock Outstanding ⁽³⁾		Number of Shares of Common Stock Beneficially Owned ⁽⁴⁾	Percent of Common Stock Outstanding ⁽³⁾⁽⁴⁾
Altium Growth Fund, LP ⁽⁵⁾	82,032	6.22%	194,100	82,032	5.42%
Lind Global Fund II LP ⁽⁶⁾	136,959	9.99%	194,100	158,428	9.99%
Ladenburg Thalmann & Co. Inc. ⁽⁷⁾	9,508	0.72%	9,508	0	0.00%
Nicholas Stergis ⁽⁸⁾	14,261	1.07%	14,261	0	0.00%
Total Shares of Common Stock	242,760	18.00%	411,969	240,460	15.41%

- (1) This table and the information in the notes below are based upon information supplied by the selling security holders, including reports and amendments thereto filed with the SEC on Schedule 13D.
- (2) The number of shares of common stock beneficially owned includes shares of common stock underlying warrants that are exercisable within 60 days of February 6, 2024. The Private Warrants become exercisable on December 21, 2023 and, accordingly, the shares of common stock underlying the Private Warrants are included in the shares of common stock beneficially owned as of February 6, 2024.
- (3) Percentage ownership is based on a denominator equal to the sum of (i) 1,318,257 shares of common stock outstanding as of February 6, 2024 and (ii) the number of shares of common stock underlying warrants that are exercisable within 60 days of February 6, 2024 that are beneficially owned by the applicable selling stockholder.
- (4) Assumes that all shares of common stock being registered under the registration statement of which this prospectus forms a part are sold in this offering, and that none of the selling stockholders acquire additional shares of our common stock after the date of this prospectus and prior to completion of this offering.
- (5) Consists of (i) 82,032 shares of common stock, (ii) 109,850 pre-funded warrants to purchase common stock, and (iii) 224,100 warrants to purchase common stock; however, each of the warrants includes a provision limiting Altium Growth Fund, LP's ability to exercise the warrants if such exercise would cause it to beneficially own greater than 4.99% of the Company.
- (6) Consists of (i) 84,250 shares of common stock, (ii) 109,850 pre-funded warrants to purchase common stock, and (iii) 194,100 warrants to purchase common stock; however, each of the warrants includes a provision limiting Lind Global Fund II LP's ability to exercise the warrants if such exercise would cause it to beneficially own greater than 9.99% of the Company.
- (7) Consists of 9,508 warrants to purchase common stock.
- (8) Consists of 14,261 warrants to purchase common stock.

SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT

The following table sets forth certain information with respect to the beneficial ownership of our common stock as of February 6, 2024 for (a) each of our named executive officers, (b) each of our directors, (c) all of our current directors and executive officers as a group and (d) each stockholder known by us to own beneficially more than 5% of our common stock or Preferred Stock.

Beneficial ownership is determined in accordance with the rules of the SEC and includes voting or investment power with respect to the securities. We deem shares of common stock that may be acquired by an individual or group within 60 days of February 6, 2024 pursuant to the exercise of options to be outstanding for the purpose of computing the percentage ownership of such individual or group, but are not deemed to be outstanding for the purpose of computing the percentage ownership of any other person shown in the table. Except as indicated in footnotes to this table, we believe that the stockholders named in this table have sole voting and investment power with respect to all shares of common stock shown to be beneficially owned by them based on information provided to us by these stockholders. Percentage of ownership of common stock is based on 1,318,257 shares of common stock outstanding as of February 6, 2024.

Name of Beneficial Owners	Number of Shares of Common Stock Beneficially Owned	Percentage of Common Stock Owned	Number of Shares of Preferred Stock Beneficially Owned	Percentage of Preferred Stock Owned
Dr. Samuel L. Barker	4,155	*	0	0
Dr. Kenneth M. Ferguson(1)	2,373	*	0	0
Dr. Christopher Henney	4,089	*	0	0
Paul McBarron(2)	16,056	1.22%	0	0
Spiro Rombotis(3)	29,603	2.25%	1,600	*
Dr. Robert Spiegel	4,073	*	0	0
Dr. Brian Schwartz(4)	4,181	*	0	0
Karin Walker(5)	4,181	*	0	0
Executive officers and directors as a group (8 persons)(6) <i>5% or more stockholders</i>	68,711	5.21%	0	0
Entities affiliated with Lind Global Fund II LP(7)	102,250	7.76%	0	0
Entities affiliated with Altium Growth Fund, LP(8)	82,032	6.22%	0	0

* Represents beneficial ownership of less than 1% of the outstanding shares of our common stock.

(1) Includes options to purchase 176 shares of common stock that are exercisable within 60 days of February 6, 2024.

(2) Includes options to purchase 371 shares of common stock that are exercisable within 60 days of February 6, 2024.

(3) Includes options to purchase 704 shares of common stock that are exercisable within 60 days of February 6, 2024. Does not include 46 shares of common stock beneficially owned by Kalliopi Rombotis, Mr. Rombotis' mother. Mr. Rombotis disclaims beneficial ownership of the foregoing shares.

(4) Includes options to purchase 2,092 shares of common stock that are exercisable within 60 days of February 6, 2024.

(5) Includes options to purchase 9 shares of common stock that are exercisable within 60 days of February 6, 2024.

(6) See footnotes 1 through and including 8.

(7) Based solely on Schedule 13G/A filed with the SEC on January 4, 2024 by Lind Global Fund II, LP. Lind Global Partners II LLC, the general partner of Lind Global Fund II LP, may be deemed to have sole voting and dispositive power with respect to the shares held by Lind Global Fund II LP. Jeff Easton, the managing member of Lind Global Partners II LLC, may be deemed to have sole voting and dispositive power with respect to the shares held by Lind Global Fund II LP.

(8) Based solely on Schedule 13G/A filed with the SEC on January 10, 2024 by Altium Growth Fund, LP. Altium Capital Management, LP is the investment adviser of, and may be deemed to beneficially own securities, owned by the Altium Growth Fund, LP (the "Fund"). Altium Growth GP, LLC is the general partner of, and may be deemed to beneficially own securities, owned by the Fund.

MANAGEMENT AND CORPORATE GOVERNANCE

The Board of Directors

Our charter provides that our business is to be managed by or under the direction of our Board of Directors. Our Board of Directors is divided into three classes for purposes of election. One class is elected at each annual meeting of stockholders to serve for a three-year term. Our Board of Directors currently consists of three classes, as set forth below. We also have two directors who are elected by holders of our 6% Convertible Exchangeable Preferred Stock (the “Preferred Stock”).

Set forth below, as of February 6, 2024, are the names of the directors, their ages, their offices in the Company, if any, their principal occupations or employment for at least the past five years, the length of their tenure as directors and the names of other public companies in which such persons hold or have held directorships during the past five years. Additionally, information about the specific experience, qualifications, attributes or skills that led to our Board of Directors’ conclusion at the time of filing of this prospectus that each person listed below should serve as a director is set forth below:

Name	Age	Position
Spiro Rombotis	65	President and Chief Executive Officer; Class 2 Director
Paul McBarron	63	Executive Vice President - Finance, Chief Financial Officer, Chief Operating Officer and Secretary; Class 3 Director
Dr. Christopher Henney	82	Chairman; Class 3 Director
Dr. Robert Spiegel	74	Vice Chairman; Class 3 Director
Dr. Samuel L. Barker	81	Class 2 Director on behalf of our holders of Preferred Stock
Dr. Kenneth M. Ferguson	68	Class 1 Director on behalf of our holders of Preferred Stock
Dr. Brian Schwartz	62	Class 2 Director; Interim Chief Medical Officer
Karin L. Walker	60	Class 1 Director

Board Diversity Matrix (as of February 6, 2024)

This table provides information on the diversity of our current Board of Directors:

	8	
	Male	Female
Total Number of Directors		
Part I: Gender Identity		
Directors	7	1
Part II: Demographic Background		
White	6	1
Did not Disclose Demographic Background		1

Class 1 Director (Term to Expire in 2025)

Karin L. Walker. Ms. Walker has served as a director of the Company since November 2020 and has over 30 years of extensive finance experience in biopharmaceuticals, including in public biotechnology companies and technology companies. Ms. Walker currently serves as the Chief Accounting Officer of Prothena Corporation plc, a late-stage clinical biotechnology company with expertise in protein dysregulation and a pipeline of investigational therapeutics focused on neurodegenerative and rare peripheral amyloid diseases, and has held this position since 2013. Prior to joining Prothena, she was Vice President, Finance and Chief Accounting Officer of Affymax, Inc., a position she held from 2012 to 2013. From 2009 to 2012, Ms. Walker was Vice President, Finance and Corporate Controller at Amyris Inc. From 2006 to 2009, she was Vice President, Finance and Corporate Controller for CV Therapeutics, Inc. Ms. Walker also held senior financial leadership positions at Knight Ridder Digital, Accellion, Niku Corporation, Financial Engines, Inc. and NeoMagic Corporation. Ms. Walker also served as a director and Audit Committee Chair for LifeSci Acquisition Corp. (a publicly-traded special purpose acquisition company) in 2020. Ms. Walker earned her B.S. in business from the California State Polytechnic University, San Luis Obispo, and is a certified public accountant (CPA). We believe that Ms. Walker’s qualifications to serve on the Board of Directors include experience in the biotechnology and pharmaceutical industry and her many years’ experience in finance.

Preferred Stock Class 1 Director (Term to Expire in 2025)

Dr. Kenneth M. Ferguson. Dr. Ferguson has worked in the biopharmaceutical industry for 30 years, and has led Research and Development operations in a number of publicly funded biotechnology companies. Dr. Ferguson is currently an operating partner at Accelerator Life Science Partners. He served at ICOS Corporation, at various times in its history, as President, Vice President of Therapeutic Development and Senior Director of Research. He was co-team leader of ICOS' joint venture with Eli Lilly and Company that resulted in the launch of Cialis®/Aircirca® for the treatment of erectile dysfunction, benign prostatic hyperplasia and pulmonary arterial hypertension. Subsequently, Dr. Ferguson was Vice President of Development and Chief Development Officer at Omeros Corporation and was involved in the approval and the launch of its first product for use in cataract surgery. Dr. Ferguson has also served as President and CEO of privately held Imvaxyn Corporation, a company dedicated to the exploration of new vaccine technology and was Chief Scientific Officer of EMulate Therapeutics. Dr. Ferguson graduated in biological sciences from Cornell University, obtained his PhD in pharmacology from the University of Texas Health Sciences Center Dallas, and completed his postdoctoral studies at Cold Spring Harbor Laboratory in New York. We believe Dr. Ferguson's qualifications to serve on the Board of Directors include his extensive knowledge and business experience in the biotechnology industry, including as an executive in public companies, where he developed specific expertise in research and development of pharmaceutical products.

Class 2 Directors (Terms to expire in 2026)

Spiro Rombotis. Mr. Rombotis joined Cyclacel as its first CEO in 1997 and has over 38 years at three public biotechs and two pharmas. He participated in in-licensing, clinical development, regulatory approval, partnering and commercial launch of several drugs, mainly in inflammation and hematology/oncology, including Abelcet®, Evacet/Myocet®, ProHance®, Remicade® and Reopro®. Major functional roles included international operations and business development as Vice President at Liposome (subsequently acquired by Elan) and previously Vice President in the pharmaceuticals division of Bristol-Myers Squibb. He began his career in the early '80s, after training at Novartis, as one of the first employees of Centocor (subsequently acquired by Johnson & Johnson). He holds an MBA and MPH (Hospital & Health Services Management) with honors, Kellogg School of Management, Northwestern University and a BA, Williams College (1981 James A. Garfield Scholar). He serves on the Board of Trustees of BioNJ, the NJ biotech association. We believe Mr. Rombotis' qualifications to serve on the Board of Directors include his role as President and Chief Executive Officer of our Company, his extensive knowledge and experience in the biotechnology and life sciences industry and his leadership, strategic guidance and operational vision.

Brian Schwartz, M.D. Dr. Schwartz has served as a director of the company since December 2020 and as our interim Chief Medical Officer since January 2024. Dr. Schwartz has wide-ranging experience as a drug development expert in pharmaceutical and biotechnology industries primarily in oncology, hematology, and rare diseases. From June 2008 to 2020, he served as Senior Vice President, Head of Research & Development and Chief Medical Officer of ArQule Inc., which was acquired for \$2.7 billion by Merck & Co. in 2020. Prior to ArQule, Dr. Schwartz was Chief Medical Officer at Ziopharm, having previously held several senior leadership roles at Bayer and LEO Pharma. He is a current Board Member of Mereo Biopharma, Infinity and Enliven Pharmaceuticals and also served as a director of LifeSci Acquisition Corp. (a publicly-traded special purpose acquisition company) in 2020. In addition, he serves as an advisor, SAB member and independent consultant for numerous biotech and investment companies. He received his medical degree from the University of Pretoria, South Africa, completed a fellowship at the University of Toronto, Canada and practiced medicine prior to his career in the biopharmaceutical industry. We believe Dr. Schwartz's qualifications to serve on the Board of Directors include his extensive knowledge and experience in the biotechnology and life science industry.

Preferred Stock Class 2 Director (Term to Expire in 2026)

Samuel L. Barker. Dr. Barker has served as a director of the Company since September 2014. In 2001, Dr. Barker co-founded Clearview Projects, Inc., a provider of partnering and transaction services to biopharmaceutical companies, where he was active until September 2010, having served as its President and Chief Executive Officer from 2003 to 2004. Dr. Barker served in a series of leadership positions at Bristol-Myers Squibb Company until his retirement in 1999. His positions at Bristol-Myers Squibb included service as Executive Vice President, Worldwide Franchise Management and Strategy during 1998; President, United States Pharmaceuticals from 1992 to 1998; and President, Bristol-Myers Squibb Intercontinental Commercial Operations from 1989 to 1991. Prior to 1989, Dr. Barker held executive positions in research and development, manufacturing, business development and operations planning at Squibb Pharmaceuticals. Dr. Barker has served as a director of Lexicon Pharmaceuticals, Inc. since 2001 and as Chairman from 2005 to 2012. Dr. Barker also served as a director of Cadence Pharmaceuticals, Inc. from 2006 to 2014 and AtheroGenics, Inc. from 2005 to 2009. Dr. Barker received his B.S. from Henderson State College, his M.S. from the University of Arkansas and his Ph.D. from Purdue University. We believe that Dr. Barker's qualifications to serve on the Board of Directors include his extensive experience in senior leadership positions in the global pharmaceutical industry, where he developed specific expertise in the identification, development, commercialization and partnering of pharmaceutical products.

Class 3 Directors (Term to Expire in 2024)

Paul McBarron. Mr. McBarron has served as a director of the Company since March 2006. Mr. McBarron joined Cyclacel in January 2002 and has over 30 years of experience with pharmaceutical and biotechnology companies. He has served as a financial executive at Sterling Drug, Sanofi-Winthrop and SmithKline Beecham and, from 1996 to 2001, as a senior member of the finance team at Shire Pharmaceuticals plc, where he held the positions of Director of Corporate Finance and Group Financial Controller. He joined Shire when it was an emerging public company. He qualified as a chartered accountant with Ernst & Young and served on the Scottish Lifesciences Association Board. We believe Mr. McBarron's qualifications to serve on the Board of Directors include his role as Executive Vice President, Finance and Chief Operating Officer of our Company, his experience in the biotechnology and pharmaceutical industry and his expertise in financial areas and operations.

Christopher S. Henney, Ph.D. D.Sc. Dr. Henney has served as a director of the Company since March 2006. Dr. Henney became Chairman of the Board of Directors of the Company in October 2020. Dr. Henney had served as a director of Xcyte Therapies Inc., acquired by the Company in 2006, since March 2005, and continued on as Vice Chairman of the Company. Previously, Dr. Henney co-founded three major publicly held U.S. biotechnology companies, Immunex, ICOS and Dendreon, and held a seat on the board of directors and executive positions at each company. From 1995 to January 2003, Dr. Henney was Chairman and Chief Executive Officer of Dendreon Corporation. During part of 2016, he was also interim President and Chief Executive Officer of Cascadian Therapeutics Inc. and a board member of Anthera Pharmaceuticals, Inc., both biotechnology companies. Dr. Henney was a director of Prothena Corporation plc from 2013 until May 2022. Dr. Henney received a Ph.D. in experimental pathology from the University of Birmingham and a D.Sc. from the same university for contributions to the field of immunology. In 2012, Dr. Henney was inducted into the Biotechnology Hall of Fame. We believe Dr. Henney's qualifications to serve on the Board of Directors include his extensive knowledge and business experience in the biotechnology industry, including a diversified background as an executive in public companies and as a board member of many public companies, giving him a breadth of knowledge and valuable understanding of our business.

Robert J. Spiegel, M.D. Dr. Spiegel has served as a director of the Company since September 2018. Dr. Spiegel has over 30 years of extensive R&D and operational experience in biopharmaceuticals, including large pharmaceutical and biotechnology companies, and academic startups as well as an advisor to venture capital and private equity funds. Dr. Spiegel has also served as a director of Athenex, Inc., a global biopharmaceutical company, since August 2020, of Geron Corp., a late-stage clinical biopharmaceutical company, since May 2010, and of Ayala Pharmaceuticals, Inc., a clinical-stage oncology company, since December 2017. Dr. Spiegel was an Assistant Professor and Director of the Developmental Therapeutics Program at New York University Medical Center and then spent 25 years at Schering-Plough (subsequently acquired by Merck & Co.), where he joined as the first Director for Oncology Clinical Research. He subsequently held a series of senior executive positions, including Senior Vice President for Worldwide Clinical Research and Chief Medical Officer. During his time at Schering-Plough he led teams that took numerous drug candidates through clinical development and was involved with over 30 New Drug Application approvals by the U.S. FDA. For the last seven years, he has been a consultant to the biotech industry and has served on the Scientific Advisory Board and Board of Directors of multiple biotech companies. Dr. Spiegel received his B.A. from Yale University and his M.D. from the University of Pennsylvania. He completed his specialty training at the National Cancer Institute, National Institute of Health (NIH). We believe Dr. Spiegel's qualifications to serve on the Board of Directors include his extensive knowledge and business experience in the biotechnology industry, including a diversified background as an executive in public companies and as a board member of several public companies, giving him a breadth of knowledge and valuable understanding of our business.

Director Independence

Our Board of Directors has reviewed the materiality of any relationship that each of our directors has with the Company, either directly or indirectly. Based upon this review, our Board of Directors has determined that each of the following directors is an "independent director" as such term is defined by rules of The Nasdaq Stock Market, Inc., or Nasdaq:

- Christopher S. Henney, Ph.D., D.Sc.
- Robert J. Spiegel, M.D.
- Samuel L. Barker, Ph.D.
- Kenneth M. Ferguson, Ph.D.
- Karin L. Walker

The Board of Directors has established three standing committees: (1) the Compensation and Organization Development Committee, (2) the Audit Committee, and (3) the Nominating and Corporate Governance Committee. The Board of Directors has also determined that each member of these committees meets the independence requirements applicable to each such committee as prescribed by Nasdaq and the SEC. In September 2018, the Board of Directors also reconstituted the Science and Technology Committee.

Committees of the Board of Directors and Meetings

Meeting Attendance. During fiscal 2023, there were 11 meetings of our Board of Directors, and the Compensation and Organization Development Committee, the Audit Committee, the Nominating and Corporate Governance Committee and the Science and Technology Committee met collectively a total of 14 times. No director attended fewer than 55% of the total number of meetings of the Board of Directors or of the committees of the Board of Directors on which they served during fiscal 2023. We have adopted a policy encouraging our directors to attend annual meetings of stockholders. Five of our then directors attended our annual stockholders' meeting held on June 13, 2023. Each of the committees of the Board of Directors is described below.

Audit Committee. Our Audit Committee met six times during fiscal 2023. The Audit Committee during such period had four members: Karin L. Walker (Chair), Dr. Christopher Henney, Dr. Samuel L. Barker and Dr. Robert J. Spiegel. Karin L. Walker was appointed as Chairman of the Audit Committee on February 18, 2021. All members of the Audit Committee satisfy the current independence standards promulgated by Nasdaq and the SEC, as such standards apply specifically to members of audit committees. The Board of Directors has determined that Karin L. Walker is an “audit committee financial expert,” as the SEC has defined that term in Item 407 of Regulation S-K.

Our Audit Committee’s role and responsibilities are set forth in the Audit Committee’s written charter and include the authority to retain and terminate the services of our independent registered public accounting firm. In addition, the Audit Committee reviews annual financial statements, considers matters relating to accounting policy and internal controls and reviews the scope of annual audits. For additional information, please see the report of the Audit Committee set forth elsewhere in this proxy statement. A copy of the Audit Committee’s written charter is publicly available on our website at www.cyclacel.com.

Compensation and Organization Development Committee. Our Compensation and Organization Development Committee met three times during fiscal 2023. The Compensation and Organization Development Committee is composed entirely of directors who are not our current or former employees, all of whom qualify as independent under the definition promulgated by Nasdaq and the SEC. The Compensation and Organization Development Committee currently has three members: Dr. Samuel L. Barker (Chairman), Dr. Christopher S. Henney and Dr. Kenneth M. Ferguson. Our Compensation and Organization Development Committee’s role and responsibilities are set forth in its written charter and include reviewing, approving and making recommendations regarding our compensation policies, practices and procedures to ensure that legal and fiduciary responsibilities of the Board of Directors are carried out and that such policies, practices and procedures contribute to our success. The Compensation and Organization Development Committee also administers our 2020 Inducement Equity Incentive Plan, our 2018 Equity Incentive Plan, our 2015 Equity Incentive Plan and our Amended and Restated 2006 Equity Incentive Plan, as amended. Our Compensation and Organization Development Committee is responsible for the determination of the compensation of our chief executive officer, and shall conduct its decision making process with respect to that issue without the chief executive officer present.

A copy of the Compensation and Organization Development Committee’s written charter is publicly available on our website at www.cyclacel.com.

Nominating and Corporate Governance Committee. Our Nominating and Corporate Governance Committee met once during fiscal 2023. The Nominating and Corporate Governance Committee consists of Dr. Christopher S. Henney (Chairman), Karin L. Walker and Dr. Robert J. Spiegel, three of whom qualify as independent under the definition promulgated by Nasdaq and the SEC. The functions of the Nominating and Corporate Governance Committee are set forth in the Nominating and Corporate Governance Committee’s charter and include evaluating and making recommendations to the full Board of Directors as to the size and composition of the Board of Directors and its committees, evaluating and making recommendations as to potential candidates, and evaluating the performance of the Board of Directors. Generally, our Nominating and Corporate Governance Committee considers candidates recommended by stockholders as well as from other sources such as other directors or officers, third party search firms or other appropriate sources. Once identified, the Nominating and Corporate Governance Committee will evaluate a candidate’s qualifications in accordance with its guiding principles as set forth in the Nominating and Corporate Governance Committee’s written charter. Additionally, the Nominating Committee will consider issues of diversity among its members in identifying and considering nominees for director, and strive where appropriate to achieve a diverse balance of backgrounds, perspectives, experience, age, gender, ethnicity and country of citizenship on our board of directors and its committees.

A copy of the Nominating and Corporate Governance Committee’s written charter is publicly available on our website at www.cyclacel.com.

Science and Technology Committee. The Science and Technology Committee, which met four times during fiscal 2023, consists of Dr. Robert J. Spiegel (Chairman), Dr. Samuel L. Barker, Dr. Kenneth M. Ferguson and Dr. Brian Schwartz.

The responsibilities of the Science and Technology Committee are set forth in the Science and Technology Committee's charter and include providing oversight on behalf of the Board of Directors of our overall strategic direction and investment in research and development ("R&D") and technological and scientific initiatives. The Science and Technology Committee also assists the Board of Directors and our management in evaluating risks and potential commercial value of technical profiles regarding our R&D programs and technology, as they might impact our business performance, growth and competitive position.

Board Leadership Structure

Dr. Christopher Henney serves as the Chairman of our Board of Directors and Mr. Rombotis serves as our President and Chief Executive Officer. Dr. Christopher Henney is an independent director under the definition promulgated by Nasdaq and the SEC, and we believe that it is preferable for one of our independent directors to serve as Chairman of the Board of Directors. We also believe that this structure is the most effective structure for us and our stockholders at this time because a separate chairman (i) can provide the Chief Executive Officer with guidance and feedback on his performance, (ii) provides a more effective channel for the Board of Directors to express views on management, and (iii) allows the Chairman to focus on stockholder interests and corporate governance while providing Mr. Rombotis with the ability to focus his attention on managing our day-to-day operations. As Dr. Henney has significant senior level pharmaceutical industry experience, he is particularly well-suited to serve as Chairman.

We recognize that different board leadership structures may be appropriate for companies in different situations. We will continue to re-examine our corporate governance policies and leadership structures on an ongoing basis to ensure that they continue to meet the Company's needs.

Role in Risk Oversight

Management is responsible for managing the risks that we face. The Board of Directors is responsible for overseeing management's approach to risk management that is designed to support the achievement of organizational objectives, including strategic objectives and risks associated with our clinical trials, to improve long-term organizational performance and enhance stockholder value. The involvement of the full Board of Directors in reviewing our strategic objectives and plans, including with respect to our clinical trials, is a key part of the Board of Directors' assessment of management's approach and tolerance to risk. A fundamental part of risk management is not only understanding the risks a company faces and what steps management is taking to manage those risks, but also understanding what level of risk is appropriate for us. In setting our business strategy, our Board of Directors assesses the various risks being mitigated by management and determines what constitutes an appropriate level of risk for us.

While the Board of Directors has ultimate oversight responsibility for overseeing management's risk management process, various committees of the Board of Directors assist it in fulfilling that responsibility. Notably, the Audit Committee assists the Board of Directors in its oversight of risk management in the areas of financial reporting, internal controls and compliance with legal and regulatory requirements, the Nominating and Corporate Governance Committee reviews legal and regulatory compliance risks and the Compensation and Organization Development Committee assists the Board of Directors in its oversight of the evaluation and management of risks related to our compensation policies and practices.

Policy Prohibiting Hedging

Our Insider Trading Policy provides that no employee, officer or director may acquire, sell or trade in any interest or position relating to the future price of Company securities, such as a put option, a call option or a short sale (including a short sale "against the box"), or engage in hedging transactions (including "cashless collars").

Stockholder Communications to the Board of Directors

Generally, stockholders who have questions or concerns should contact our Investor Relations department at (908) 517-7330 or e-mail at ir@cyclacel.com. However, stockholders wishing to submit written communications directly to the Board of Directors should send their communications to our Secretary, Paul McBarron, Cyclacel Pharmaceuticals, Inc., 200 Connell Drive, Suite 1500, Berkeley Heights, New Jersey 07922.

All stockholder communications will be considered by the independent members of our Board of Directors. Items that are unrelated to the duties and responsibilities of the Board may be excluded, such as:

- junk mail and mass mailings;
- resumes and other forms of job inquiries;
- surveys; and
- solicitations or advertisements.

In addition, any material that is unduly hostile, threatening, or illegal in nature may be excluded, provided that any communication that is filtered out will be made available to any independent director upon request.

EXECUTIVE AND DIRECTOR COMPENSATION

Summary Compensation Table

The following table shows the compensation paid or accrued during the last two fiscal years ended December 31, 2022 and 2023 to (1) our President and Chief Executive Officer, (2) our Executive Vice President, Finance, Chief Financial Officer and Chief Operating Officer, and (3) our former Senior Vice President and Chief Medical Officer.

Name and Principal Position	Year	Salary (\$)	Bonus (\$)	Option Awards \$(1)	All Other Compensation \$(2)	Total (\$)
Spiro Rombotis President and Chief Executive Officer	2023	560,131	0	48,581	52,337	661,049
	2022	546,470	169,406	-	47,675	763,551
Paul McBarron(3) Executive Vice President, Finance, Chief Financial Officer, Chief Operating Officer, Secretary	2023	304,214	0	31,003	17,398	352,615
	2022	279,568	93,655	-	21,452	394,675
Mark Kirschbaum, MD Former Senior Vice President and Chief Medical Officer	2023	396,760	0	31,003	52,855	480,618
	2022	381,500	97,644	-	44,699	523,843

(1) These amounts represent the aggregate grant date fair value for option awards computed in accordance with FASB ASC Topic 718. A discussion of the assumptions used in determining grant date fair value may be found in Note 11 to our Financial Statements included in our Annual Report on Form 10-K/A for the year ended December 31, 2022. No Options were granted during the year ended December 31, 2022 to Spiro Rombotis, Paul McBarron, or Mark Kirschbaum. Options were granted during the year ended December 31, 2023 to Spiro Rombotis, Paul McBarron, and Mark Kirschbaum in the amounts of 7,333 shares, 4,680 shares, and 4,680 shares, respectively.

(2) Consists of the following for all executive officers: Payments for private medical and health insurance, life insurance and permanent health insurance; and matching contributions made under the Company's U.S. 401(k) Plan and U.K. Group Personal Pension Plan.

(3) Mr. McBarron's compensation was translated from British pound sterling to the U.S. dollar using the exchange rates of 1.35104 as of December 31, 2022 and 1.24361 as of December 31, 2023.

Narrative Disclosure to Summary Compensation Table

The Compensation and Organization Development Committee of our Board of Directors makes decisions regarding the compensation of our President and Chief Executive Officer. The Compensation and Organization Development Committee is composed entirely of independent directors and meets in executive sessions to discuss and formulate its recommendation for the Chief Executive Officer's base salary and bonus. The Compensation and Organization Development Committee does not rely solely on any predetermined formula or a limited set of criteria in evaluating the Chief Executive Officer's performance for the year but does consider the achievement of preset goals as part of its deliberations.

The evaluation is based on the Chief Executive Officer's success in achieving his performance goals, which include financial, strategic and leadership objectives. The Chief Executive Officer also provides the Compensation and Organization Development Committee with a self-review of his performance as part of the Company's review process. The Compensation and Organization Development Committee also approves the annual compensation (including base salary, bonus, and stock-based compensation) for our other named executive officers based on:

- the executive's scope of responsibilities;
- an informed market assessment of competitive practices for similar roles within peer group companies;
- evaluations of performance for the year, as assessed by the Chief Executive Officer, supported by the Company's performance review process and the executive's self-assessment; and
- recommendations by our Chief Executive Officer for each named executive officer with respect to base salary, cash bonus, and stock-based compensation.

The Compensation and Organization Development Committee is authorized to engage and retain independent consultants and other experts to assist in fulfilling its responsibilities, and the Committee engages periodically an external consultant to provide independent verification of market position and ensure the appropriateness of executive compensation. During the year ended December 31, 2023, our Compensation and Organization Development Committee retained Radford, part of the Aon Rewards Solutions practice, or Radford, an independent, executive compensation consulting firm, to review and provide recommendations concerning our non-employee director and executive director compensation programs. Radford performed services solely on behalf of the Compensation and Organization Development Committee and has no relationship with the Company or management beyond the performance of such services (except that Aon plc provides directors & officers insurance services to the Company). The Compensation and Organization Development Committee has assessed the independence of Radford pursuant to SEC rules and the corporate governance rules of The Nasdaq Stock Market and has concluded that no conflict of interest exists that would prevent Radford from independently representing the Compensation and Organization Development Committee.

Committee Consideration of the Company's 2022 Shareholder Advisory Vote on Executive Compensation

At our 2022 Annual Meeting of Shareholders, approximately 85.6% of the shares voted at the meeting approved, on an advisory basis, the compensation of the Named Executive Officers. Given that a majority of the shares voted approved the 'say on pay' advisory proposal, the Committee did not implement specific changes and continued with its performance-based compensation philosophy and its balanced approach to various components of its compensation program. However, the Compensation Committee does monitor the results of the annual advisory 'say-on-pay' proposal and refers to such results as one of many factors considered in connection with the discharge of its responsibilities.

During the most recent year ended December 31, 2023, the Board of Directors and the Compensation and Organization Development Committee reviewed the annual compensation for our executive officers. The Compensation and Organization Development Committee determined to provide increases in base salary for 2023 to Spiro Rombotis, Paul McBarron and Mark Kirschbaum, raising annual salaries to \$560,131, £244,622 (or \$304,214) and \$396,760, respectively.

We granted 3,840, 2,080, and 2,080 restricted stock units to Spiro Rombotis, Paul McBarron and Mark Kirschbaum, respectively, during the year ended December 31, 2023.

Spiro Rombotis, President and Chief Executive Officer. On April 28, 2023, we entered into a two-year employment agreement with Mr. Spiro Rombotis, effective January 1, 2023.

Mr. Rombotis' current annual base salary is \$560,131, which may be increased in the future in accordance with the terms of his employment agreement. Mr. Rombotis was paid an annual base salary of \$560,131 for the year ending December 31, 2023 and \$546,470 for the year ending December 31, 2022. Mr. Rombotis is also eligible for a yearly incentive cash bonus, based on a percentage of his then current base salary, if he meets certain corporate and individual performance criteria set by the Compensation and Organization Development Committee at the beginning of each year of employment. The agreement also provides for reimbursement of reasonable and necessary expenses incurred by Mr. Rombotis in connection with his performance of his services. Mr. Rombotis is also entitled to certain employment benefits in accordance with the Company's benefit policies in effect from time to time.

In addition, Mr. Rombotis also agreed to certain confidentiality and assignment of inventions obligations and will be subject to certain non-competition obligations for a period of one year following termination of his employment.

For further information on terms regarding termination and change-in-control of the Company, see “*Potential Payments upon Termination or Change-in-Control*” below.

Paul McBarron, Executive Vice President - Finance, Chief Financial Officer, Chief Operating Officer and Secretary. On April 28, 2023, we entered into a two-year employment agreement with Mr. Paul McBarron, effective January 1, 2023. Mr. McBarron’s current annual base salary is \$293,546 or £244,622, which may be increased in the future in accordance with the terms of his employment agreement.

Mr. McBarron was paid an annual base salary of £244,622, or \$304,214 for the year ending December 31, 2023 and £226,133, or \$279,568, for the year ending December 31, 2022, respectively. Mr. McBarron is also eligible for a yearly incentive cash bonus based on a percentage of his then current base salary, if he meets certain corporate and individual performance criteria set by the Compensation and Organization Development Committee at the beginning of each year of employment. The agreement also provides for reimbursement of reasonable and necessary expenses incurred by Mr. McBarron in connection with the performance of his services. Mr. McBarron is also entitled to certain employment benefits in accordance with the Company’s benefit policies in effect from time to time.

In addition, Mr. McBarron also agreed to certain confidentiality and assignment of inventions obligations and will be subject to certain non-competition obligations for a period of one year following termination of his employment.

For further information on terms regarding termination and change-in-control of the Company, see “*Potential Payments upon Termination or Change-in-Control*” below.

Mark Kirschbaum, Former Senior Vice President and Chief Medical Officer. On October 17, 2020, we entered into an employment agreement with Dr. Mark Kirschbaum, effective October 23, 2020. We terminated Dr. Kirschbaum’s employment on January 25, 2024.

Prior to his termination, Dr. Kirschbaum’s annual base salary was \$396,760. Dr. Kirschbaum was paid an annual base salary of \$396,760 for the year ending December 31, 2023 and \$381,500 for the year ending December 31, 2022.

In addition, Dr. Kirschbaum also agreed to certain confidentiality and assignment of inventions obligations and will be subject to certain non-competition obligations for a period of one year following termination of his employment.

EQUITY COMPENSATION PLAN INFORMATION

Outstanding Equity Awards at 2023 Fiscal Year-End

The following table shows grants of stock options outstanding on the last day of the fiscal year ended December 31, 2023, to each of the executive officers named in the Summary Compensation Table. As applicable, the figures described in this section have been adjusted to give effect to the reverse stock split completed on December 15, 2023.

Name	Number of Securities Underlying Options Exercisable	Number of Securities Underlying Options Unexercisable	Option Exercise Price(1) (\$)	Option Expiration Date
Spiro Rombotis	22(2)		3,096.00	02/18/2025
	121(3)		2,120.40	12/07/2025
	104(4)		522.00	12/29/2027
	95(4)		468.00	02/22/2028
	1,693(5)		213.00	01/04/2029
	11,666(6)		64.80	12/11/2030
	9,500(8)	3,166	51.75	12/13/2031
Paul McBarron	0(9)	7,333	8.70	06/27/2033
	14(2)		3,096	02/18/2025
	72(3)		2,120.40	12/07/2025
	86(4)		522.00	12/29/2027
	79(4)		468.00	02/22/2028
	900(5)		213.00	01/04/2029
	8,000(6)		64.80	12/11/2030
Mark Kirschbaum (10)	5,000(8)	1,666	51.75	12/13/2031
	0(9)	4,680	8.70	06/27/2033
	8,000(7)	0	56.55	10/23/2030
	5,000(8)	1,666	51.75	12/13/2031
	0(9)	4,680	8.70	06/27/2033

(1) The option exercise price is the closing price of our common stock on The Nasdaq Capital Market on the date the option was granted.

(2) These options were granted on February 18, 2015, and vest ratably on a monthly basis over 36 months.

(3) These options were granted on December 7, 2015, and vest ratably on a monthly basis over 36 months.

(4) Certain performance criteria were deemed to have been met in 2018 and 2019, and as such, performance-based options granted in 2017 and 2018 vested.

(5) These options were granted on January 4, 2019 and included part of the 2018 bonus award, and vest ratably on a monthly basis over 36 months.

(6) These options were granted on December 11, 2020, and vest ratably on a monthly basis over 36 months.

(7) These options were granted on October 23, 2020 and vest over 36 months as to one third (1/3) of the shares on the first anniversary of the Grant Date and as to one thirty-sixth (1/36) of the total number shares monthly thereafter.

(8) These options were granted on December 13, 2021, and vest ratably on a monthly basis over 36 months.

(9) These options were granted on June 27, 2023, and vest on achievement of certain performance criteria.

(10) We terminated Dr. Kirschbaum's employment on January 25, 2024. These options have ceased vesting as of January 25, 2024, and have not been exercised as of February 6, 2024.

Potential Payments Upon Termination or Change-in-Control

We have entered into agreements that require us to make payments and/or provide benefits to certain of our executive officers in the event of a termination of employment or change-in-control. Our 2006 Equity Incentive Plan, or 2006 Plan, our 2015 Equity Incentive Plan, or 2015 Plan, our 2018 Equity Incentive Plan, or 2018 Plan, and our 2020 Inducement Equity Incentive Plan, or 2020 Plan (and collectively with the 2006 Plan, 2015 Plan, and 2018 Plan the "Plans") provide for payments to named executive officers in connection with a termination or a change-in-control of the Company.

The following summarizes the potential payments to certain of our executive officers with whom we have entered into an employment agreement that includes a payment upon termination and/or a change-in-control, as further described below.

Spiro Rombotis, President and Chief Executive Officer. Mr. Rombotis's employment agreement provides for certain severance arrangements. In the event that Mr. Rombotis's employment is terminated "without cause," other than termination in connection with a "change of control" (each as defined in the employment agreement), we will be required to pay Mr. Rombotis (i) all accrued but unpaid compensation up to the time of such termination; (ii) for a period of twelve months following such termination, severance payments in the form of his base salary as in effect immediately prior to such termination, or Severance Payments, including form of continuation coverage of his medical care and life insurance on the same terms as applicable to other executive employees, unless Mr. Rombotis obtains substitute coverage; and (iii) a period of six months in which to exercise all vested options held by Mr. Rombotis. In the event that Mr. Rombotis's employment is terminated within six months following a "change-in-control" event, Mr. Rombotis will be entitled to (i) all accrued but unpaid compensation up to the time of such termination; (ii) Severance Payments for a period of 24 months; (iii) out-of-pocket expenses reasonably incurred by Mr. Rombotis in connection with his and his family's relocation to London; and (iv) eighteen months' accelerated vesting of any options held by him. In the event of termination due to his death or disability, we will pay Mr. Rombotis (or his estate, as the case may be) (i) all accrued but unpaid compensation up to the time of such termination and (ii) Severance Payments for a period of twelve months. He (or his estate, as the case may be) would also be entitled to a period of twelve months in which all of his vested options can be exercised.

Paul McBarron, Executive Vice President - Finance, Chief Financial Officer, Chief Operating Officer and Secretary. Mr. McBarron's employment agreement provides for certain severance arrangements. In the event that Mr. McBarron's employment is terminated "without cause," other than termination in connection with a "change of control" (each as defined in his employment agreement), we will be required to pay Mr. McBarron (i) all accrued but unpaid compensation up to the time of such termination; (ii) Severance Payments for a period of twelve months following such termination; and (iii) a period of six months in which to exercise all vested options held by Mr. McBarron. In the event that Mr. McBarron's employment is terminated within six months following a "change-in-control" event, Mr. McBarron will be entitled (i) all accrued but unpaid compensation up to the time of such termination; (ii) Severance Payments for a period of twelve months; and (iii) eighteen months' accelerated vesting of any options held by him. In the event of termination due to his death or disability, we will pay Mr. McBarron (or his estate, as the case may be) all accrued but unpaid compensation up to the time of such termination and Severance Payments for a period of twelve months. He (or his estate, as the case may be) would also be entitled to a period of twelve months in which all of his vested options can be exercised.

Potential payments to each named executive officer under our Plans in connection with a termination or a change-in-control of the Company. The following summarizes the potential payments to each named executive officer under the Plans in connection with a termination or a change-in-control of the Company.

Termination For Cause. If an award recipient's service relationship with the Company terminates for "cause" (as defined in the Plans), then any unexercised award shall terminate immediately upon his or her termination of service.

Termination Without Cause. If an award recipient's service relationship with the Company terminates for any reason other than for "cause" (excluding death or disability), then the recipient generally may exercise the award, to the extent vested, within 30 days (in our 2006 Plan) or three months (in our 2015 Plan, 2018 Plan, and 2020 Plan), of such termination to the extent that the award is vested on the date of termination (but in no event later than the expiration of the term of the award as set forth in the award agreement). If the recipient dies within three months following such a termination, the award generally may be exercised, to the extent vested, within 180 days' or one year (as per the 2006 Plan, 2015 Plan, 2018 Plan, and 2020 Plan, respectively) of the recipient's death. If an award recipient's service relationship with the Company terminates due to his or her death, the award recipient's personal representative, estate, or the person who acquires the right to exercise the award by bequest or inheritance, as the case may be, generally may exercise the award, to the extent the award was vested on the date of termination, within one year from the date of the recipient's death. Pursuant to the 2006 Plan, if an award recipient's service relationship with the Company terminates due to his or her disability, the recipient, the recipient's personal representative, estate, or the person who acquires the right to exercise the award by bequest or inheritance, as the case may be, generally may exercise the award, to the extent exercisable on the date of termination, within one year from the date of the recipient's termination, or if the recipient dies during such one-year period, within the later of one year from the date of the recipient's termination and 180 days from the recipient's death. In no event may an award be exercised later than the expiration of the term of the award as set forth in the award agreement. Pursuant to the 2015 Plan, 2018 Plan, and 2020 Plan, with regard to options outstanding on the date of an individual's termination due to disability, he or she may exercise any option to the extent that the option is exercisable but has not been exercised on the date of termination. Such an individual is also entitled to any additional vesting rights that would have accrued on the next vesting date had he or she not become disabled. Exercise may only occur during the one-year period after the date of termination. With regard to stock grants and stock-based awards outstanding on the date of an individual's termination due to disability, to the extent the forfeiture provisions or the Company's rights of repurchase have not lapsed, they shall be exercisable; provided, however, that in the event such forfeiture provisions or rights of repurchase lapse periodically, they shall lapse to the extent of a pro rata portion of the shares subject to such stock grant or stock-based award through the date of disability as would have lapsed had the individual not become disabled.

Change-in-Control. Pursuant to the terms of the Plans, in the event of a change-in-control (as defined in the Plans), all outstanding awards granted under the Plans will be either:

- assumed by the successor corporation or a parent or subsidiary of the successor corporation; or
- substituted with an equivalent award by the successor corporation or a parent or subsidiary of the successor corporation.

However, in the event that the successor corporation refuses to assume or substitute an award:

- awards consisting of options, stock appreciation rights and rights to purchase restricted stock will become fully vested and immediately exercisable, including awards that would not otherwise have become vested or exercisable; and
- all other awards will become fully earned and eligible to receive a payout.

For the purposes of the Plans, a participant's award will be considered assumed if, following the change-in-control, the assumed award confers, for each share of the Company's common stock subject to the award immediately prior to the change-in-control, the right to receive the consideration (whether stock, cash, or other securities or property) received in the change-in-control for each share of common stock held on the effective date of the transaction; provided, however, that if the consideration received in the change-in-control is not solely common stock of the successor corporation or its parent, the committee administering the plan may, with the consent of the successor corporation, provide for the consideration per share to be received upon the exercise of the award, to be solely common stock of the successor corporation or its parent equal in fair market value to the per share consideration received by holders of the Company's common stock in the change-in-control.

Under the Plans, a change-in-control is the occurrence of one of the following events:

- a person, partnership, joint venture, corporation or other entity, or two or more of any of the foregoing acting as a group (or any “person” within the meaning of Sections 13(d)(3) and 14(d) of the Exchange Act), other than the Company, a Subsidiary, or an employee benefit plan (or related trust) of the Company or a Subsidiary, become(s) the “beneficial owner” (as defined in Rule 13d-3 under the Exchange Act) of 30% or more of the then-outstanding voting stock of the Company;
- during any period of two consecutive years, individuals who at the beginning of such period constitute the Board of Directors (together with any new director whose election by the Board of Directors or whose nomination for election by the Company’s stockholders, was approved by a vote of at least two-thirds of the directors then still in office who either were directors at the beginning of such period or whose election or nomination for election was previously so approved) cease for any reason to constitute a majority of the directors then in office;
- all or substantially all of the business of the Company is disposed of pursuant to a merger, consolidation or other transaction in which the Company is not the surviving corporation or the Company combines with another Company and is the surviving corporation (unless the stockholders of the Company immediately following such merger, consolidation, combination, or other transaction beneficially own, directly or indirectly, more than 50% of the aggregate voting stock or other ownership interests of (x) the entity or entities, if any, that succeed to the business of the Company or (y) the combined company);
- the Company is a party to a merger, consolidation, sale of assets or other reorganization, or a proxy contest, as a consequence of which the Board of Directors in office immediately prior to such transaction or event constitutes less than a majority of the Board of Directors thereafter; or the stockholders of the Company approve a sale of all or substantially all of the assets of the Company or a liquidation or dissolution of the Company.

Director Compensation

The following table shows the total compensation paid or accrued during the fiscal year ended December 31, 2023 to each of our non-employee directors. Directors who are employed by us are not compensated for their service on our Board of Directors. As applicable, the figures described in this section have been adjusted to give effect to the reverse stock split completed on December 15, 2023.

Name	Fees Earned or Paid in Cash (\$)	Option Awards (\$)(1)(2)	Stock Awards (\$)(1)(3)	Total (\$)
Christopher S. Henney, Ph.D. D.Sc	\$ 105,500	\$ 18,991	\$ 12,500	\$ 136,991
Robert J. Spiegel, M.D.	\$ 84,500	\$ 18,991	\$ 12,500	\$ 115,991
Samuel L. Barker, Ph.D.	\$ 66,500	\$ 18,991	\$ 12,500	\$ 97,991
Kenneth M. Ferguson, Ph.D.	\$ 54,000	\$ 18,991	\$ 12,500	\$ 85,491
Brian Schwartz, M.D.	\$ 53,000	\$ 18,991	\$ 12,500	\$ 84,491
Karin L. Walker	\$ 64,000	\$ 18,991	\$ 12,500	\$ 95,491

(1) These amounts represent the aggregate grant date fair value of options and restricted stock units granted to each director during the year ended December 31, 2023 computed in accordance with FASB ASC Topic 718. A discussion of the assumptions used in determining grant date fair value may be found in Note 11 to our financial statements included on our Form 10-K/A for the fiscal year ended December 31, 2023.

(2) The fair value of the options granted on June 30, 2023 was \$6.71 per share. Each non-employee director held an aggregate of 2,829 stock options as of December 31, 2023.

(3) The fair value of RSUs granted on June 30, 2023 was \$8.84 per share. Each non-employee director held an aggregate of 1,415 RSUs as of December 31, 2023.

Director Compensation Program

Under the terms of our Director Compensation Program, the non-employee members of our Board of Directors are paid a fixed annual fee, payable on a quarterly basis, in arrears, on the first day of each quarter, as follows:

Chairman of the Board	\$	85,000
Vice Chairman of the Board	\$	65,000
Other Non-Management Board Members	\$	45,000

The Chair of each of the various committees of the Board of Directors will also receive the following fixed annual fee, payable on a quarterly basis, in arrears, on the first day of each quarter, as follows:

Audit	\$	15,000
Compensation and Organization Development	\$	10,000
Nominating and Corporate Governance	\$	8,000
Science and Technology	\$	8,000

The non-Chair members of each of the various committees of the Board of Directors will also receive the following fixed annual member fee, payable on a quarterly basis, in arrears, on the first day of each quarter, as follows:

Audit	\$	7,500
Compensation and Organization Development	\$	5,000
Nominating and Corporate Governance	\$	4,000
Science and Technology	\$	4,000

In addition, the non-employee members of our Board of Directors are entitled to receive stock options and / or restricted stock options (RSUs) on their initial appointment to the Board and on an annual basis on the date of the Company's annual meeting, such options and RSUs to vest fully on the first anniversary of the date of the grant. The non-employee directors are also reimbursed for customary business expenses in connection with attending Board of Directors and committee meetings.

Equity Compensation Plan Information

The following table provides certain aggregate information with respect to all of our equity compensation plans in effect as of December 31, 2023. As applicable, the figures described in this section have been adjusted to give effect to the reverse stock split completed on December 15, 2023.

Plan Category	(a)	(b)	(c)
	Number of Securities to be issued upon exercise of outstanding options, warrants and rights	Weighted average exercise price of outstanding options, warrants, and rights	Number of Securities remaining available for future issuance under equity compensation plans (excluding securities reflected in column (a))
Total equity compensation plans approved by security holders(1)	137,446	\$ 59.11	22,466
Equity compensation plans not approved by security holders(2)	8,000	\$ 56.55	5,333

(1) Consists of our 2018 Plan, our 2015 Plan, and our 2006 Plan. The Plans provide for the grant of incentive stock options, nonqualified stock options, stock appreciation rights, restricted stock, restricted stock units and performance units. There were no shares available for issuance, as of the date hereof, under the 2006 Plan or the 2015 Plan.

(2) Consists of our 2020 Plan. The 2020 Plan provides for the grant of nonqualified stock options, stock appreciation rights, restricted stock, restricted stock units and performance units.

CERTAIN RELATIONSHIPS AND RELATED PERSON TRANSACTIONS

Our Audit Committee reviews and approves in advance all related-party transactions. Except as described below, there have been no transactions during our last two fiscal years with our directors and officers and beneficial owners of more than 5% of our voting securities and their affiliates.

On December 21, 2023, in the Insider Private Placement, we entered into the Insider Securities Purchase Agreement pursuant to which we agreed to sell in a private placement (i) 6,070 shares of common stock and warrants to purchase 6,070 shares of common stock on the same terms as the Private Warrants issued to the Purchasers in the Offerings to Spiro Rombotis, our Chief Executive Officer, and (ii) 1,886 shares of common stock and warrants to purchase 1,886 shares of common stock on the same terms as the Private Warrants issued to the Purchasers in the Offerings to Paul McBarron, our Executive Vice President-Finance, Chief Financial Officer and Chief Operating Officer. Each such share of common stock and accompanying warrant was sold at a purchase price of \$3.315, which was the same purchase price for the Shares sold in the Registered Direct Offering.

PLAN OF DISTRIBUTION

Each selling stockholder of the shares of the securities and any of their pledgees, assignees and successors-in-interest may, from time to time, sell any or all of their securities covered hereby on Nasdaq or any other stock exchange, market or trading facility on which the securities are traded or in private transactions. These sales may be at fixed or negotiated prices. A selling stockholder may use any one or more of the following methods when selling securities:

- ordinary brokerage transactions and transactions in which the broker-dealer solicits purchasers;
- block trades in which the broker-dealer will attempt to sell the securities as agent but may position and resell a portion of the block as principal to facilitate the transaction;
- purchases by a broker-dealer as principal and resale by the broker-dealer for its account;
- an exchange distribution in accordance with the rules of the applicable exchange;
- privately negotiated transactions;
- settlement of short sales;
- in transactions through broker-dealers that agree with the Selling Stockholders to sell a specified number of such securities at a stipulated price per security;
- through the writing or settlement of options or other hedging transactions, whether through an options exchange or otherwise;
- a combination of any such methods of sale; or
- any other method permitted pursuant to applicable law.

The Selling Stockholders may also sell securities under Rule 144 or any other exemption from registration under the Securities Act, if available, rather than under this prospectus.

Broker-dealers engaged by the Selling Stockholders may arrange for other brokers-dealers to participate in sales. Broker-dealers may receive commissions or discounts from the Selling Stockholders (or, if any broker-dealer acts as agent for the purchaser of securities, from the purchaser) in amounts to be negotiated, but, except as set forth in a supplement to this Prospectus, in the case of an agency transaction not in excess of a customary brokerage commission in compliance with FINRA Rule 2440; and in the case of a principal transaction a markup or markdown in compliance with FINRA IM-2440.

In connection with the sale of the securities or interests therein, the Selling Stockholders may enter into hedging transactions with broker-dealers or other financial institutions, which may in turn engage in short sales of the securities in the course of hedging the positions they assume. The Selling Stockholders may also sell securities short and deliver these securities to close out their short positions, or loan or pledge the securities to broker-dealers that in turn may sell these securities. The Selling Stockholders may also enter into option or other transactions with broker-dealers or other financial institutions or create one or more derivative securities which require the delivery to such broker-dealer or other financial institution of securities offered by this prospectus, which securities such broker-dealer or other financial institution may resell pursuant to this prospectus (as supplemented or amended to reflect such transaction).

The Selling Stockholders and any broker-dealers or agents that are involved in selling the securities may be deemed to be “underwriters” within the meaning of the Securities Act in connection with such sales. In such event, any commissions received by such broker-dealers or agents and any profit on the resale of the securities purchased by them may be deemed to be underwriting commissions or discounts under the Securities Act. Each Selling Stockholder has informed the Company that it does not have any written or oral agreement or understanding, directly or indirectly, with any person to distribute the securities.

The Company is required to pay certain fees and expenses incurred by the Company incident to the registration of the securities. The Company has agreed to indemnify the Selling Stockholders against certain losses, claims, damages and liabilities, including liabilities under the Securities Act.

We agreed to keep this prospectus effective until the earlier of (i) the date on which the securities may be resold by the Selling Stockholders without registration and without regard to any volume or manner-of-sale limitations by reason of Rule 144, without the requirement for the Company to be in compliance with the current public information under Rule 144 under the Securities Act or any other rule of similar effect or (ii) all of the securities have been sold pursuant to this prospectus or Rule 144 under the Securities Act or any other rule of similar effect. The resale securities will be sold only through registered or licensed brokers or dealers if required under applicable state securities laws. In addition, in certain states, the resale securities covered hereby may not be sold unless they have been registered or qualified for sale in the applicable state or an exemption from the registration or qualification requirement is available and is complied with.

Under applicable rules and regulations under the Exchange Act, any person engaged in the distribution of the resale securities may not simultaneously engage in market making activities with respect to the common stock for the applicable restricted period, as defined in Regulation M, prior to the commencement of the distribution. In addition, the Selling Stockholders will be subject to applicable provisions of the Exchange Act and the rules and regulations thereunder, including Regulation M, which may limit the timing of purchases and sales of the common stock by the Selling Stockholders or any other person. We will make copies of this prospectus available to the Selling Stockholders and have informed them of the need to deliver a copy of this prospectus to each purchaser at or prior to the time of the sale (including by compliance with Rule 172 under the Securities Act).

DESCRIPTION OF OUR COMMON STOCK

We are authorized to issue 100,000,000 shares of common stock, \$0.001 par value per share. As of February 6, 2024, 1,318,257 shares of common stock were issued and outstanding. The following descriptions of our common stock and provisions of our amended and restated certificate of incorporation and amended and restated by-laws are only summaries, and we encourage you to review complete copies of these documents, which have been filed as exhibits to our periodic reports with the SEC.

Transfer Agent

Our transfer agent and registrar for our common stock is Equiniti Trust Company, LLC.

Listing

Our common stock is listed for quotation on The Nasdaq Capital Market under the symbol "CYCC."

Dividends, Voting Rights and Liquidation

Holders of common stock are entitled to one vote for each share held of record on all matters submitted to a vote of the stockholders, and do not have cumulative voting rights. Subject to preferences that may be applicable to any outstanding shares of preferred stock, holders of common stock are entitled to receive ratably such dividends, if any, as may be declared from time to time by our board of directors out of funds legally available for dividend payments. All outstanding shares of common stock are fully paid and non-assessable, and the shares of common stock to be issued upon completion of this offering will be fully paid and non-assessable. The holders of common stock have no preferences or rights of conversion, exchange, pre-emption or other subscription rights. There are no redemption or sinking fund provisions applicable to the common stock. In the event of any liquidation, dissolution or winding-up of our affairs, holders of common stock will be entitled to share ratably in our assets that are remaining after payment or provision for payment of all of our debts and obligations and after liquidation payments to holders of outstanding shares of preferred stock, if any.

Delaware Law and Certain Charter and By-law Provisions

The provisions of (1) Delaware law, (2) our amended and restated certificate of incorporation, and (3) our amended and restated bylaws discussed below could discourage or make it more difficult to accomplish a proxy contest or other change in our management or the acquisition of control by a holder of a substantial amount of our voting stock. It is possible that these provisions could make it more difficult to accomplish, or could deter, transactions that stockholders may otherwise consider to be in their best interests or in our best interests. These provisions are intended to enhance the likelihood of continuity and stability in the composition of our board of directors and in the policies formulated by the board of directors and to discourage certain types of transactions that may involve an actual or threatened change of control of us. These provisions are designed to reduce our vulnerability to an unsolicited acquisition proposal. The provisions also are intended to discourage certain tactics that may be used in proxy fights. Such provisions also may have the effect of preventing changes in our management.

Delaware Statutory Business Combinations Provision. We are subject to the anti-takeover provisions of Section 203 of the Delaware General Corporation Law. In general, Section 203 prohibits a publicly-held Delaware corporation from engaging in a “business combination” with an “interested stockholder” for a period of three years after the date of the transaction in which the person became an interested stockholder, unless the business combination is, or the transaction in which the person became an interested stockholder was, approved in a prescribed manner or another prescribed exception applies.

For purposes of Section 203, a “business combination” is defined broadly to include a merger, asset sale or other transaction resulting in a financial benefit to the interested stockholder, and, subject to certain exceptions, an “interested stockholder” is a person who, together with his or her affiliates and associates, owns (or within three years prior, did own) 15% or more of the corporation’s voting stock.

Classified Board of Directors; Removal of Directors for Cause. Our amended and restated certificate of incorporation and amended and restated bylaws provide that our board of directors is divided into three classes, each serving staggered three-year terms ending at the annual meeting of our stockholders. All directors elected to our classified board of directors will serve until the election and qualification of their respective successors or their earlier resignation or removal. The board of directors is authorized to create new directorships and to fill such positions so created and is permitted to specify the class to which any such new position is assigned. The person filling such position would serve for the term applicable to that class. The board of directors (or its remaining members, even if less than a quorum) is also empowered to fill vacancies on the board of directors occurring for any reason for the remainder of the term of the class of directors in which the vacancy occurred. Members of the board of directors may only be removed for cause and only by the affirmative vote of 80% of our outstanding voting stock. These provisions are likely to increase the time required for stockholders to change the composition of the board of directors. For example, in general, at least two annual meetings will be necessary for stockholders to effect a change in a majority of the members of the board of directors.

Advance Notice Provisions for Stockholder Proposals and Stockholder Nominations of Directors. Our amended and restated bylaws provide that, for nominations to the board of directors or for other business to be properly brought by a stockholder before a meeting of stockholders, the stockholder must first have given timely notice of the proposal in writing to our Secretary. For an annual meeting, a stockholder’s notice generally must be delivered not less than 45 days nor more than 75 days prior to the anniversary of the mailing date of the proxy statement for the previous year’s annual meeting. For a special meeting, the notice must generally be delivered by the later of 90 days prior to the special meeting or ten days following the day on which public announcement of the meeting is first made. Detailed requirements as to the form of the notice and information required in the notice are specified in the amended and restated bylaws. If it is determined that business was not properly brought before a meeting in accordance with our bylaw provisions, such business will not be conducted at the meeting.

Special Meetings of Stockholders. Special meetings of the stockholders may be called only by our board of directors pursuant to a resolution adopted by a majority of the total number of directors.

No Stockholder Action by Written Consent. Our amended and restated certificate of incorporation and amended and restated bylaws do not permit our stockholders to act by written consent. As a result, any action to be effected by our stockholders must be effected at a duly called annual or special meeting of the stockholders.

Super-Majority Stockholder Vote Required for Certain Actions. The Delaware General Corporation Law provides generally that the affirmative vote of a majority of the shares entitled to vote on any matter is required to amend a corporation’s certificate of incorporation or bylaws, unless the corporation’s certificate of incorporation or bylaws, as the case may be, requires a greater percentage. Our amended and restated certificate of incorporation requires the affirmative vote of the holders of at least 80% of our outstanding voting stock to amend or repeal any of the provisions discussed in this section of this prospectus entitled “Anti-Takeover Provisions” or to reduce the number of authorized shares of common stock or preferred stock. This 80% stockholder vote would be in addition to any separate class vote that might in the future be required pursuant to the terms of any preferred stock that might then be outstanding. In addition, an 80% vote is also required for any amendment to, or repeal of, our amended and restated bylaws by the stockholders. Our amended and restated bylaws may be amended or repealed by a simple majority vote of the board of directors.

DISCLOSURE OF COMMISSION POSITION ON INDEMNIFICATION FOR SECURITIES ACT LIABILITIES

Section 145 of the Delaware General Corporation Law (the “DGCL”) authorizes a court to award, or a corporation’s board of directors to grant, indemnity to directors and officers in terms sufficiently broad to permit such indemnification under certain circumstances for liabilities (including reimbursement for expenses incurred) arising under the Securities Act of 1933. Our amended and restated certificate of incorporation limits the liability of our officers and directors to the fullest extent permitted by the DGCL, and our amended and restated certificate of incorporation provides that we will indemnify our officers and directors to the fullest extent permitted by such law.

Insofar as indemnification for liabilities arising under the Securities Act of 1933 may be permitted to directors, officers or persons controlling the registrant pursuant to the foregoing provisions, the registrant has been informed that in the opinion of the SEC such indemnification is against public policy as expressed in the Securities Act and is therefore unenforceable.

LEGAL MATTERS

Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C., New York, New York, will pass upon the validity of the issuance of the securities offered by this prospectus.

EXPERTS

The consolidated financial statements of Cyclacel Pharmaceuticals, Inc. as of December 31, 2022 and 2021 and for each of the years in the two-year period ended December 31, 2022 included in this Prospectus have been audited by RSM US LLP, an independent registered public accounting firm, as stated in their report thereon (which report expresses an unqualified opinion and includes an explanatory paragraphs relating to substantial doubt about the Company’s ability to continue as a going concern and the restatement of the 2022 and 2021 financial statements) and included in this Prospectus and Registration Statement in reliance upon such report and upon the authority of such firm as experts in accounting and auditing.

WHERE YOU CAN FIND MORE INFORMATION

We file annual, quarterly and other periodic reports, proxy statements and other information with the SEC. You can read our SEC filings over the Internet at the SEC’s website at www.sec.gov.

Our Internet address is www.cyclacel.com. There we make available free of charge, on or through the investor relations section of our website, annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K and amendments to those reports filed pursuant to Section 13(a) or 15(d) of the Exchange Act as soon as reasonably practicable after we electronically file such material with the SEC. The information found on our website is not part of this prospectus.

The SEC maintains a website at <http://www.sec.gov> that contains reports, proxy and information statements and other information regarding issuers that file electronically with the SEC.

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CYCLACEL PHARMACEUTICALS, INC.
CONSOLIDATED BALANCE SHEETS

(In \$000s, except share, per share, and liquidation preference amounts)
(Unaudited)

	September 30, 2023	December 31, 2022
ASSETS		
Current assets:		
Cash and cash equivalents	\$ 5,944	\$ 18,345
Prepaid expenses and other current assets	5,169	6,066
Total current assets	11,113	24,411
Property and equipment, net	16	32
Right-of-use lease asset	109	142
Non-current deposits	1,259	3,465
Total assets	<u>\$ 12,497</u>	<u>\$ 28,050</u>
LIABILITIES AND STOCKHOLDERS' EQUITY		
Current liabilities:		
Accounts payable	\$ 1,571	\$ 2,561
Accrued and other current liabilities	6,577	4,950
Total current liabilities	8,148	7,511
Lease liability	52	106
Total liabilities	8,200	7,617
Redeemable common stock, \$0.001 par value;		
0 shares issued and outstanding at September 30, 2023 and 207,807 shares issued and outstanding at December 31, 2022 (Note 11)	—	4,494
Stockholders' equity:		
Preferred stock, \$0.001 par value; 5,000,000 shares authorized at September 30, 2023 and December 31, 2022;	—	—
6% Convertible Exchangeable preferred stock; 335,273 shares issued and outstanding at September 30, 2023 and December 31, 2022. Aggregate preference in liquidation of \$4,006,512 as of September 30, 2023 and December 31, 2022	—	—
Series A convertible preferred stock, \$0.001 par value; 264 shares issued and outstanding at September 30, 2023 and December 31, 2022	—	—
Series B convertible preferred stock, \$0.001 par value; 237,745 shares issued and outstanding at September 30, 2023 and December 31, 2022	—	—
Common stock, \$0.001 par value; 100,000,000 shares authorized at September 30, 2023 and December 31, 2022; 842,854 shares issued and outstanding at September 30, 2023 and 628,139 shares issued and outstanding at December 31, 2022	1	1
Additional paid-in capital	428,475	422,981
Accumulated other comprehensive loss	(1,168)	(1,316)
Accumulated deficit	(423,011)	(405,727)
Total stockholders' equity	4,297	15,939
Total liabilities and stockholders' equity	<u>\$ 12,497</u>	<u>\$ 28,050</u>

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

CYCLACEL PHARMACEUTICALS, INC.
CONSOLIDATED STATEMENTS OF OPERATIONS

(In \$000s, except share and per share amounts)
(Unaudited)

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2023	2022	2023	2022
Revenues:				
Clinical trial supply	\$ 16	\$ —	\$ 389	\$ —
Revenues	<u>16</u>	<u>\$ —</u>	<u>389</u>	<u>—</u>
Operating expenses:				
Research and development	5,236	4,413	15,637	13,572
General and administrative	1,625	2,054	4,845	5,239
Total operating expenses	<u>6,861</u>	<u>6,467</u>	<u>20,482</u>	<u>18,811</u>
Operating loss	<u>(6,845)</u>	<u>(6,467)</u>	<u>(20,093)</u>	<u>(18,811)</u>
Other income (expense):				
Foreign exchange gains (losses)	104	276	(58)	514
Interest income	50	67	243	88
Other income (expense), net	(9)	14	50	1,294
Total other income (expense), net	<u>145</u>	<u>357</u>	<u>235</u>	<u>1,896</u>
Loss before taxes	<u>(6,700)</u>	<u>(6,110)</u>	<u>(19,858)</u>	<u>(16,915)</u>
Income tax benefit	668	1,014	2,574	3,136
Net loss	<u>(6,032)</u>	<u>(5,096)</u>	<u>(17,284)</u>	<u>(13,779)</u>
Dividend on convertible exchangeable preferred shares	(50)	(50)	(151)	(151)
Net loss applicable to common shareholders	<u>\$ (6,082)</u>	<u>\$ (5,146)</u>	<u>\$ (17,435)</u>	<u>\$ (13,930)</u>
Basic and diluted earnings per common share:				
Net loss per share – basic and diluted (common shareholders)	\$ (7.22)	\$ (6.39)	\$ (20.79)	\$ (19.53)
Net loss per share – basic and diluted (redeemable common shareholders)	\$ (7.22)	\$ (5.75)	\$ (20.79)	\$ (16.48)

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

CYCLACEL PHARMACEUTICALS, INC.
CONSOLIDATED STATEMENTS OF COMPREHENSIVE LOSS

(In \$000s)
(Unaudited)

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2023	2022	2023	2022
Net loss	\$ (6,032)	\$ (5,096)	\$ (17,284)	\$ (13,779)
Translation adjustment	8,571	17,874	(2,050)	39,392
Unrealized foreign exchange gain (loss) on intercompany loans	(8,642)	(18,344)	2,198	(40,390)
Comprehensive loss	\$ (6,103)	\$ (5,566)	\$ (17,136)	\$ (14,777)

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

CYCLACEL PHARMACEUTICALS, INC.
CONSOLIDATED STATEMENTS OF STOCKHOLDERS' EQUITY

(In \$000s, except share amounts)
(Unaudited)

	Preferred Stock		Common Stock		Additional Paid-in Capital	Accumulated Other Comprehensive Loss	Accumulated Deficit	Total Stockholders' Equity
	Shares	Amount	Shares	Amount				
Balances at December 31, 2021	573,282	—	666,209	1	422,969	(748)	(384,529)	37,693
Stock-based compensation	—	—	—	—	380	—	—	380
Preferred stock dividends	—	—	—	—	(50)	—	—	(50)
Unrealized foreign exchange on intercompany loans	—	—	—	—	—	(5,878)	—	(5,878)
Translation adjustment	—	—	—	—	—	5,803	—	5,803
Loss for the period	—	—	—	—	—	—	(4,108)	(4,108)
Balances at March 31, 2022	573,282	\$ —	666,209	\$ 1	\$ 423,299	\$ (823)	\$ (388,637)	\$ 33,840
Issue of common stock on At Market issuance sales agreement, net of expenses	—	—	36,103	—	453	—	—	453
Accretion on redeemable common stock	—	—	—	—	(33)	—	—	(33)
Stock-based compensation	—	—	1,161	—	350	—	—	350
Preferred stock dividends	—	—	—	—	(50)	—	—	(50)
Unrealized foreign exchange on intercompany loans	—	—	—	—	—	(16,168)	—	(16,168)
Translation adjustment	—	—	—	—	—	15,715	—	15,715
Loss for the period	—	—	—	—	—	—	(4,575)	(4,575)
Balances at June 30, 2022	573,282	\$ —	703,473	\$ 1	\$ 424,019	\$ (1,276)	\$ (393,212)	\$ 29,532
Reclassification of redeemable common stock	—	—	(75,334)	(0)	(1,705)	—	—	(1,705)
Accretion on redeemable common stock	—	—	—	—	(102)	—	—	(102)
Stock-based compensation	—	—	—	—	388	—	—	388
Preferred stock dividends	—	—	—	—	(50)	—	—	(50)
Unrealized foreign exchange on intercompany loans	—	—	—	—	—	(18,344)	—	(18,344)
Translation adjustment	—	—	—	—	—	17,874	—	17,874
Loss for the period	—	—	—	—	—	—	(5,096)	(5,096)
Balances at September 30, 2022	573,282	\$ —	628,139	\$ 1	\$ 422,550	\$ (1,746)	\$ (398,308)	\$ 22,497
Balances at December 31, 2022	573,282	—	628,139	1	422,981	(1,316)	(405,727)	15,939
Stock-based compensation	—	—	—	—	401	—	—	401
Preferred stock dividends	—	—	—	—	(50)	—	—	(50)
Unrealized foreign exchange on intercompany loans	—	—	—	—	—	5,263	—	5,263
Translation adjustment	—	—	—	—	—	(5,171)	—	(5,171)
Loss for the period	—	—	—	—	—	—	(5,804)	(5,804)
Balances at March 31, 2023 (restated)	573,282	\$ —	628,139	\$ 1	\$ 423,332	\$ (1,224)	\$ (411,531)	\$ 10,578
Reclassification of redeemable common stock	—	—	53,213	0	1,105	—	—	1,105
Stock-based compensation	—	—	—	—	359	—	—	359
Preferred stock dividends	—	—	—	—	(50)	—	—	(50)
Unrealized foreign exchange on intercompany loans	—	—	—	—	—	5,577	—	5,577
Translation adjustment	—	—	—	—	—	(5,450)	—	(5,450)
Loss for the period	—	—	—	—	—	—	(5,448)	(5,448)
Balances at June 30, 2023 (restated)	573,282	\$ —	681,352	\$ 1	\$ 424,746	\$ (1,097)	\$ (416,979)	\$ 6,671
Reclassification of redeemable common stock	—	—	154,593	0	3,389	—	—	3,389
Stock-based compensation	—	—	6,909	—	390	—	—	390
Preferred stock dividends	—	—	—	—	(50)	—	—	(50)
Unrealized foreign exchange on intercompany loans	—	—	—	—	—	(8,642)	—	(8,642)
Translation adjustment	—	—	—	—	—	8,571	—	8,571
Loss for the period	—	—	—	—	—	—	(6,032)	(6,032)
Balances at September 30, 2023	573,282	\$ —	842,854	\$ 1	\$ 428,475	\$ (1,168)	\$ (423,011)	\$ 4,297

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

CYCLACEL PHARMACEUTICALS, INC.
CONSOLIDATED STATEMENTS OF CASH FLOWS

(In \$000s)
(Unaudited)

	Nine Months Ended September 30,	
	2023	2022
Operating activities:		
Net loss	\$ (17,284)	\$ (13,779)
Adjustments to reconcile net loss to net cash used in operating activities:		
Depreciation	23	24
Stock-based compensation	1,151	1,119
Changes in lease liability	(55)	29
Changes in operating assets and liabilities:		
Prepaid expenses and other assets	3,364	(2,816)
Accounts payable, accrued and other current liabilities	599	(235)
Net cash used in operating activities	<u>(12,202)</u>	<u>(15,658)</u>
Investing activities:		
Purchase of property, plant and equipment	(6)	(7)
Net cash used in investing activities	<u>(6)</u>	<u>(7)</u>
Financing activities:		
Proceeds, net of issuance costs, from issuing common stock and warrants	—	3,107
Payment of preferred stock dividend	(151)	(151)
Net cash (used in) provided by financing activities	<u>(151)</u>	<u>2,956</u>
Effect of exchange rate changes on cash and cash equivalents	(42)	(144)
Net (decrease) in cash and cash equivalents	(12,401)	(12,853)
Cash and cash equivalents, beginning of period	18,345	36,559
Cash and cash equivalents, end of period	<u>\$ 5,944</u>	<u>\$ 23,706</u>
Supplemental cash flow information:		
Cash received during the period for:		
Interest	\$ 243	\$ 89
Research & Development Tax Credits	\$ 4,846	\$ 3,050
Cash paid during the period for:		
Taxes	\$ 2	\$ 2
Non cash financing activities:		
Accrual of preferred stock dividends	\$ 50	\$ 50
Accretion on redeemable common stock	\$ —	\$ 135

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

CYCLACEL PHARMACEUTICALS, INC.
NOTES TO UNAUDITED CONSOLIDATED FINANCIAL STATEMENTS

1. Restatement of Prior Financial Information.

As previously summarized in our Current Report on Form 8-K filed with the SEC on November 15, 2023, during recent contract renegotiations with a contract counterparty related to the Company's 065-102 study and the related return to the Company of the original contract deposit of \$1.0 million and the subsequent preparation of the Company's financial statements for the period ended September 30, 2023, the Company identified an error in the accounting treatment of contract deposit-related invoices during the period September 2021 to November 2021. Vendor invoices totaling \$549,295 related to contractually required deposits received during September 2021 and November 2021 were incorrectly expensed to the income statement instead of being capitalized on the balance sheet as non-current deposits. The amounts were contractually required to remain on deposit until the end of the related contract. This resulted in an overstatement of operating loss of \$293,845 for the quarter ended September 30, 2021 and \$255,450 for the quarter ended December 31, 2021 and a corresponding understatement of non-current deposits in the same periods. In addition, the Company's UK research and development tax credits were consequentially overstated by \$64,000 for the quarter ended September 30, 2021 and \$55,000 for the quarter ended December 31, 2021.

On August 12, 2022, we became aware that our shelf registration statement on Form S-3 had expired on June 21, 2022. Prior to becoming aware of the expiration, but following the expiration, we sold an aggregate of 132,473 shares of our common stock at market prices for aggregate proceeds of approximately \$2,721,187. The sale of these shares were subject to potential rescission rights by certain stockholders. As a result of these rescission rights, we classified 207,807 shares (including 75,333 previously issued and outstanding shares sold for which the Company did not receive proceeds and which were reclassified to temporary equity as of September 30, 2022), with an aggregate redemption value of \$4,494,496 of our common stock as stock outside stockholders equity. In connection with the third quarter financial statement close process, the Company determined that it should have recorded 53,213 shares subject to potential rescission rights as temporary equity as of June 30, 2022 and these should have been reclassified out of temporary equity as of June 30, 2023 upon expiration of the rescission rights. The Company had recorded reclassification of these 53,213 shares sold in the second quarter of 2022, which had a redemption value of \$1,105,507 to temporary equity as of September 30, 2022. Moreover, the Company has determined that it did not properly account for the \$135,000 of aggregate fees paid in connection with the sale of those shares as a dividend to those stockholders. The \$135,000 of fees should be accounted for as accretion to the maximum redemption amount of the shares subject to potential rescission in the computation of loss per share as of June 30, 2022 and September 30, 2022 and the year ended December 31, 2022, as well as of March 31, 2023 and June 30, 2023, as is required by ASC 480-10-S99-3A(20).

The effect of the error corrections affecting the unaudited consolidated financial statements included in the Company's Quarterly Reports on Form 10-Q for the quarters ended March 31, 2023 and June 30, 2023 are as follows (in thousands, except per share amounts):

CONSOLIDATED BALANCE SHEETS	(Unaudited)		
	March 31, 2023		March 31, 2023
	As previously reported	Adjustments	As Restated
ASSETS			
Non-current deposits	\$ 2,916	\$ 549	\$ 3,465
Total assets	\$ 22,060	\$ 549	\$ 22,609
LIABILITIES AND STOCKHOLDERS' EQUITY			
Accrued and other current liabilities	\$ 4,829	\$ 119	\$ 4,948
Total current liabilities	7,338	119	7,457
Total liabilities	7,418	119	7,537
Accumulated deficit	(411,961)	430	(411,531)
Total stockholders' equity	\$ 10,148	\$ 430	\$ 10,578
Total liabilities and stockholders' equity	\$ 22,060	\$ 549	\$ 22,609

CONSOLIDATED STATEMENTS OF INCOME	(Unaudited)		
	Three Months Ended March 31,		
	2023		2023
	As previously reported	Adjustments	As Restated
Net loss applicable to common shareholders	\$ (5,854)	\$ —	\$ (5,854)
Basic and diluted earnings per common share:			
Net Loss per share - basic and diluted (common shareholders)	\$ (7.00)	\$ —	\$ (7.00)
Net Loss per share - basic and diluted (redeemable common shareholders)	\$ —	\$ (7.00)	\$ (7.00)

CONSOLIDATED STATEMENTS OF STOCKHOLDERS EQUITY	(Unaudited)		
	March 31, 2023		March 31, 2023
	As previously reported	Adjustments	As Restated
Accumulated Deficit (Balances at December 31, 2022)	\$ (406,157)	\$ 430	\$ (405,727)
Accumulated Deficit (Balances at March 31, 2023)	\$ (411,961)	\$ 430	\$ (411,531)
Total Stockholders' Equity (Balances at March 31, 2023)	\$ 10,148	\$ 430	\$ 10,578

CONSOLIDATED BALANCE SHEETS	(Unaudited)		
	June 30, 2023		June 30, 2023
	As previously reported	Adjustments	As Restated
ASSETS			
Non-current deposits	\$ 1,000	\$ 549	\$ 1,549
Total assets	\$ 16,442	\$ 549	\$ 16,991
LIABILITIES AND STOCKHOLDERS' EQUITY			
Accrued and other current liabilities	\$ 4,577	\$ 119	\$ 4,696
Total current liabilities	6,746	119	6,865
Total liabilities	6,812	119	6,931
Temporary equity	\$ 4,494	\$ (1,105)	\$ 3,389
Common Stock	1	0	1
Additional Paid-In Capital	423,641	1,105	424,746
Accumulated deficit	(417,409)	430	(416,979)
Total stockholders' equity	5,136	1,535	6,671
Total liabilities and stockholders' equity	\$ 16,442	\$ 549	\$ 16,991

CONSOLIDATED STATEMENTS OF INCOME	(Unaudited)					
	Three Months Ended June 30,			Six Months Ended June 30,		
	2023		2023	2023		2023
	As previously reported	Adjustments	As Restated	As previously reported	Adjustments	As Restated
Net loss applicable to common shareholders	\$ (5,498)	\$ —	\$ (5,498)	\$ (11,353)	\$ —	\$ (11,353)
Basic and diluted earnings per common share:						
Net Loss per share - basic and diluted (common shareholders)	\$ (6.57)	\$ —	\$ (6.57)	\$ (13.57)	\$ —	\$ (13.57)
Net Loss per share - basic and diluted (redeemable common shareholders)	\$ —	\$ (6.57)	\$ (6.57)	\$ —	\$ (13.57)	\$ (13.57)

CONSOLIDATED STATEMENTS OF STOCKHOLDERS EQUITY	(Unaudited)		
	June 30, 2023		June 30, 2023
	As previously reported	Adjustments	As Restated
Accumulated Deficit (Balances at December 31, 2022)	\$ (406,157)	\$ 430	\$ (405,727)
Accumulated Deficit (Balances at March 31, 2023)	\$ (411,961)	\$ 430	\$ (411,531)
Total Stockholders' Equity (Balances at March 31, 2023)	\$ 10,148	\$ 430	\$ 10,578
Common Stock - Issue of common stock on At Market, net of expenses	\$ —	\$ 0	\$ 0
Common Stock (Balances at June 30, 2023)	\$ 1	\$ 0	\$ 1
Additional Paid-In Capital - Issue of common stock on At Market, net of expenses	\$ —	\$ 1,105	\$ 1,105
Additional Paid-In Capital (Balances at June 30, 2023)	\$ 423,641	\$ 1,105	\$ 424,746
Accumulated Deficit (Balances at June 30, 2023)	\$ (417,409)	\$ 430	\$ (416,979)
Total Stockholders' Equity (Balances at June 30, 2023)	\$ 5,136	\$ 1,535	\$ 6,671
Common Stock No. Shares (Reclassification of redeemable common stock)	—	53,213	53,213
Common Stock No. Shares (Balance at June 30, 2023)	628,139	53,213	681,352

The correction of the errors did not change the reported net loss in 2023 or the 2022 comparative periods.

2. Company Overview

Nature of Operations

Cyclacel Pharmaceuticals, Inc. (“Cyclacel” or the “Company”) is a clinical-stage biopharmaceutical company developing innovative cancer medicines based on cell cycle, transcriptional regulation, epigenetics and mitosis control biology. Cyclacel is a pioneer company in the field of cancer cell cycle biology with a vision to improve patient healthcare by translating insights in cancer biology into medicines that can overcome resistance and ultimately increase a patient’s overall survival.

Through September 30, 2023, substantially all efforts of the Company to date have been devoted to performing research and development, conducting clinical trials, developing and acquiring intellectual property, raising capital and recruiting and training personnel.

3. Summary of Significant Accounting Policies

Basis of Presentation

The consolidated balance sheet as of September 30, 2023, the consolidated statements of operations, comprehensive loss, and stockholders’ equity for the three and nine months ended September 30, 2023 and 2022 and the consolidated statements of cash flows for the nine months ended September 30, 2023 and 2022, and all related disclosures contained in the accompanying notes, are unaudited. The consolidated balance sheet as of December 31, 2022 is derived from the audited consolidated financial statements included in the Annual Report on Form 10-K for the fiscal year ended December 31, 2022 filed with the Securities and Exchange Commission (the “SEC”) on March 8, 2023. The consolidated financial statements are presented on the basis of accounting principles that are generally accepted in the United States (“GAAP”) for interim financial information and in accordance with the rules and regulations of the SEC. Accordingly, they do not include all the information and footnotes required by GAAP for a complete set of financial statements. In the opinion of management, all adjustments, which include only normal recurring adjustments necessary to present fairly the consolidated balance sheet as of September 30, 2023, and the results of operations and, comprehensive loss for the three and nine months ended September 30, 2023, and cash flows for the nine months ended September 30, 2023, have been made. The interim results for the three and nine months ended September 30, 2023 are not necessarily indicative of the results to be expected for the year ending December 31, 2023 or for any other reporting period. The consolidated financial statements should be read in conjunction with the audited consolidated financial statements and the accompanying notes for the year ended December 31, 2022 that are included in the Company’s Annual Report on Form 10-K filed with the SEC on March 8, 2023.

Going Concern

Pursuant to the requirements of Accounting Standard Codification (“ASC”) 205-40, *Presentation of Financial Statements-Going Concern*, management is required at each reporting period to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about an entity’s ability to continue as a going concern within one year after the date that the financial statements are issued. This evaluation initially does not take into consideration the potential mitigating effect of management’s plans that have not been fully implemented as of the date the financial statements are issued. When substantial doubt exists under this methodology, management evaluates whether the mitigating effects of its plans sufficiently alleviate the substantial doubt about the Company’s ability to continue as a going concern. The mitigating effect of management’s plans, however, is only considered if both (1) it is probable that the plans will be effectively implemented within one year after the date that the financial statements are issued, and (2) it is probable that the plans, when implemented, will mitigate the relevant conditions or events that raise substantial doubt about the entity’s ability to continue as a going concern for one year after the date that these financial statements are issued. In performing its analysis, management excluded certain elements of its operating plan that cannot be considered probable. Under ASC 205-40, the future receipts of potential funding from future equity or debt issuances or by entering into partnership agreements cannot be considered probable at this time because these plans are not entirely within the Company’s control nor have they been approved by the Board of Directors as of the date of these consolidated financial statements.

Based on the Company’s current operating plan, it is anticipated that cash and cash equivalents of \$5.9 million as of September 30, 2023, will allow it to meet liquidity requirements through the end of 2023. However, the current operating plan includes discretionary expenditures, which if not incurred and taken together with the anticipated receipt of research & development tax credits of approximately \$3.1 million in the first quarter of 2024 could extend liquidity requirements into the second quarter of 2024. The Company’s history of losses, negative cash flows from operations, liquidity resources currently on hand, and its dependence on the ability to obtain additional financing to fund its operations after the current resources are exhausted, about which there can be no certainty, have resulted in the assessment that there is substantial doubt about the Company’s ability to continue as a going concern for a period of at least twelve months from the issuance date of these financial statements. While the Company has plans in place to mitigate this risk, which primarily consist of raising additional capital through a combination of public or private equity or debt financings or by entering into partnership agreements for further development of our drug candidates, there is no guarantee that it will be successful in these mitigation efforts. The accompanying consolidated financial statements have been prepared on a going concern basis, which contemplates realization of assets and the satisfaction of liabilities in the normal course of business.

Accounting Standards Adopted in the Period

In November 2021, the Financial Accounting Standards Board (“FASB”) issued ASU No. 2021-10, *Government Assistance (Topic 832): Disclosures by Business Entities about Government Assistance*. This Accounting Standards Update (“ASU”) requires business entities to make annual disclosures about transactions with a government they account for by analogizing to a grant or contribution accounting model under ASC 958-605 or based on International Accounting Standard No. 20. ASU 2021-10 became effective on January 1, 2022. The adoption of this guidance had no material effect on the Company’s Consolidated Financial Statements.

In May 2021, the FASB issued ASU 2021-04, *Earnings Per Share (Topic 260), Debt-Modifications and Extinguishments (Subtopic 470-50), Compensation-Stock Compensation (Topic 718), and Derivatives and Hedging-Contracts in Entity’s Own Equity (Subtopic 815-40)*. The new ASU addresses issuer’s accounting for certain modifications or exchanges of freestanding equity-classified written call options. This amendment became effective on January 1, 2022. The adoption of this new guidance did not have a material impact on our financial statements for any past transactions, but it could change the way that the Company accounts for subsequent amendments to its outstanding warrants, if any.

Recently Issued Accounting Pronouncements

The FASB has issued ASU 2020-04, “Reference Rate Reform (Topic 848)”. This standard provides optional expedients and exceptions for applying GAAP to contracts, hedging relationships, and other transactions affected by reference rate reform initiatives that would replace interbank offered rates, including the London Interbank Offered Rate (“LIBOR”). For example, modifications of lease contracts within the scope of ASC 842 solely for changes in reference rates would be accounted for as a continuation of the existing contracts with no reassessments of the lease classification and the discount rate. Following the issuance of ASU 2022-06, “Reference Rate Reform (Topic 848): Deferral of the Sunset Date of Topic 848”, the relief remains effective for all entities as of March 12, 2020 through December 31, 2024. The Company does not currently have any contracts affected by this guidance.

Fair Value of Financial Instruments

Financial instruments consist of cash equivalents, accounts payable and accrued liabilities. The carrying amounts of cash equivalents, accounts payable and accrued liabilities approximate their respective fair values due to the nature of the accounts, notably their short maturities.

Comprehensive Income (Loss)

All components of comprehensive income (loss), including net income (loss), are reported in the financial statements in the period in which they are recognized. Comprehensive income (loss) is defined as the change in equity during a period from transactions and other events and circumstances from non-owner sources. Net income (loss) and other comprehensive income (loss), including foreign currency translation adjustments, are reported, net of any related tax effect, to arrive at comprehensive income (loss). No taxes were recorded on items of other comprehensive income (loss). There were no reclassifications out of other comprehensive income (loss) during the nine months ended September 30, 2023 and 2022.

Revenue Recognition

When the Company enters into contracts with customers, the Company recognizes revenue using the five step-model provided in ASC 606, *Revenue from Contracts with Customers* (“ASC 606”):

- (1) identify the contract with a customer;
- (2) identify the performance obligations in the contract;
- (3) determine the transaction price;
- (4) allocate the transaction price to the performance obligations in the contract; and
- (5) recognize revenue when, or as, the Company satisfies a performance obligation.

The transaction price includes fixed payments and an estimate of variable consideration, including milestone payments. The Company determines the variable consideration to be included in the transaction price by estimating the most likely amount that will be received and then applies a constraint to reduce the consideration to the amount which is probable of being received. When applying the constraint, the Company considers:

- Whether achievement of a development milestone is highly susceptible to factors outside the entity’s influence, such as milestones involving the judgment or actions of third parties, including regulatory bodies;
- Whether the uncertainty about the achievement of the milestone is not expected to be resolved for a long period of time;
- Whether the Company can reasonably predict that a milestone will be achieved based on previous experience; and
- The complexity and inherent uncertainty underlying the achievement of the milestone.

The transaction price is allocated to each performance obligation based on the relative selling price of each performance obligation. The best estimate of the selling price is determined after considering all reasonably available information, including market data and conditions, entity-specific factors such as the cost structure of the deliverable and internal profit and pricing objectives.

The revenue allocated to each performance obligation is recognized as or when the Company satisfies the performance obligation.

The Company recognizes a contract asset, when the value of satisfied (or partially satisfied) performance obligations is in excess of the payment due to the Company, and deferred revenue when the amount of unconditional consideration is in excess of the value of satisfied (or partially satisfied) performance obligations. Once a right to receive consideration is unconditional, that amount is presented as a receivable.

Grant revenue received from organizations that are not the Company’s customers, such as charitable foundations or government agencies, is presented as a reduction against the related research and development expenses.

Leases

The Company accounts for lease contracts in accordance with ASC 842. As of September 30, 2023, the Company’s outstanding leases are classified as operating leases.

The Company recognizes an asset for the right to use an underlying leased asset for the lease term and records lease liabilities based on the present value of the Company’s obligation to make lease payments under the lease. As the Company’s leases do not indicate an implicit rate, the Company uses a best estimate of its incremental borrowing rate to discount the future lease payments. The Company estimates its incremental borrowing rate based on observable information about risk-free interest rates that are the same tenure as the lease term, adjusted for various factors, including the effects of assumed collateral, the nature of how the loan is repaid (e.g., amortizing versus bullet), and the Company’s credit risk.

The Company evaluates options included in its lease agreements to extend or terminate the lease. The Company will reflect the effects of exercising those options in the lease term when it is reasonably certain that the Company will exercise that option. In assessing whether it is reasonably certain that the Company will exercise an option, the Company considers factors such as:

- The lease payments due in any optional period;
- Penalties for failure to exercise (or not exercise) the option;
- Market factors, such as the availability of similar assets and current rental rates for such assets;
- The nature of the underlying leased asset and its importance to the Company's operations; and
- The remaining useful lives of any related leasehold improvements.

Lease expense for operating leases is recognized on a straight-line basis over the lease term. Variable lease payments, if any, are recognized in the period when the obligation to make those payments is incurred. Lease incentives received prior to lease commencement are recorded as a reduction in the right-of-use asset. Fixed lease incentives received after lease commencement reduce both the lease liability and the right-of-use asset.

The Company has elected an accounting policy to account for the lease and non-lease components as a single lease component.

4. Revenue

The Company recognized \$16,000 of revenue for the three months ended September 30, 2023, and \$389,000 of revenue for the nine months ended September 30, 2023. This revenue relates to recovery of clinical manufacturing costs associated with an investigator sponsored study managed by Cedars-Sinai Medical Center. There were no revenues recognized for the comparative periods in 2022.

5. Net Loss per Common Share

The Company calculates net loss per common share in accordance with ASC 260 "Earnings Per Share" ("ASC 260"). Basic and diluted net loss per common share was determined by dividing net loss applicable to common stockholders by the weighted average number of shares of common stock outstanding during the period. During 2022 and 2023, the Company calculated loss per share using the two-class method. The two-class method is an allocation formula that determines loss per share for each share of common stock and redeemable common stock (see note 11), a participating security, according to dividends declared and participation rights in undistributed earnings.

	Three Months Ended March 31, 2023	
	As restated (see Note 1)	
Numerator:		
Net loss	\$	(5,804)
Dividend on convertible exchangeable preferred shares		(50)
Net loss attributable to common shareholders	\$	(5,854)
Deemed dividend on accretion of redeemable common stock		—
Remaining undistributed loss		(5,854)

	Three Months Ended March 31, 2023	
	Common Shareholders	Redeemable Common Shareholders
Allocation of undistributed loss	\$ (4,399)	\$ (1,455)
Deemed dividend on accretion of redeemable common stock		—
Net loss attributable to common shareholders	(4,399)	(1,455)
Denominator:		
Weighted-average number of common shares used in loss per share – basic and diluted	628,139	207,807
Loss per share - basic and diluted	\$ (7.00)	\$ (7.00)
Distributed earnings	—	—
Undistributed loss	(7.00)	(7.00)
Net loss per share	\$ (7.00)	\$ (7.00)

Three And Six Months Ended June 30, 2023

	Three Months	Six Months
	As restated (see Note 1)	As restated (see Note 1)
Numerator:		
Net loss	\$ (5,448)	\$ (11,252)
Dividend on convertible exchangeable preferred shares	(50)	(101)
Net loss attributable to common shareholders	\$ (5,498)	\$ (11,353)
Deemed dividend on accretion of redeemable common stock	—	—
Remaining undistributed loss	(5,498)	(11,353)

	Three Months Ended June 30, 2023		Six Months Ended June 30, 2023	
	Common Shareholders	Redeemable Common Shareholders	Common Shareholders	Redeemable Common Shareholders
Allocation of undistributed loss	\$ (4,144)	\$ (1,354)	\$ (8,544)	\$ (2,809)
Deemed dividend on accretion of redeemable common stock		—		—
Net loss attributable to common shareholders	(4,144)	(1,354)	(8,544)	(2,809)
Denominator:				
Weighted-average number of common shares used in loss per share – basic and diluted	630,754	206,032	629,454	206,914
Loss per share - basic and diluted	\$ (6.57)	\$ (6.57)	\$ (13.57)	\$ (13.57)
Distributed earnings	—	—	—	—
Undistributed loss	(6.57)	(6.57)	(13.57)	(13.57)
Net loss per share	\$ (6.57)	\$ (6.57)	\$ (13.57)	\$ (13.57)

Three And Nine Months Ended September 30, 2023

	<u>Three Months</u>	<u>Nine Months</u>
Numerator:		
Net loss	\$ (6,032)	\$ (17,284)
Dividend on convertible exchangeable preferred shares	(50)	(151)
Net loss attributable to common shareholders	\$ (6,082)	\$ (17,435)
Deemed dividend on accretion of redeemable common stock	—	—
Remaining undistributed loss	(6,082)	(17,435)

	<u>Three Months Ended September 30, 2023</u>		<u>Nine Months Ended September 30, 2023</u>	
	Common Shareholders	Redeemable Common Shareholders	Common Shareholders	Redeemable Common Shareholders
Allocation of undistributed loss	\$ (5,726)	\$ (356)	\$ (14,237)	\$ (3,198)
Deemed dividend on accretion of redeemable common stock	—	—	—	—
Net loss attributable to common shareholders	(5,726)	(356)	(14,237)	(3,198)
Denominator:				
Weighted-average number of common shares used in loss per share – basic and diluted	793,496	49,359	684,736	153,819
Loss per share - basic and diluted	\$ (7.22)	\$ (7.22)	\$ (20.79)	\$ (20.79)
Distributed earnings	—	—	—	—
Undistributed loss	(7.22)	(7.22)	(20.79)	(20.79)
Net loss per share	\$ (7.22)	\$ (7.22)	\$ (20.79)	\$ (20.79)

Three And Nine Months Ended September 30, 2022

	<u>Three Months</u>	<u>Nine Months</u>
Numerator:		
Net loss	\$ (5,096)	\$ (13,779)
Dividend on convertible exchangeable preferred shares	(50)	(151)
Net loss attributable to common shareholders	\$ (5,146)	\$ (13,930)
Deemed dividend on accretion of redeemable common stock	(102)	(135)
Remaining undistributed loss	(5,248)	(14,065)

	<u>Three Months Ended September 30, 2022</u>		<u>Nine Months Ended September 30, 2022</u>	
	Common Shareholders	Redeemable Common Shareholders	Common Shareholders	Redeemable Common Shareholders
Allocation of undistributed loss	\$ (4,235)	\$ (1,013)	\$ (13,040)	\$ (1,025)
Deemed dividend on accretion of redeemable common stock		102	—	135
Net loss attributable to common shareholders	(4,235)	(911)	(13,040)	(890)
Denominator:				
Weighted-average number of common shares used in loss per share – basic and diluted	662,530	158,448	667,554	53,988
Loss per share - basic and diluted	\$ (6.39)	\$ (5.75)	\$ (19.53)	\$ (16.48)
Distributed earnings	—	0.64	—	2.50
Undistributed loss	(6.39)	(6.39)	(19.53)	(18.98)
Net loss per share	\$ (6.39)	\$ (5.75)	\$ (19.53)	\$ (16.48)

The following potentially dilutive securities have not been included in the computation of diluted net loss per share for the three months ended September 30, 2023 and 2022, as the result would be anti-dilutive:

	September 30, 2023	September 30, 2022
Stock options	145,446	107,872
Restricted Stock Units	34,798	9,177
6% convertible exchangeable preferred stock	6	6
Series A preferred stock	440	440
Series B preferred stock	79,248	79,248
Common stock warrants	215,625	215,625
Total shares excluded from calculation	<u>475,563</u>	<u>412,368</u>

6. Prepaid Expenses and Other Current Assets

Prepaid expenses and other current assets consisted of the following (in \$000s):

	September 30, 2023	December 31, 2022
Research and development tax credit receivable	\$ 2,527	\$ 4,664
Prepayments and VAT receivable	692	976
Other current assets	1,950	426
	<u>\$ 5,169</u>	<u>\$ 6,066</u>

Other current assets as of September 30, 2023 include reclassification of approximately \$1.6 million of clinical trial deposits previously recognized as long term but now expected to be consumed within one year as of September 30, 2023.

7. Non-Current Assets

As of September 30, 2023, the Company had non-current assets of \$1.3 million, which is primarily comprised of clinical trial deposits held by a contract research organization in relation to the Company's Phase 1/2 clinical trials.

8. Accrued and Other Liabilities

Accrued and other current liabilities consisted of the following (in \$000s):

	September 30, 2023	December 31, 2022
Accrued research and development	\$ 5,866	\$ 3,611
Accrued legal and professional fees	355	333
Other current liabilities	356	1,006
	<u>\$ 6,577</u>	<u>\$ 4,950</u>

Other current liabilities for the year ended December 31, 2022 were largely attributed to accrued payroll costs.

9. Leases

The Company currently has an operating lease liability relating to its facilities in Berkeley Heights, New Jersey.

For the nine months ended September 30, 2023 and 2022, the Company recognized operating lease expenses of \$55,982 and \$46,699 respectively, including \$7,902 in 2023 relating to a short term lease for offices in Dundee, Scotland. Cash payments made during the nine months ended September 30, 2023 and 2022 totaled \$55,245 and \$46,489, respectively, and were presented within cash outflows from operating activities. The remaining lease term as of September 30, 2023 is approximately 1.8 years for the Berkeley Heights facility. The discount rate used by the Company in determining the lease liability was 12%.

Remaining lease payments for both facilities are as follows (in \$000s):

2023	\$	19
2024		66
2025		38
Thereafter		—
	<u>\$</u>	<u>123</u>

10. Stock Based Compensation

ASC 718 requires compensation expense associated with share-based awards to be recognized over the requisite service period which, for the Company, is the period between the grant date and the date the award vests or becomes exercisable. The Company recognizes all share-based awards under the straight-line attribution method, assuming that all granted awards will vest. Forfeitures are recognized in the periods when they occur.

Stock based compensation has been reported within expense line items on the consolidated statement of operations for the three and nine months ended September 30, 2023 and 2022 as shown in the following table (in \$000s):

	Three Months Ended		Nine Months Ended	
	September 30,		September 30,	
	2023	2022	2023	2022
General and administrative	\$ 279	\$ 255	\$ 801	\$ 724
Research and development	111	\$ 134	\$ 350	\$ 396
Stock-based compensation costs before income taxes	<u>\$ 390</u>	<u>\$ 389</u>	<u>\$ 1,151</u>	<u>\$ 1,119</u>

2018 Plan

In May 2018, the Company's stockholders approved the 2018 Equity Incentive Plan (the "2018 Plan"), under which Cyclacel may make equity incentive grants to its officers, employees, directors and consultants. The 2018 Plan replaced the 2015 Equity Incentive Plan (the "2015 Plan").

The 2018 Plan allows for various types of award grants, including stock options and restricted stock units.

On June 14, 2022, the Company's stockholders approved an amendment to the 2018 Plan to increase the number of shares of common stock available for grant under the 2018 Plan by 33,333 shares. On June 13, 2023, the Company's stockholders approved an amendment to the 2018 Plan to increase the number of shares of common stock available for grant under the 2018 Plan by an additional 60,000 shares. As of September 30, 2023, the Company has reserved 22,466 shares of the Company's common stock under the 2018 Plan for future issuances. Stock option awards granted under the Company's equity incentive plans have a maximum life of 10 years and generally vest over a one to four-year period from the date of grant.

2020 Inducement Equity Incentive Plan

In October 2020, the Inducement Equity Incentive Plan (the "Inducement Plan"), became effective. Under the Inducement Plan, Cyclacel may make equity incentive grants to new senior level employees (persons to whom the Company may issue securities without stockholder approval). The Inducement Plan allows for the issuance of up to 13,333 shares of the Company's common stock (or the equivalent of such number). As of September 30, 2023, 8,000 shares under the Inducement Plan have been issued, leaving 5,333 shares in reserve.

Option Grants and Exercises

There were 43,342 options granted during the nine months ended September 30, 2023. These options had a grant date fair value ranging between \$6.30-\$10.95 per option. There were 34,822 options granted during the nine months ended September 30, 2022. These options had a grant date fair value ranging between \$12.45-\$43.50 per option.

Of the options granted during the nine months ended September 30, 2023, 25,633 shall vest on the third anniversary of their date of grant, or earlier if either of the certain performance conditions are met relating to enrollment goals for various clinical studies. For purposes of the below calculations, the Company has assumed that these awards will vest after three years as satisfaction of the performance conditions is not probable at this time.

The fair value of the stock options granted is calculated using the Black-Scholes option-pricing model as prescribed by ASC 718 using the following assumptions:

	Nine months ended September 30, 2023	Nine months ended September 30, 2022
Expected term (years)	5-6	5-6
Risk free interest rate	3.660% – 4.050%	1.370% – 3.605%
Volatility	89% – 92%	86% – 93%
Expected dividend yield over expected term	0.00%	0.00%

There were no stock options exercised during each of the nine months ended September 30, 2023 and 2022, respectively. The Company does not expect to be able to benefit from the deduction for stock option exercises that may occur because the company has tax loss carryforwards from prior periods that would be expected to offset any potential taxable income.

(i) Outstanding Options

A summary of the share option activity and related information is as follows:

	Number of Options Outstanding	Weighted Average Exercise Price Per Share	Weighted Average Remaining Contractual Term (Years)	Aggregate Intrinsic Value (\$000)
Options outstanding at December 31, 2022	107,373	\$ 87.70	8.34	\$ —
Granted	43,342	\$ 8.82	—	—
Cancelled/forfeited	(5,269)	\$ 232.05	—	—
Options outstanding at September 30, 2023	145,446	\$ 58.97	8.21	\$ —
Unvested at September 30, 2023	66,295	\$ 23.86	9.20	\$ —
Vested and exercisable at September 30, 2023	79,151	\$ 88.38	7.38	\$ —

Restricted Stock Units

The Company issued 25,621 restricted stock units during the nine months ended September 30, 2023.

The 8,488 restricted stock units issued in June 2023 vest on the first anniversary of the date of grant. Each of these restricted stock units were valued at \$8.84 at the date of grant, which was equivalent to the market price of a share of the Company's common stock on that date.

The 17,133 restricted stock units issued in January 2023 vest on the third anniversary of their date of grant, or earlier if certain defined clinical trial related performance targets are met. A three-year vesting assumption was applied to these restricted stock units as satisfaction of the performance conditions is not probable at this time. Each restricted stock unit was valued at \$13.50 at the date of grant, which was equivalent to the market price of a share of the Company's common stock on that date.

The Company issued 7,911 restricted stock units during the year ended December 31, 2022. These restricted stock units vest over a period of one year for awards granted to directors and three years for grants to employees. Each restricted stock unit was valued at \$16.65 based on their fair value at the date of grant, which is equivalent to the market price of a share of the Company's common stock.

Summarized information for restricted stock units as of September 30, 2023 is as follows:

	Restricted Stock Units	Weighted Average Grant Date Value Per Share	Weighted Average Remaining Term
Restricted Stock Units outstanding at September 30, 2023	34,798	\$ 16.24	9.21 years
Unvested at September 30, 2023	26,728	\$ 12.31	9.45 years
Vested and exercisable at September 30, 2023	8,070	\$ 29.24	8.42 years

11. Stockholders Equity

(i) August 2021 Controlled Equity Offering Sales Agreement

On August 12, 2021, the Company entered into a Controlled Equity Offering Sales Agreement (the "Sales Agreement") with Cantor Fitzgerald & Co. ("Cantor"), pursuant to which the Company could issue and sell, from time to time, shares of its common stock having an aggregate offering price of up to \$10.0 million through Cantor as the sales agent. Cantor could sell the Company's common stock by any method permitted by law deemed to be an "at the market offering" as defined in Rule 415(a)(4) of the Securities Act.

On August 12, 2022, the Company became aware that the shelf registration statement on Form S-3 (file number 333-231923) (the "Registration Statement") associated with this Sales Agreement had expired on June 21, 2022. Prior to becoming aware of the expiration, the Company sold an aggregate of 132,473 shares of its common stock at the market price, following the expiration of the Registration Statement and through August 12, 2022, for aggregate proceeds of approximately \$2,721,187. There was no sale of shares after August 12, 2022. The sale of these shares may have been subject to potential rescission rights by certain stockholders. As a result of these potential rescission rights, the Company reclassified 207,807 shares (including 75,333 shares sold for which the Company did not receive any proceeds) with an aggregate redemption value of \$4,494,496, of its common stock as outside stockholders' equity. These shares have been treated as issued and outstanding for financial reporting purposes. The reclassification period for these shares has now lapsed and the shares have been reclassified back to permanent equity. As of September 30, 2023, there have been no claims or demands to exercise such rights.

On August 15, 2022, due to expiry of the Registration Statement, the Sales Agreement was mutually terminated. Since the start of the agreement on August 12, 2021, a total of 218,738 shares, for gross proceeds of approximately \$7.6 million, had been sold pursuant to the Sales Agreement.

(ii) Warrants

December 2020 Warrants

As of September 30, 2023, warrants to purchase 44,657 shares of common stock issued pursuant to a securities purchase agreement in a December 2020 financing transaction remained outstanding. Each warrant shall be exercisable beginning on the 12-month anniversary of the date of issuance for a period of five years after the date of issuance, at an exercise price of \$61.95 per warrant share. The exercise price of the warrants will be subject to adjustment in the event of any stock dividends and splits, reverse stock split, recapitalization, reorganization or similar transaction, as described in the warrants. The warrants may be exercised on a "cashless" basis.

There were no exercises of these warrants during the nine months ended September 30, 2023 or September 30, 2022.

April 2020 Warrants

As of September 30, 2023, 146,000 warrants issued pursuant to a securities purchase agreement in connection with an April 2020 equity financing remained outstanding, each with an exercise price of \$75.00. The common warrants are immediately exercisable and will expire on the fifth anniversary of the original issuance date. The exercise price and number of shares of common stock issuable upon exercise is subject to appropriate adjustment in the event of stock dividends, stock splits, reorganizations or similar events affecting the Company's common stock. The common warrants were issued separately from the common stock and were eligible for transfer immediately after issuance. A common warrant to purchase one share of common stock was issued for every share of common stock purchased in this offering.

The common warrants are exercisable, at the option of each holder, in whole or in part, by delivering to the Company a duly executed exercise notice accompanied by payment in full for the number of shares of the Company's common stock purchased upon such exercise (except in the case of a cashless exercise). A holder (together with its affiliates) may not exercise any portion of the common warrant to the extent that the holder would own more than 4.99% of the outstanding common stock immediately after exercise, except that upon at least 61 days prior notice from the holder to the Company, the holder may increase the amount of ownership of outstanding stock after exercising the holder's common warrants up to 9.99% of the number of shares of the Company's common stock outstanding immediately after giving effect to the exercise, as such percentage ownership is determined in accordance with the terms of the common warrants. No fractional shares of common stock will be issued in connection with the exercise of a common warrant. In lieu of fractional shares, the Company will round down to the next whole share.

There were no exercises of these warrants during the nine months ended September 30, 2023 or September 30, 2022.

July 2017 Warrants

As of September 30, 2023, 24,968 warrants issued in connection with the July 2017 underwritten public offering remained outstanding, each with an exercise price of \$600.00. All such warrants were issued in connection with the July 2017 underwritten public offering and are immediately exercisable. The warrants expire in 2024. Subject to limited exceptions, a holder of warrants will not have the right to exercise any portion of its warrants if the holder (together with such holder's affiliates, and any persons acting as a group together with such holder or any of such holder's affiliates) would beneficially own a number of shares of common stock in excess of 4.99% (or, at the election of the purchaser, 9.99%) of the shares of our Common Stock then outstanding after giving effect to such exercise.

The exercise price and the number of shares issuable upon exercise of the warrants is subject to appropriate adjustment in the event of recapitalization events, stock dividends, stock splits, stock combinations, reclassifications, reorganizations or similar events affecting the Company's common stock. The warrant holders must pay the exercise price in cash upon exercise of the warrants, unless such warrant holders are utilizing the cashless exercise provision of the warrants. On the expiration date, unexercised warrants will automatically be exercised via the "cashless" exercise provision.

Prior to the exercise of any warrants to purchase common stock, holders of the warrants will not have any of the rights of holders of the common stock purchasable upon exercise, including the right to vote, except as set forth therein.

There were no exercises of these warrants during the nine months ended September 30, 2023 or September 30, 2022.

Series B Preferred Stock

237,745 shares of the Company's Series B Preferred Stock were issued in a December 2020 Securities Purchase Agreement. Each share of Series B Preferred Stock shall initially be convertible into one third (1/3) of one share of Common Stock, subject to adjustment in accordance with the Certificate of Designation. As of September 30, 2023, 237,745 shares of the Series B Preferred Stock remained issued and outstanding.

Holders of Series B Preferred Stock are entitled to receive dividends on shares of Series B Preferred Stock equal, on an as-if-converted-to-common-stock basis, and in the same form as dividends actually paid on shares of the Company's common stock. Except as otherwise required by law, the Series B Preferred Stock does not have voting rights. However, as long as any shares of Series B Preferred Stock are outstanding, the Company will not, without the affirmative vote of the holders of a majority of the then outstanding shares of the Series B Preferred Stock, (a) alter or change adversely the powers, preferences or rights given to the Series B Preferred Stock, (b) alter or amend the Certificate of Designation, (c) amend its certificate of incorporation or other charter documents in any manner that adversely affects any rights of the holders of Series B Preferred Stock, (d) increase the number of authorized shares of Series B Preferred Stock, (e) pay certain dividends or (f) enter into any agreement with respect to any of the foregoing. The Series B Preferred Stock does not have a preference upon any liquidation, dissolution or winding-up of the Company. The Series B Preferred Stock may be converted into shares of common stock if and solely to the extent that such conversion would not result in the holder beneficially owning in excess of 9.99% of then-outstanding common stock or aggregate voting power of the Company and any portion in excess of such limitation will remain outstanding as Series B Preferred Stock.

Series A Preferred Stock

8,872 shares of the Company's Series A Preferred Stock were issued in the July 2017 underwritten public offering. During the year ended December 31, 2017, 8,608 shares of the Series A Preferred Stock were converted into 14,347 shares of common stock. As of September 30, 2023, 264 shares of the Series A Preferred Stock remained issued and outstanding.

Each share of Series A Preferred Stock is convertible at any time at the option of the holder thereof, into a number of shares of common stock determined by dividing \$1,000 by the initial conversion price of \$600.00 per share, subject to a 4.99% blocker provision, or, upon election by a holder prior to the issuance of shares of Series A Preferred Stock, 9.99%, and is subject to adjustment for stock splits, stock dividends, distributions, subdivisions and combinations. The 264 shares of Series A Preferred Stock issued and outstanding at September 30, 2023 are convertible into 440 shares of common stock.

In the event of a liquidation, the holders of shares of the Series A Preferred Stock shall be permitted to participate on an as-converted-to-common-stock basis in any distribution of assets of the Company. The Company shall not pay any dividends on shares of common stock (other than dividends in the form of common stock) unless and until such time as dividends on each share of Series A Preferred Stock are paid on an as-converted basis. There is no restriction on the Company's ability to repurchase shares of Series A Preferred Stock while there is any arrearage in the payment of dividends on such shares, and there are no sinking fund provisions applicable to the Series A Preferred Stock.

Subject to certain conditions, at any time following the issuance of the Series A Preferred Stock, the Company has the right to cause each holder of the Series A Preferred Stock to convert all or part of such holder's Series A Preferred Stock in the event that (i) the volume weighted average price of our common stock for 30 consecutive trading days (the "Measurement Period") exceeds 300% of the initial conversion price of the Series A Preferred Stock (subject to adjustment for forward and reverse stock splits, recapitalizations, stock dividends and similar transactions), (ii) the daily trading volume on each Trading Day during such Measurement Period exceeds \$500,000 per trading day and (iii) the holder is not in possession of any information that constitutes or might constitute, material non-public information which was provided by the Company. The right to cause each holder of the Series A Preferred Stock to convert all or part of such holder's Series A Preferred Stock shall be exercised ratably among the holders of the then outstanding preferred stock.

The Series A Preferred Stock has no maturity date, will carry the same dividend rights as the common stock, and with certain exceptions, contains no voting rights. In the event of any liquidation or dissolution of the Company, the Series A Preferred Stock ranks senior to the common stock in the distribution of assets, to the extent legally available for distribution.

6% Convertible Exchangeable Preferred Stock

As of September 30, 2023, there were 335,273 shares of the Company's 6% Convertible Exchangeable Preferred Stock (the "6% Preferred Stock") issued and outstanding at an issue price of \$10.00 per share. Dividends on the 6% Preferred Stock are cumulative from the date of original issuance at the annual rate of 6% of the liquidation preference of the 6% Preferred Stock, payable quarterly on the first day of February, May, August and November, commencing February 1, 2005. Any dividends must be declared by the Company's board of directors and must come from funds that are legally available for dividend payments. The 6% Preferred Stock has a liquidation preference of \$10.00 per share, plus accrued and unpaid dividends. As of September 30, 2023, accrued and unpaid dividends amounted to \$50,291.

The Company may automatically convert the 6% Preferred Stock into common stock if the per share closing price of the Company's common stock has exceeded \$888,300, which is 150% of the conversion price of the 6% Preferred Stock, for at least 20 trading days during any 30 day trading period, ending within five trading days prior to notice of automatic conversion.

The 6% Preferred Stock has no maturity date and no voting rights prior to conversion into common stock, except under limited circumstances.

The Company may, at its option, redeem the 6% Preferred Stock in whole or in part, out of funds legally available at the redemption price of \$10.00 per share.

The 6% Preferred Stock is exchangeable, in whole but not in part, at the option of the Company on any dividend payment date beginning on November 1, 2005 (the "Exchange Date") for the Company's 6% Convertible Subordinated Debentures (the "Debentures") at the rate of \$10.00 principal amount of Debentures for each share of 6% Preferred Stock. The Debentures, if issued, will mature 25 years after the Exchange Date and have substantially similar terms to those of the 6% Preferred Stock. No such exchanges have taken place to date.

12. Subsequent Events

Dividends on 6% Preferred Stock

On September 6, 2023, the board of directors declared a quarterly cash dividend in the amount of \$0.15 per share on the Company's 6% Preferred Stock. The cash dividend was paid on November 1, 2023 to the holders of record of the 6% Preferred Stock as of the close of business on October 20, 2023.

Reverse Stock Split

On December 15, 2023, the Company filed a certificate of amendment to its amended and restated certificate of incorporation with the Secretary of State of the State of Delaware to effect a 1-for-15 reverse stock split of the Company's shares of common stock. The reverse stock split, which was unanimously approved by the Company's board of directors, was approved by the Company's stockholders at a special meeting of stockholders held on December 8, 2023.

As a result of the reverse stock split, every fifteen (15) shares of the Company's outstanding common stock before effectiveness of the reverse stock split was combined and reclassified into one (1) share of common stock. Proportionate voting rights and other rights of common stock holders were not affected by the reverse stock split. Stockholders who would otherwise hold a fractional share of common stock were entitled to receive payment in cash in lieu of any such resulting fractional shares of common stock as the post-reverse split amounts of common stock were rounded down to the nearest full share. Such cash payment in lieu of a fractional share of common stock was calculated by multiplying such fractional interest in one share of common stock by the closing trading price of the Company's common stock on the trading day immediately preceding the effective date of the reverse stock split, and rounded to the nearest cent. No fractional shares were issued in connection with the reverse stock split.

All share and per share figures in these unaudited consolidated financial statements have been retrospectively restated to give effect to the reverse stock split.

Stockholders and the Board of Directors
of Cyclacel Pharmaceuticals, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Cyclacel Pharmaceuticals, Inc. and its subsidiaries (the Company) as of December 31, 2022 and 2021, the related consolidated statements of operations (loss), comprehensive loss, stockholders' equity and cash flows for the years then ended, and the related notes to the consolidated financial statements (collectively, 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 the years then ended, in conformity with accounting principles generally accepted in the United States of America.

Restatement of 2022 and 2021 Financial Statements

As discussed in Note 1 to the consolidated financial statements, the 2022 and 2021 financial statements have been restated to correct misstatements.

Substantial Doubt About the Company's Ability to Continue as a Going Concern

The accompanying consolidated 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 does not currently have sufficient funds to complete development and commercialization if they are unable to raise additional capital for operations. This raises substantial doubt about the Company's 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 U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits 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 matters communicated below are matters arising from the current period audit of the financial statements that were communicated or required to be communicated to the audit committee and that: (1) relate to accounts or disclosures that are material to the financial statements and (2) 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 matters below, providing separate opinions on the critical audit matters or on the accounts or disclosures to which they relate.

Clinical Trial Accrual and Expenses

As discussed in Notes 3 and 9 of the consolidated financial statements, the Company's total accrued expenses for research and development were \$3.6 million at December 31, 2022, which included the estimated obligation for pre-clinical and clinical trial expenses incurred as of December 31, 2022, but not paid as of that date. The Company's clinical trial expenses are based on the Company's estimates of the level of services performed each period pursuant to agreements with third parties that conduct research and development on the Company's behalf, which results in an accrual or prepaid at period end.

We identified the Company's accrued clinical trial expenses as a critical audit matter because auditing the application of significant management judgment over the estimate of services provided but not yet invoiced required significant audit effort and a high degree of auditor judgment and subjectivity to evaluate the audit evidence obtained. Specifically, the amount of accrued clinical trial expenses recognized is dependent on the availability of information to make the estimate, including information from multiple sources, the level of effort expended as of the balance sheet date and the associated cost of such services. Additionally, due to the timing of invoicing received from third parties, the actual amounts incurred are not typically known on the date the Company issues its financial statements.

Our audit procedures to evaluate the Company's estimate of services incurred as of period end pursuant to its clinical trials included, among others:

- We tested the accuracy and completeness of the underlying data used in the estimates and evaluated the significant assumptions stated above that are used by management to estimate the recorded amounts.
- To assess the reasonableness of the significant assumptions, we obtained information regarding the nature and extent of progress of clinical trials from the Company's research and development personnel that oversee the clinical trials and obtained information directly from third parties which indicated the third parties' estimate of costs incurred to date.
- To evaluate the completeness and valuation of the accrual clinical trial expenses, we compared invoices received by the Company subsequent to December 31, 2022, to the amounts recognized by the Company as of that date.
- We inspected the Company's contracts with third parties and any pending change orders to assess the impact to the amounts recorded.

/s/ RSM US LLP

We have served as the Company's auditor since 2013.

New York, New York
March 8, 2023, except for Notes 1, 15 and 17, as to which
the date is November 28, 2023 and except for the effect of the
reverse stock split as discussed in Note 18, as to which the
date is February 7, 2024

**CYCLACEL PHARMACEUTICALS, INC.
CONSOLIDATED BALANCE SHEETS**

(In thousands, except share and per share amounts)

	December 31, 2022	December 31, 2021
	As restated (see Note 1)	As restated (see Note 1)
ASSETS		
Current assets:		
Cash and cash equivalents	\$ 18,345	\$ 36,559
Prepaid expenses and other current assets	6,066	4,383
Total current assets	24,411	40,942
Property and equipment, net	32	64
Right-of-use lease asset	142	30
Non-current deposits	3,465	2,100
Total assets	<u>\$ 28,050</u>	<u>\$ 43,136</u>
LIABILITIES AND STOCKHOLDERS' EQUITY		
Current liabilities:		
Accounts payable	\$ 2,561	\$ 2,117
Accrued and other current liabilities	4,950	3,296
Total current liabilities	7,511	5,413
Lease liability	106	30
Total liabilities	7,617	5,443
Redeemable common stock, \$0.001 par value; 2,070,807 and 0 shares issued and outstanding at December 31, 2022 and December 31, 2021 (Note 11).		
	4,494	—
Stockholders' equity:		
Preferred stock, \$0.001 par value; 5,000,000 shares authorized at December 31, 2022 and December 31, 2021;		
6% Convertible Exchangeable preferred stock; 335,273 shares issued and outstanding at December 31, 2022 and December 31, 2021. Aggregate preference in liquidation of \$4,006,512 as of December 31, 2022 and December 31, 2021.		
	—	—
Series A convertible preferred stock, \$0.001 par value; 264 shares issued and outstanding at December 31, 2022 and December 31, 2021.		
	—	—
Series B convertible preferred stock, \$0.001 par value; 237,745 shares issued and outstanding at December 31, 2022 and December 31, 2021.		
	—	—
Common stock, \$0.001 par value; 100,000,000 shares authorized at December 31, 2022 and December 31, 2021; 628,139 and 666,209 shares issued and outstanding at December 31, 2022 and December 31, 2021		
	1	1
Additional paid-in capital	422,981	422,969
Accumulated other comprehensive loss	(1,316)	(748)
Accumulated deficit	(405,727)	(384,529)
Total stockholders' equity	15,939	37,693
Total liabilities and stockholders' equity	<u>\$ 28,050</u>	<u>\$ 43,136</u>

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

CYCLACEL PHARMACEUTICALS, INC.
CONSOLIDATED STATEMENTS OF OPERATIONS (LOSS)

(In thousands, except share and per share amounts)

	Year Ended December 31,	
	2022	2021
	As restated (see Note 1)	As restated (see Note 1)
Revenues	\$ —	\$ —
Operating expenses:		
Research and development	20,274	14,928
General and administrative	7,382	7,461
Total operating expenses	<u>27,656</u>	<u>22,389</u>
Operating loss	(27,656)	(22,389)
Other income (expense):		
Foreign exchange gains (losses)	233	44
Interest income	210	16
Other income, net	1,298	144
Total other income, net	<u>1,741</u>	<u>204</u>
Loss before taxes	(25,915)	(22,185)
Income tax benefit	4,717	3,728
Net loss	<u>(21,198)</u>	<u>(18,457)</u>
Dividend on convertible exchangeable preferred shares	(201)	(201)
Net loss applicable to common shareholders	<u>\$ (21,399)</u>	<u>\$ (18,658)</u>
Basic and diluted earnings per common share:		
Net Loss per share - basic and diluted (common shareholders)	\$ (28.70)	\$ (31.35)
Net Loss per share - basic and diluted (redeemable common shareholders)	\$ (27.24)	\$ —

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

CYCLACEL PHARMACEUTICALS, INC.
CONSOLIDATED STATEMENTS OF COMPREHENSIVE LOSS

(In thousands)

	Year Ended December 31,	
	2022	2021 As restated (see Note 1)
Net loss	\$ (21,198)	\$ (18,457)
Translation adjustment	20,598	2,123
Unrealized foreign exchange gain (loss) on intercompany loans	(21,166)	(2,125)
Comprehensive loss	<u>\$ (21,766)</u>	<u>\$ (18,459)</u>

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

CYCLACEL PHARMACEUTICALS, INC.
CONSOLIDATED STATEMENTS OF STOCKHOLDERS' EQUITY

(In thousands, except share amounts)

	Preferred Stock		Common Stock		Additional Paid-in Capital	Accumulated Other Comprehensive Loss	Accumulated Deficit	Total Stockholders' Equity
	Shares	Amount	Shares	Amount				
Balances at December 31, 2020	573,282	\$ —	416,460	\$ 1	\$ 400,076	\$ (746)	\$ (366,072)	\$ 33,259
Issue of common stock, preferred stock and associated warrants on underwritten offering, net of expenses	—	—	138,548	0	13,502	—	—	13,502
Issue of common stock in At Market Issuance sales agreement, net of expenses	—	—	50,161	0	3,870	—	—	3,870
Warrant & stock option exercises	—	—	61,040	0	4,565	—	—	4,565
Stock-based compensation	—	—	—	—	1,157	—	—	1,157
Preferred stock dividends	—	—	—	—	(201)	—	—	(201)
Unrealized foreign exchange on intercompany loans	—	—	—	—	—	(2,125)	—	(2,125)
Translation adjustment	—	—	—	—	—	2,123	—	2,123
Loss for the period (restated)	—	—	—	—	—	—	(18,457)	(18,457)
Balances at December 31, 2021 (restated)	573,282	\$ —	666,209	\$ 1	\$ 422,969	\$ (748)	\$ (384,529)	\$ 37,693
Issue of common stock in At Market Issuance sales agreement, net of expenses	—	—	36,103	0	478	—	—	478
Reclassification of redeemable common stock	—	—	(75,334)	(0)	(1,636)	—	—	(1,636)
Accretion on redeemable common stock	—	—	—	—	(135)	—	—	(135)
Stock-based compensation	—	—	1,161	—	1,506	—	—	1,506
Preferred stock dividends	—	—	—	—	(201)	—	—	(201)
Unrealized foreign exchange on intercompany loans	—	—	—	—	—	(21,166)	—	(21,166)
Translation adjustment	—	—	—	—	—	20,598	—	20,598
Loss for the period	—	—	—	—	—	—	(21,198)	(21,198)
Balances at December 31, 2022 (restated)	573,282	\$ —	628,139	\$ 1	\$ 422,981	\$ (1,316)	\$ (405,727)	\$ 15,939

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

CYCLACEL PHARMACEUTICALS, INC.
CONSOLIDATED STATEMENTS OF CASH FLOWS

(In thousands)

	Year Ended December 31,	
	2022	2021 As restated (see Note 1)
Operating activities:		
Net loss	\$ (21,198)	\$ (18,457)
Adjustments to reconcile net loss to net cash used in operating activities:		
Depreciation	32	43
Stock-based compensation	1,506	1,157
Changes in lease liability	40	172
Changes in operating assets and liabilities:		
Prepaid expenses and other assets	(3,784)	(4,480)
Accounts payable, accrued and other current liabilities	2,577	3,025
Net cash used in operating activities	<u>(20,827)</u>	<u>(18,540)</u>
Investing activities:		
Purchase of property, plant and equipment	(7)	(27)
Net cash used in investing activities	<u>(7)</u>	<u>(27)</u>
Financing activities:		
Proceeds, net of issuance costs, from issuing common stock and warrants	3,199	17,371
Proceeds from the exercise of stock options and warrants, net of issuance costs	—	4,567
Payment of preferred stock dividend	(201)	(201)
Net cash provided by financing activities	<u>2,998</u>	<u>21,737</u>
Effect of exchange rate changes on cash and cash equivalents	(378)	(17)
Net (decrease) increase in cash and cash equivalents	<u>(18,214)</u>	<u>3,153</u>
Cash and cash equivalents, beginning of period	36,559	33,406
Cash and cash equivalents, end of period	<u>\$ 18,345</u>	<u>\$ 36,559</u>
Supplemental cash flow information:		
Cash received during the period for:		
Interest	\$ 211	\$ 17
Research & Development Tax Credits	\$ 3,312	\$ 1,358
Non cash financing activities:		
Accrual of preferred stock dividends	\$ 50	\$ 50
Deemed dividend on redeemable common stock	\$ 135	\$ -

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

CYCLACEL PHARMACEUTICALS, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

1. Restatement of Prior Financial Information

During recent contract renegotiations with a contract counterparty related to the Company's 065-102 study and the consequential return to the Company of the original contract deposit of \$1.0 million and the subsequent preparation of the Company's financial statements for the period ended September 30, 2023, the Company identified an error in the accounting treatment of contract deposit-related invoices during the period September 2021 to November 2021. Vendor invoices totaling \$549,295 related to contractually required deposits received during September 2021 and November 2021 were incorrectly expensed to the income statement instead of being capitalized on the balance sheet as non-current deposits. The amounts were contractually required to remain on deposit until the end of the related contract. This resulted in an overstatement of operating loss of \$293,845 for the quarter ended September 30, 2021 and \$255,450 for the quarter ended December 31, 2021 and a corresponding understatement of non-current deposits in the same periods. In addition, the Company's UK research and development tax credits were consequentially overstated by \$64,000 for the quarter ended September 30, 2021 and \$55,000 for the quarter ended December 31, 2021.

On August 12, 2022, we became aware that our shelf registration statement on Form S-3 had expired on June 21, 2022. Prior to becoming aware of the expiration, but following the expiration, we sold an aggregate of 132,473 shares of our common stock at market prices for aggregate proceeds of approximately \$2,721,187. The sale of these shares were subject to potential rescission rights by certain stockholders. As a result of these rescission rights, we classified 207,807 shares (including 75,333 previously issued and outstanding shares sold for which the Company did not receive proceeds and which were reclassified to temporary equity as of September 30, 2022), with an aggregate redemption value of \$4,494,496 of our common stock as stock outside stockholders equity. In connection with the third quarter financial statement close process, the Company determined that it should have recorded 53,213 shares subject to potential rescission rights as temporary equity as of June 30, 2022 and these should have been reclassified out of temporary equity as of June 30, 2023 upon expiration of the rescission rights. The Company had recorded reclassification of these 53,213 shares sold in the second quarter of 2022, which had a redemption value of \$1,105,507 to temporary equity as of September 30, 2022. Moreover, the Company has determined that it did not properly account for the \$135,000 of aggregate fees paid in connection with the sale of those shares as a dividend to those stockholders. The \$135,000 of fees should be accounted for as accretion to the maximum redemption amount of the shares subject to potential rescission in the computation of loss per share as of June 30, 2022 and September 30, 2022 and the year ended December 31, 2022, as well as of March 31, 2023 and June 30, 2023, as is required by ASC 480-10-S99-3A(20).

The Company has restated herein its consolidated financial statements as of December 31, 2022 and 2021 and for each of the years ended December 31, 2022 and 2021 and to its consolidated financial statements for the quarter ended September 30, 2021 and each of the quarters ended March 31, 2022, June 30, 2022 and September 30, 2022, in accordance with Accounting Standards Codification ("ASC") Topic 250, Accounting Changes and Error Corrections, for the matters discussed above as well as other immaterial items.

The effect of the error corrections are as follows (in thousands, except per share amounts):

CONSOLIDATED BALANCE SHEETS	December 31,		December 31,
	2022		2022
	As previously reported	Adjustments	As Restated
ASSETS			
Non-current deposits	\$ 2,916	\$ 549	\$ 3,465
Total assets	<u>\$ 27,501</u>	<u>\$ 549</u>	<u>\$ 28,050</u>
LIABILITIES AND STOCKHOLDERS' EQUITY			
Accrued and other current liabilities	\$ 4,831	\$ 119	\$ 4,950
Total current liabilities	7,392	119	7,511
Total liabilities	<u>\$ 7,498</u>	<u>\$ 119</u>	<u>\$ 7,617</u>
Accumulated deficit	(406,157)	430	(405,727)
Total stockholders' equity	15,509	430	15,939
Total liabilities and stockholders' equity	<u>\$ 27,501</u>	<u>\$ 549</u>	<u>\$ 28,050</u>

CONSOLIDATED STATEMENTS OF INCOME	Year Ended December 31,		
	2022		2022
	As previously reported	Adjustments	As Restated
Net loss applicable to common shareholders	\$ (21,399)	\$ —	\$ (21,399)
Basic and diluted earnings per common share:			
Net Loss per share - basic and diluted (common shareholders)	\$ (28.52)	\$ (0.18)	\$ (28.70)
Net Loss per share - basic and diluted (redeemable common shareholders)	\$ —	\$ (27.24)	\$ (27.24)

CONSOLIDATED STATEMENTS OF STOCKHOLDERS EQUITY	Year Ended December 31,		
	2022		2022
	As previously reported	Adjustments	As Restated
Accumulated Deficit (Balances at December 31, 2022)	\$ (406,157)	\$ 430	\$ (405,727)
Total Stockholders' Equity (Balances at December 31, 2022)	\$ 15,509	\$ 430	\$ 15,939

CONSOLIDATED BALANCE SHEETS	December 31,		
	2021		2021
	As previously reported	Adjustments	As Restated
ASSETS			
Non-current deposits	\$ 1,551	\$ 549	\$ 2,100
Total assets	\$ 42,587	\$ 549	\$ 43,136
LIABILITIES AND STOCKHOLDERS' EQUITY			
Accrued and other current liabilities	\$ 3,177	\$ 119	\$ 3,296
Total current liabilities	5,294	119	5,413
Total liabilities	\$ 5,324	\$ 119	\$ 5,443
Accumulated deficit	(384,959)	430	(384,529)
Total stockholders' equity	37,263	430	37,693
Total liabilities and stockholders' equity	\$ 42,587	\$ 549	\$ 43,136

CONSOLIDATED STATEMENTS OF INCOME	Year Ended December 31,		
	2021		2021
	As previously reported	Adjustments	As Restated
Operating expenses:			
Research and development	\$ 15,477	\$ (549)	\$ 14,928
Total operating expenses	22,938	(549)	22,389
Operating loss	(22,938)	549	(22,389)
Loss before taxes	(22,734)	549	(22,185)
Income tax benefit	3,847	(119)	3,728
Net loss	(18,887)	430	(18,457)
Net loss applicable to common shareholders	\$ (19,088)	\$ 430	\$ (18,658)
Basic and diluted earnings per common share:			
Net loss per share – basic and diluted	\$ (32.08)	\$ 0.72	\$ (31.35)

CONSOLIDATED STATEMENTS OF COMPREHENSIVE LOSS	Year Ended December 31,		
	2021		2021
	As previously reported	Adjustments	As Restated
Net loss	\$ (18,887)	\$ 430	\$ (18,457)
Comprehensive loss	\$ (18,887)	\$ 430	\$ (18,457)

CONSOLIDATED STATEMENTS OF STOCKHOLDERS EQUITY	Year Ended December 31,		
	2021		2021
	As previously reported	Adjustments	As Restated
Accumulated Deficit (Loss for the period)	\$ (18,887)	\$ 430	\$ (18,457)
Accumulated Deficit (Balances at December 31, 2021)	\$ (384,959)	\$ 430	\$ (384,529)
Total Stockholders' Equity (Balances at December 31, 2021)	\$ 37,263	\$ 430	\$ 37,693

CONSOLIDATED STATEMENTS OF CASH FLOWS	Year Ended December 31,		
	2021		2021
	As previously reported	Adjustments	As Restated
Operating activities:			
Net loss	\$ (18,887)	\$ 430	\$ (18,457)
Changes in operating assets and liabilities:			
Prepaid expenses and other assets	(3,931)	(549)	(4,480)
Accounts payable, accrued and other current liabilities	2,906	119	3,025

With respect to the consolidated statements of cash flows for 2021, all adjustments are to line items within operating cash flows and there was no impact to the subtotal of operating, investing or financing cash flows for such periods.

The remainder of the notes to the Company's consolidated financial statements have been updated and restated, as applicable, to reflect the impacts of the restatement described above and have been notated as such.

2. Organization of the Company and Basis of Presentation

Cyclacel Pharmaceuticals, Inc. ("Cyclacel" or "the Company") is a clinical-stage biopharmaceutical company developing innovative cancer medicines based on cell cycle, transcriptional regulation and mitosis control biology. Cyclacel is a pioneer company in the field of cancer cell cycle biology with a vision to improve patient healthcare by translating insights in cancer biology into medicines that can overcome resistance and ultimately increase a patient's overall survival.

As of December 31, 2022, substantially all efforts of the Company to date have been devoted to performing research and development, conducting clinical trials, developing and acquiring intellectual property, raising capital and recruiting and training personnel.

The Company is subject to risks and uncertainties common to early-stage companies in the biopharmaceutical industry, including, but not limited to, the fact that drug candidates developed by the Company typically will require approvals or clearances from the U.S. Food and Drug Administration, the European Medicines Agency or other similar regulatory agencies in other countries prior to commercial sales. There can be no assurance that the Company's drug candidates will receive any of the required approvals or clearances. If any of the Company's drug candidates are denied approval or clearance or such approval is delayed, or if the Company is unable to obtain the necessary financing to complete development and approval, there will be a material adverse impact on the Company's financial condition and results of operations.

Through December 31, 2022, the Company has funded all of its operations and capital expenditures with proceeds from the issuance of public equity securities, private placements of securities, government grants, research and development tax credits, interest on investments, royalty income, product revenue and licensing revenue. The Company has incurred recurring losses since its inception, including net losses of \$18.5 million and \$21.2 million for the years ended December 31, 2021 and 2022, respectively. As of December 31, 2022, the Company had an accumulated deficit of \$405.7 million. The Company expects to continue to generate operating losses for the foreseeable future due to, among other things, costs related to the clinical development of its drug candidates, its preclinical programs and its administrative organization.

Going Concern

Pursuant to the requirements of Accounting Standard Codification (ASC) 205-40, *Presentation of Financial Statements-Going Concern*, management is required at each reporting period to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about an entity's ability to continue as a going concern within one year after the date that the financial statements are issued. This evaluation initially does not take into consideration the potential mitigating effect of management's plans that have not been fully implemented as of the date the financial statements are issued. When substantial doubt exists under this methodology, management evaluates whether the mitigating effects of its plans sufficiently alleviate the substantial doubt about the Company's ability to continue as a going concern. The mitigating effect of management's plans, however, is only considered if both (1) it is probable that the plans will be effectively implemented within one year after the date that the financial statements are issued, and (2) it is probable that the plans, when implemented, will mitigate the relevant conditions or events that raise substantial doubt about the entity's ability to continue as a going concern for one year after the date that these financial statements are issued. In performing its analysis, management excluded certain elements of its operating plan that cannot be considered probable. Under ASC 205-40, the future receipts of potential funding from future equity or debt issuances or by entering into partnership agreements cannot be considered probable at this time because these plans are not entirely within the Company's control nor have they been approved by the Board of Directors as of the date of these consolidated financial statements.

Based on the Company's current operating plan, it is anticipated that cash and cash equivalents of \$18.3 million as of December 31, 2022 will allow it to meet liquidity requirements to the fourth quarter of 2023. The Company's history of losses, negative cash flows from operations, potential rescission rights, liquidity resources currently on hand, and its dependence on the ability to obtain additional financing to fund its operations after the current resources are exhausted, about which there can be no certainty, have resulted in the assessment that there is substantial doubt about the Company's ability to continue as a going concern for a period of at least twelve months from the issuance date of these financial statements. While the Company has plans in place to mitigate this risk, which primarily consist of raising additional capital through a combination of public or private equity or debt financings or by entering into partnership agreements for further development of our drug candidates, there is no guarantee that it will be successful in these mitigation efforts. The accompanying consolidated financial statements have been prepared on a going concern basis, which contemplates realization of assets and the satisfaction of liabilities in the normal course of business.

Basis of Presentation

The accompanying consolidated financial statements have been prepared in accordance with accounting principles generally accepted in the United States of America, or GAAP and include the financial statements of Cyclacel Pharmaceuticals, Inc. and all of the Company's wholly owned subsidiaries. All intercompany accounts and transactions have been eliminated.

3. Summary of Significant Accounting Policies

Use of Estimates

The preparation of financial statements in accordance with GAAP requires management to make estimates and assumptions that affect the reported amounts of assets, liabilities and related disclosures of contingent assets and liabilities at the date of the financial statements and the reported amounts of expenses during the reporting period. Critical estimates include inputs used to determine clinical trial accruals and stock-based compensation expense. Cyclacel reviews its estimates on an ongoing basis. The estimates are based on historical experience and on various other assumptions that the Company believes to be reasonable under the circumstances. Actual results may differ from these estimates. Cyclacel believes the judgments and estimates required by the following accounting policies to be significant in the preparation of the Company's consolidated financial statements.

Foreign Currency and Currency Translation

Transactions that are denominated in a foreign currency are remeasured into the functional currency at the current exchange rate on the date of the transaction. Any foreign currency-denominated monetary assets and liabilities are subsequently remeasured at current exchange rates, with gains or losses recognized as foreign exchange (losses) gains in the statement of operations.

The assets and liabilities of the Company's international subsidiary are translated from its functional currency into United States dollars at exchange rates prevailing at the balance sheet date. Average rates of exchange during the period are used to translate the statement of operations, while historical rates of exchange are used to translate any equity transactions. Translation adjustments arising on consolidation due to differences between average rates and balance sheet rates, as well as unrealized foreign exchange gains or losses arising from translation of intercompany loans that are of a long-term-investment nature, are recorded in other comprehensive loss.

Cash and Cash Equivalents

Financial instruments that potentially expose the Company to concentrations of credit risk consist primarily of cash and cash equivalents. The Company considers all highly liquid investments with an original maturity of three months or less at the time of initial purchase to be cash equivalents. The objectives of the Company's cash management policy are to safeguard and preserve funds, to maintain liquidity sufficient to meet Cyclacel's cash flow requirements and to attain a market rate of return. The Company deposits its cash in financial institutions that it believes have high credit quality and has not experienced any losses on such accounts and does not believe it is exposed to any significant credit risk on cash and cash equivalents.

The Company's cash and cash equivalents balance at December 31, 2022 was \$18.6 million and it maintains its cash accounts in several entities both within the United States and the United Kingdom. The cash balances for amounts held in the United States are insured by the Federal Deposit Insurance Corporation, or FDIC up to \$250,000 per account. The Company has cash balances exceeding the balance insured by the FDIC that totaled approximately \$17.8 million at December 31, 2022. The cash balances for amounts held in the United Kingdom are insured by the UK Government Financial Services Compensation Scheme, or FSCS up to £85,000 per account. The Company has cash balances exceeding the balance insured by the FSCS that totaled approximately \$0.2 million at December 31, 2022.

Property and Equipment

The components of property and equipment are stated at cost and depreciated on a straight-line basis over the estimated useful lives of the related assets, which are generally three to five years. Amortization of leasehold improvements is performed using the straight-line method over the shorter of the remaining lease term or the estimated useful life of the related assets, currently less than one year. Upon sale or retirement of assets, the costs and related accumulated depreciation and amortization are removed from the balance sheet and the resulting gain or loss on sale is reflected as a component of operating income or loss. Expenditures for maintenance and repairs are charged to operating expenses as incurred.

Impairment of Long-lived Assets

The Company reviews property and equipment for impairment whenever events or changes in business circumstances indicate that the carrying amount of the assets may not be fully recoverable. The Company assesses the recoverability of the potentially affected long-lived assets by determining whether the carrying value of such assets can be recovered through undiscounted future operating cash flows.

Impairment, if any, is measured as the amount by which the carrying amount of a long-lived asset or asset group exceeds its fair value.

Fair Value of Financial Instruments

Fair value is defined as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. Valuation techniques used to measure fair value must maximize the use of observable inputs and minimize the use of unobservable inputs. Assets and liabilities measured at fair value are classified and disclosed in one of the following three levels of the fair value hierarchy, of which the first two are considered observable and the last is considered unobservable:

- Level 1 — Quoted prices in active markets for identical assets or liabilities.
- Level 2 — Observable inputs (other than Level 1 quoted prices), such as quoted prices in active markets for similar assets or liabilities, quoted prices in markets that are not active for identical or similar assets or liabilities, or other inputs that are observable or can be corroborated by observable market data.
- Level 3 — Unobservable inputs that are supported by little or no market activity that are significant to determining the fair value of the assets or liabilities, including pricing models, discounted cash flow methodologies and similar techniques.

The carrying values of cash and cash equivalents, other receivables, accounts payable and accrued expenses approximate their fair values due to the short-term nature of these assets and liabilities.

Segments

The Company is managed and operated as one business which is focused on using cell cycle, transcriptional regulation and mitosis control biology to develop innovative, targeted medicines for cancer and other proliferative diseases. The entire business is managed by a single management team that reports to the Chief Executive Officer. The Company does not operate separate lines of business with respect to any of its products or product candidates and the Company does not prepare discrete financial information with respect to separate products or product candidates or by location. Accordingly, the Company views its business as one reportable operating segment with development operations in two geographic areas, namely the United States and the United Kingdom.

Revenue Recognition

The Company recognizes revenue in accordance with Accounting Standards Codification (ASC) 606, *Revenue from Contracts with Customers*. The Company had no revenue in 2021 or 2022 under such contracts. Royalty income, if any, is recognized when the licensee sells the underlying product to which the royalty relates.

Other Income

Other income is primarily related to royalty income received under a historical Asset Purchase Agreement for activities which are not part of the Company's ongoing operations and activities.

Research and Development Costs

Research and development expenses consist primarily of costs associated with the development of the Company's product candidates, including upfront fees, milestones, compensation and other expenses for research and development personnel, supplies and development materials, costs for consultants and related contract research, facility costs and depreciation. Expenditures relating to research and development are expensed as incurred.

Clinical Trial Accounting

Data management and monitoring of the Company's clinical trials are performed with the assistance of contract research organizations, or CROs or clinical research associates, or CRAs in accordance with the Company's standard operating procedures. Typically, CROs and CRAs bill monthly for services performed, and others bill based upon milestones achieved. The Company accrues unbilled clinical trial expenses based on estimates of the level of services performed each period. Clinical trial costs related to patient enrollment are accrued as patients are entered into and progress through the trial.

Patent Costs

Patent prosecution costs are charged to general and administrative expenses as incurred as recoverability of such expenditure is uncertain.

Leases

The Company accounts for lease contracts in accordance with ASC 842. As of December 31, 2021 and 2022, all of the Company's leases are classified as operating leases.

The Company recognizes an asset for the right to use an underlying leased asset for the lease term and records lease liabilities based on the present value of the Company's obligation to make lease payments under the lease. As the Company's leases do not indicate an implicit rate, the Company uses a best estimate of its incremental borrowing rate to discount the future lease payments. The Company estimates its incremental borrowing rate based on observable information about risk-free interest rates that are the same tenure as the lease term, adjusted for various factors, including the effects of assumed collateral, the nature of how a loan would be repaid (e.g., amortizing versus bullet), and the Company's credit risk.

The Company evaluates options included in its lease agreements to extend or terminate the lease. The Company will reflect the effects of exercising those options in the lease term when it is reasonably certain that the Company will exercise that option. In assessing whether it is reasonably certain that the Company will exercise an option, the Company considers factors such as:

- The lease payments due in any optional period;
- Penalties for failure to exercise (or not exercise) the option;
- Market factors, such as the availability of similar assets and current rental rates for such assets;
- The nature of the underlying leased asset and its importance to the Company's operations; and
- The remaining useful lives of any related leasehold improvements.

Lease expense for the Company's operating leases is recognized on a straight-line basis over the lease term and is reported as a component of general and administrative expense. Variable lease payments, if any, are recognized in the period when the obligation to make those payments is incurred. Lease incentives received prior to lease commencement are recorded as a reduction in the right-of-use asset. Fixed lease incentives received after lease commencement reduce both the lease liability and the right-of-use asset.

The Company has elected an accounting policy to account for the lease and non-lease components as a single lease component.

Stock-based Compensation

The Company measures all stock options and other stock-based awards granted to employees and directors based on the fair value on the date of the grant and recognizes compensation expense of those awards over the requisite service period, which for the Company is the period between the grant date and the date the award vests or becomes exercisable. Many awards granted by the Company vest ratably over three or four years. However, certain awards granted to members of the Company's Board of Directors vest in their entirety on the one-year anniversary following the date of grant. Generally, the Company issues stock options and restricted stock awards to employees with only service-based vesting conditions and records the expense for these awards using the straight-line method. However, in certain years, the Company will grant share-based payment awards to employees that are dependent upon the fulfillment of certain clinical and financial conditions. In such instances where the performance condition must be met for the award to vest, the company only recognizes compensation expense when the award is probable of vesting (See Note 12 — Stock-Based Compensation).

The Company classifies stock-based compensation expenses in its statement of operations in the same manner in which the award recipient's payroll costs are classified. The Company accounts for forfeitures as they occur.

The fair value of restricted stock and restricted stock units is determined based on the number of shares granted and the quoted price of the Company's common stock on the date of grant. The determination of grant-date fair value for stock option awards is estimated using the Black-Scholes model, which includes variables such as the expected volatility of the Company's share price, expected term of the award, interest rates, and dividend yields.

The Company relies on its historical volatility as an input to the option pricing model as management believes that this rate will be representative of future volatility over the expected term of the options.

The expected term assumption is estimated using past history of early exercise behavior and expectations about future behaviors.

The weighted average risk-free interest rate represents the interest rate for treasury constant maturities published by the Federal Reserve Board. If the term of available treasury constant maturity instruments is not equal to the expected term of an employee option, Cyclacel interpolates a discount rate based on the two Federal Reserve securities closest to the expected term of the employee option.

The expected dividend yield is zero, as the Company has never paid cash dividends on common stock and does not expect to pay any cash dividends on common stock in the foreseeable future.

Income Taxes

The Company accounts for income taxes using the liability method. Under this method, deferred tax assets and liabilities are determined based on the difference between the financial statement and tax bases of assets and liabilities using enacted tax rates in effect for the year in which the differences are expected to affect taxable income. Valuation allowances are established when necessary to reduce deferred tax assets to the amounts expected to be realized.

The Company accounts for uncertainty in income taxes recognized in the financial statements by applying a two-step process to determine the amount of tax benefit to be recognized. First, the tax position must be evaluated to determine the likelihood that it will be sustained upon external examination by the taxing authorities. If the tax position is deemed more-likely-than-not-to be sustained, the tax position is then assessed to determine the amount of benefit to recognize in the financial statements. The amount of the benefit that may be recognized is the largest amount that has a greater than 50% likelihood of being realized upon ultimate settlement. The provision for income taxes includes the effects of any resulting tax reserves for unrecognized tax benefits that are considered appropriate as well as the related net interest and penalties.

Credit is taken in the accounting period for research and development tax credits, which will be claimed from H.M. Revenue & Customs, or HMRC, the United Kingdom's taxation and customs authority, in respect of qualifying research and development costs incurred in the same accounting period.

Net Loss Per Common Share

The Company calculates net loss per common share in accordance with ASC 260 "Earnings Per Share". Basic and diluted net loss per common share was determined by dividing the net loss applicable to common stockholders by the weighted average number of common shares outstanding during the period. Beginning in the second quarter of 2022, the Company began calculating loss per share using the two-class method. The two-class method is an allocation formula that determines loss per share for each share of common stock and redeemable common stock (see note 15), a participating security, according to dividends declared and participation rights in undistributed earnings. The reconciliation showing the loss per share attributable to common and redeemable common stockholders is discussed in Note 15 of the Notes to the Consolidated Financial Statements accompanying this Annual Report on Form 10-K.

In periods in which the Company reports a net loss attributable to common stockholders, diluted net loss per share attributable to common stockholders is the same as basic net loss per share attributable to common stockholders since potentially dilutive common shares are not assumed to have been issued if their effect is anti-dilutive. The Company reported a net loss attributable to common stockholders for the years ended December 31, 2021 and 2022.

Comprehensive Income (Loss)

All components of comprehensive income (loss), including net income (loss), are reported in the financial statements in the period in which they are recognized. Comprehensive income (loss) is defined as the change in equity during a period from transactions and other events and circumstances from non-owner sources. Net income (loss) and other comprehensive income (loss), including foreign currency translation adjustments, are reported, net of any related tax effect as applicable, to arrive at comprehensive income (loss). No taxes were recorded on items of other comprehensive income (loss). There were no reclassifications out of other comprehensive income (loss) during the years ended December 31, 2021 and 2022.

Recently Issued Accounting Pronouncements

The Financial Accounting Standards Board ("FASB") has issued Accounting Standards Update ("ASU") 2020-04, "Reference Rate Reform (Topic 848)". This standard provides optional expedients and exceptions for applying GAAP to contracts, hedging relationships, and other transactions affected by reference rate reform initiatives that would replace interbank offered rates, including the London Interbank Offered Rate (LIBOR). For example, modifications of lease contracts within the scope of ASC 842 solely for changes in reference rates would be accounted for as a continuation of the existing contracts with no reassessments of the lease classification and the discount rate. Following the issuance of ASU 2022-06, "Reference Rate Reform (Topic 848): Deferral of the Sunset Date of Topic 848", the relief remains effective for all entities as of March 12, 2020 through December 31, 2024. The Company does not currently have any contracts affected by this guidance.

In November 2021, the FASB issued ASU No. 2021-10, *Government Assistance (Topic 832): Disclosures by Business Entities about Government Assistance*. This ASU requires business entities to make annual disclosures about transactions with a government they account for by analogizing to a grant or contribution accounting model under ASC 958-605 or based on International Accounting Standard No. 20. ASU 2021-10 which became effective for us on January 1, 2022. The Company has evaluated the effect that this guidance has on its Consolidated Financial Statements and has determined it does not have a material impact.

In May 2021, the FASB issued ASU 2021-04, *Earnings Per Share (Topic 260), Debt-Modifications and Extinguishments (Subtopic 470-50), Compensation-Stock Compensation (Topic 718), and Derivatives and Hedging-Contracts in Entity's Own Equity (Subtopic 815-40)*. The new ASU addresses issuer's accounting for certain modifications or exchanges of freestanding equity-classified written call options. This amendment became effective for the Company on January 1, 2022. This new guidance does not have a material impact on our financial statements for any past transactions, but it could change the way that the Company accounts for subsequent amendments to its outstanding warrants, if any.

4. Significant Contracts

(j) Distribution, Licensing and Research Agreements

The Company has entered into licensing and similar agreements with academic and research organizations. Under the terms of these agreements, the Company has received licenses to technology and patent applications. The Company may be required to pay royalties on future sales of products employing the technology or falling under claims of patent applications.

Under a 2003 license agreement, the Company licensed certain patent rights for sapacitabine. The Company will not be pursuing further development of sapacitabine and has notified Daiichi Sankyo Co., Ltd., the licensor, that it wishes to terminate the sapacitabine license agreement effective as of March 23, 2023 for commercial reasons.

The three-year term of the Clinical Collaboration Agreement, or CCA with The University of Texas MD Anderson Cancer Center, or MD Anderson ended in September 2021, in accordance with its terms. The main objective of the CCA was to clinically evaluate the safety and efficacy of three Cyclacel medicines in patients with hematological malignancies, including chronic lymphocytic leukemias, acute myeloid leukemias, myelodysplastic syndromes and other advanced leukemias. Under the terms of the CCA, MD Anderson conducted four clinical studies and under the risk-sharing agreement MD Anderson assumed the patient costs for all studies and Cyclacel, who is the sponsor, provided investigational drugs and other limited support. The agreement provided that the Company would make certain payments to MD Anderson upon first commercial sale in specific indications studied in the alliance. There were no such payments earned in 2021 or 2022.

5. Cash and Cash Equivalents

The following is a summary of cash and cash equivalents at December 31, 2021 and 2022 (in thousands):

	December 31,	
	2022	2021
Cash	\$ 13,798	\$ 32,082
Cash equivalents	4,547	4,477
Total cash and cash equivalents	<u>\$ 18,345</u>	<u>\$ 36,559</u>

Cash equivalents are made up entirely of money market funds.

6. Fair Value of Financial Assets and Liabilities

The following tables present information about the Company's financial assets and liabilities measured at fair value on a recurring basis and indicate the level of the fair value hierarchy utilized to determine such fair values (in thousands):

	Fair Value Measurements			
	as of December 31, 2021 Using:			
	Level 1	Level 2	Level 3	Total
Assets:				
Cash equivalents	\$ 4,477	\$ —	\$ —	\$ 4,477
Total Assets	<u>\$ 4,477</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$ 4,477</u>

**Fair Value Measurements
as of December 31, 2022 Using:**

	Level 1	Level 2	Level 3	Total
Assets:				
Cash equivalents	\$ 4,547	\$ —	\$ —	\$ 4,547
Total Assets	\$ 4,547	\$ —	\$ —	\$ 4,547

7. Prepaid Expenses and Other Assets

The following is a summary of prepaid expenses and other current assets at December 31, 2021 and 2022 (in thousands):

	December 31, 2022	December 31, 2021
Research and development tax credit receivable	\$ 4,664	\$ 3,727
Prepayments and VAT receivable	976	577
Other current assets	426	79
	\$ 6,066	\$ 4,383

As at December 31, 2022, the Company had non-current assets of \$3.5 million, which comprised clinical trial deposits held by a contract research organization in relation to the Company's Phase 1/2 clinical trials.

8. Property and Equipment

Property and equipment consisted of the following at December 31, 2021 and 2022 (in thousands):

	Lives in years	December 31,	
		2022	2021
Leasehold improvements	2 to 15	\$ 6	\$ 6
Office equipment and furniture	3 to 5	409	419
		415	425
Less: accumulated depreciation and amortization		(383)	(361)
		\$ 32	\$ 64

9. Accrued and Other Current Liabilities

Accrued and other current liabilities consisted of the following at December 31, 2021 and 2022 (in thousands):

	December 31, 2022	December 31, 2021
	As restated (see Note 1)	As restated (see Note 1)
Accrued research and development	\$ 3,611	\$ 2,310
Accrued legal and professional fees	333	233
Other current liabilities	1,006	753
	\$ 4,950	\$ 3,296

Other current liabilities include accrued payroll costs of approximately \$680,000 and \$495,000 for the years ended December 31, 2022 and 2021 respectively.

10. Commitments and Contingencies

General

Please refer to *Note 4 — Significant Contracts* for further discussion of certain of the Company’s commitments and contingencies.

Leases

In October 2000, the Company entered into a twenty-five-year lease for its research and development facility in Dundee, Scotland. In May 2021, the Company vacated its former facility in Dundee, Scotland and assigned the related lease and all future commitments to a third party. Accordingly, the Company derecognized the associated right-of-use lease asset of \$1.1 million as well as the associated lease liability of \$1.2 million, with the balancing \$0.1 million credited to general and administrative expenses. Costs of \$0.4 million relating to the assignment of the lease were also recorded within the consolidated statement of operations.

In April 2022, the Company extended for a further three years, expiring in July 2025, the lease for its corporate headquarters facility in Berkeley Heights, New Jersey.

Rent expense, which includes lease payments related to the Company’s research and development facilities and corporate headquarters and other rent related expenses was \$0.2 million for the year ended December 31, 2021 and decreased to \$0.1 million for the year ended December 31, 2022, the reduction due to the assignment of the Company’s former facility in Dundee, Scotland. Rent expense is reported as a component of General and Administrative expense.

The following is a summary of the Company’s future contractual obligations and commitments relating to its facilities lease as at December 31, 2022 (in thousands):

	Operating Lease Obligation
2023	\$ 63
2024	65
2025	38
2026	—
2027	—
thereafter	—
Total future minimum lease obligation	\$ 166

11. Stockholders’ Equity

The Company has completed the following equity issuances during the periods presented in the consolidated financial statements.

August 2021 Controlled Equity Offering Sales Agreement

On August 12, 2021, the Company entered into a Controlled Equity Offering Sales Agreement (the “Sales Agreement”) with Cantor Fitzgerald & Co. (“Cantor”), pursuant to which the Company could issue and sell, from time to time, shares of its common stock having an aggregate offering price of up to \$50.0 million through Cantor as the sales agent. Cantor could sell the Company’s common stock by any method permitted by law deemed to be an “at the market offering” as defined in Rule 415(a)(4) of the Securities Act.

On August 12, 2022, the Company became aware that the shelf registration statement on Form S-3 (file number 333-231923) (the “Registration Statement”) associated with this Sales Agreement had expired on June 21, 2022. Prior to becoming aware of the expiration, the Company sold an aggregate of 132,473 shares of its common stock at the market price, following the expiration of the Registration Statement and through August 12, 2022, for aggregate proceeds of approximately \$2,721,187. There was no sale of shares post August 12, 2022. The sale of these shares may be subject to potential rescission rights by certain stockholders. As of December 31, 2022, there have been no claims or demands to exercise such rights. As a result of these potential rescission rights, the Company classified 207,807 shares (including 75,333 shares sold for which the Company did not receive proceeds and which were reclassified to temporary equity during the third quarter of 2022), with an aggregate redemption value of \$4,494,496 of its common as stock outside stockholders’ equity. The reclassification of these shares shall remain for a period of one year from transaction date. These shares have been treated as issued and outstanding for earnings per share and financial reporting purposes.

On August 15, 2022, due to expiry of the Registration Statement, the Sales Agreement was mutually terminated. A total of 218,738 shares, for gross proceeds of approximately \$7.6 million, had been sold pursuant to the Sales Agreement, including 168,576 shares during the year ended December 31, 2022 for gross proceeds of approximately \$3.4 million.

March 2021 Equity Financing

On March 12, 2021, the Company entered into an Underwriting Agreement (the “Underwriting Agreement”) with Oppenheimer & Co. Inc., as representative of the underwriters identified therein (collectively, the “Underwriters”), pursuant to which the Company agreed to issue and sell 120,476 shares of common stock, \$0.001 par value per share, at a public offering price of \$105.00 per share (the “Offering”) along with a 30-day overallotment option to purchase up to an additional 18,071 shares of common stock at the public offering price, less underwriting discounts and commissions.

The closing of the offering occurred on March 16, 2021, and the net proceeds to the Company (including exercise of the over-allotment option) were approximately \$13.5 million, after deducting placement agent fees and other offering expenses payable by the Company.

Warrants

December 2020 Warrants

As of December 31, 2022, warrants to purchase 44,657 shares of common stock issued in a December 2020 financing transaction remained outstanding. Each warrant shall be exercisable beginning on the 12-month anniversary of the date of issuance for a period of five years after the date of issuance, at an exercise price of \$61.95 per warrant share. The exercise price of the warrants will be subject to adjustment in the event of any stock dividends and splits, reverse stock split, recapitalization, reorganization or similar transaction, as described in the warrants. The warrants may be exercised on a “cashless” basis.

There were no exercises of these warrants during the year ended December 31, 2022 or December 31, 2021.

April 2020 Warrants

As of December 31, 2022, 146,000 warrants issued in connection with an April 2020 equity financing remained outstanding, each with an exercise price of \$75.00. The common warrants are immediately exercisable and will expire on the fifth anniversary of the original issuance date. The exercise price and number of shares of common stock issuable upon exercise is subject to appropriate adjustment in the event of stock dividends, stock splits, reorganizations or similar events affecting the Company’s common stock. The common warrants were issued separately from the common stock and were eligible for transfer immediately after issuance. A common warrant to purchase one share of common stock was issued for every share of common stock purchased in this offering.

The common warrants are exercisable, at the option of each holder, in whole or in part, by delivering to the Company a duly executed exercise notice accompanied by payment in full for the number of shares of the Company’s common stock purchased upon such exercise (except in the case of a cashless exercise). A holder (together with its affiliates) may not exercise any portion of the common warrant to the extent that the holder would own more than 4.99% of the outstanding common stock immediately after exercise, except that upon at least 61 days prior notice from the holder to the Company, the holder may increase the amount of ownership of outstanding stock after exercising the holder’s common warrants up to 9.99% of the number of shares of the Company’s common stock outstanding immediately after giving effect to the exercise, as such percentage ownership is determined in accordance with the terms of the common warrants. No fractional shares of common stock will be issued in connection with the exercise of a common warrant. In lieu of fractional shares, the Company will round down to the next whole share.

There were no warrants exercised during the year ended December 31, 2022, and a total of 60,600 warrants exercised during the year ended December 31, 2021.

July 2017 Warrants

As of December 31, 2022, 24,968 warrants issued in connection with a July 2017 underwritten public offering remained outstanding, each with an exercise price of \$600.00. All such warrants were issued in connection with the July 2017 underwritten public offering and are immediately exercisable. The warrants expire in 2024. Subject to limited exceptions, a holder of warrants will not have the right to exercise any portion of its warrants if the holder (together with such holder's affiliates, and any persons acting as a group together with such holder or any of such holder's affiliates) would beneficially own a number of shares of common stock in excess of 4.99% (or, at the election of the purchaser, 9.99%) of the shares of our Common Stock then outstanding after giving effect to such exercise.

The exercise price and the number of shares issuable upon exercise of the warrants is subject to appropriate adjustment in the event of recapitalization events, stock dividends, stock splits, stock combinations, reclassifications, reorganizations or similar events affecting the Company's common stock. The warrant holders must pay the exercise price in cash upon exercise of the warrants unless such warrant holders are utilizing the cashless exercise provision of the warrants. On the expiration date, unexercised warrants will automatically be exercised via the "cashless" exercise provision.

Prior to the exercise of any warrants to purchase common stock, holders of the warrants will not have any of the rights of holders of the common stock purchasable upon exercise, including the right to vote, except as set forth therein.

There were no portion of these warrants exercised during each of the years ended December 31, 2021 and 2022.

Series B Preferred Stock

237,745 shares of the Company's Series B Preferred Stock were issued in a December 2020 Securities Purchase Agreement. Each share of Series B Preferred Stock shall initially be convertible into one third (1/3) of one share of Common Stock (the "Conversion Shares"), subject to adjustment in accordance with the Certificate of Designation.

Holders of Series B Preferred Stock are entitled to receive dividends on shares of Series B Preferred Stock equal, on an as-if-converted-to-Common-Stock basis, and in the same form as dividends actually paid on shares of the Common Stock. Except as otherwise required by law, the Series B Preferred Stock does not have voting rights. However, as long as any shares of Series B Preferred Stock are outstanding, the Company will not, without the affirmative vote of the holders of a majority of the then outstanding shares of the Series B Preferred Stock, (a) alter or change adversely the powers, preferences or rights given to the Series B Preferred Stock, (b) alter or amend the Certificate of Designation, (c) amend its certificate of incorporation or other charter documents in any manner that adversely affects any rights of the holders of Series B Preferred Stock, (d) increase the number of authorized shares of Series B Preferred Stock, (e) pay certain dividends or (f) enter into any agreement with respect to any of the foregoing. The Series B Preferred Stock does not have a preference upon any liquidation, dissolution or winding-up of the Company. The Purchaser may convert shares of Series B Preferred Stock through a conversion into shares of Common Stock if and solely to the extent that such conversion would not result in the Purchaser beneficially owning in excess of 9.99% of then-outstanding Common Stock or aggregate voting power of the Company (such limitation, the "Ownership Limitation") and any portion in excess of such limitation will remain outstanding as Series B Preferred Stock.

Series A Preferred Stock

8,872 shares of the Company's Series A Preferred Stock were issued in a July 2017 Underwritten Public Offering. Each share of Series A Preferred Stock is convertible at any time at the option of the holder thereof, into a number of shares of common stock determined by dividing \$1,000 by the initial conversion price of \$600.00 per share, subject to a 4.99% blocker provision, or, upon election by a holder prior to the issuance of shares of Series A Preferred Stock, 9.99%, and is subject to adjustment for stock splits, stock dividends, distributions, subdivisions and combinations.

As of December 31, 2021 and 2022, 264 shares of the Series A Preferred Stock remain issued and outstanding. The 264 shares of Series A Preferred Stock issued and outstanding at December 31, 2022, are convertible into 440 shares of common stock.

In the event of a liquidation, the holders of shares of the Series A Preferred Stock may participate on an as-converted-to-common-stock basis in any distribution of assets of the Company. The Company shall not pay any dividends on shares of common stock (other than dividends in the form of common stock) unless and until such time as dividends on each share of Series A Preferred Stock are paid on an as-converted basis. There is no restriction on the Company's ability to repurchase shares of Series A Preferred Stock while there is any arrearage in the payment of dividends on such shares, and there are no sinking fund provisions applicable to Series A Preferred Stock.

Subject to certain conditions, at any time following the issuance of the Series A Preferred Stock, the Company has the right to cause each holder of the Series A Preferred Stock to convert all or part of such holder's Series A Preferred Stock in the event that (i) the volume weighted average price of our common stock for 30 consecutive trading days, or Measurement Period exceeds 300% of the initial conversion price of the Series A Preferred Stock (subject to adjustment for forward and reverse stock splits, recapitalizations, stock dividends and similar transactions), (ii) the daily trading volume on each Trading Day during such Measurement Period exceeds \$500,000 per trading day and (iii) the holder is not in possession of any information that constitutes or might constitute, material non-public information which was provided by the Company. The right to cause each holder of Series A Preferred Stock to convert all or part of such holder's Series A Preferred Stock shall be exercised ratably among the holders of the then outstanding preferred stock.

The Series A Preferred Stock has no maturity date, will carry the same dividend rights as the common stock, and with certain exceptions contains no voting rights. In the event of any liquidation or dissolution of the Company, the Series A Preferred Stock ranks senior to the common stock in the distribution of assets, to the extent legally available for distribution.

6% Convertible Exchangeable Preferred Stock

As of December 31, 2022, there were 335,273 shares of the Company's 6% Convertible Exchangeable, or Preferred Stock issued and outstanding at an issue price of \$10.00 per share. Dividends on the Preferred Stock are cumulative from the date of original issuance at the annual rate of 6% of the liquidation preference of the Preferred Stock, and if declared, payable quarterly on the first day of February, May, August and November, commencing February 1, 2005. Any dividends must be declared by the Company's Board of Directors and must come from funds that are legally available for dividend payments. The Preferred Stock has a liquidation preference of \$10.00 per share, plus accrued and unpaid dividends.

The Company's Board of Directors considers numerous factors in determining whether to declare the quarterly dividend pursuant to the Certificate of Designations governing the terms of the Company's Preferred Stock, including the requisite financial analysis and determination of a surplus. Accumulated but unpaid dividends in arrears on preferred stock were \$0.7 million, or \$1.95 per share, of preferred stock, as of December 31, 2022.

The Preferred Stock is convertible at the option of the holder at any time into the Company's shares of common stock at a conversion rate of approximately 0.0000167 shares of common stock for each share of Preferred Stock based on a price of \$592,200. The Company has reserved 6 shares of common stock for issuance upon conversion of the remaining shares of Preferred Stock outstanding at December 31, 2022. The shares of previously converted Preferred Stock have been retired, cancelled and restored to the status of authorized but unissued shares of preferred stock, subject to reissuance by the Board of Directors as shares of Preferred Stock of one or more series.

The Company may automatically convert the Preferred Stock into common stock if the closing price of the Company's common stock has exceeded \$888,300, which is 150% of the conversion price of the Preferred Stock, for at least 20 trading days during any 30-day trading period, ending within five trading days prior to notice of automatic conversion.

The Certificate of Designations governing the Preferred Stock provides that if the Company fails to pay dividends on its Preferred Stock for six quarterly periods, holders of Preferred Stock are entitled to nominate and elect two directors to the Company's Board of Directors. This right accrued to the holders of Preferred Stock as of August 2, 2010 and two directors were nominated and elected at the annual meeting held on May 24, 2011.

The Preferred Stock has no maturity date and no voting rights prior to conversion into common stock, except under limited circumstances.

The Company may, at its option, redeem the Preferred Stock in whole or in part, out of funds legally available at the redemption price of \$10.00 per share.

The Preferred Stock is exchangeable, in whole but not in part, at the option of the Company on any dividend payment date beginning on November 1, 2005, or Exchange Date for the Company's 6% Convertible Subordinated Debentures, or Debentures at the rate of \$10.00 principal amount of Debentures for each share of Preferred Stock. The Debentures, if issued, will mature 25 years after the Exchange Date and have terms substantially similar to those of the Preferred Stock. No such exchanges have taken place as of December 31, 2022.

For the year ended December 31, 2022, the company declared dividends of \$0.15 per share quarterly on its 6% Convertible Exchangeable Preferred Stock. These dividends were paid on May 1, August 1 and November 1, 2022, and February 1, 2023, respectively.

12. Stock-Based Compensation

Stock based compensation has been reported within expense line items on the consolidated statement of operations for the years ended 2021 and 2022 as shown in the following table (in thousands):

	Year Ended December 31,	
	2022	2021
General and administrative	\$ 1,051	\$ 819
Research and development	455	338
Stock-based compensation costs before income taxes	<u>\$ 1,506</u>	<u>\$ 1,157</u>

2018 Plan

In May 2018, the Company's stockholders approved the 2018 Equity Incentive Plan (the "2018 Plan"), under which Cyclacel may make equity incentive grants to its officers, employees, directors and consultants. The 2018 Plan replaced the 2015 Equity Incentive Plan (the "2015 Plan").

The 2018 Plan allows for various types of award grants, including stock options and restricted stock units.

On June 14, 2022, the Company's stockholders approved an increase of 33,333 shares of common stock to be reserved for issuance under the 2018 Plan. As of December 31, 2022, the Company has 26,159 shares of the Company's common stock reserved and available for issuance under the 2018 Plan, including shares that were available under the 2015 Plan and carried forward to the 2018 Plan. Stock option awards granted under the Company's equity incentive plans have a maximum life of 10 years and generally vest over a one to four-year period from the date of grant.

2020 Inducement Equity Incentive Plan

In October 2020, the Inducement Equity Incentive Plan (the “Inducement Plan”), became effective. Under the Inducement Plan, Cyclacel may make equity incentive grants to new senior level Employees (persons to whom the Company may issue securities without stockholder approval). The Inducement Plan allows for the issuance of up to 13,333 shares of the Company’s common stock (or the equivalent of such number). As of December 31, 2022, 8,000 shares under the Inducement Plan have been issued, leaving a remaining reserve of 5,333 shares.

Option Grants and Exercises

There were 36,810 options granted during the year ended December 31, 2021, all issued under the 2018 Plan. There were 34,822 options granted during the year ended December 31, 2022, all issued under the 2018 Plan.

The weighted average grant-date fair values of options granted during the years ended December 31, 2021 and 2022 were \$50.33 and \$26.44, respectively.

As of December 31, 2022, the total remaining unrecognized compensation cost related to the unvested stock options with service conditions amounted to approximately \$2.0 million, which will be amortized over the weighted-average remaining requisite service period of 1.4 years.

During the years ended December 31, 2021 and 2022, the Company did not settle any equity instruments with cash.

There were 440 stock option exercises during the year ended 2021. There were no stock option exercises during the year ended 2022. No income tax benefits were recorded for the years ended December 31, 2021 and 2022. The Company does not expect to be able to benefit from the deduction for stock option exercises that may occur because the Company has tax loss carryforwards from prior periods that would be expected to offset any potential taxable income.

Outstanding Options

A summary of the share option activity and related information is as follows:

	Number of Options Outstanding	Weighted Average Exercise Price Per Share	Weighted Average Remaining Contractual Term (Years)	Aggregate Intrinsic Value (\$000)
Options outstanding at December 31, 2020	40,179	\$ 165.16	9.39	\$ 1,861
Granted	36,810	\$ 63.94	—	—
Exercised	(440)	\$ 50.25	—	—
Cancelled/forfeited	(3,258)	\$ 212.77	—	—
Options outstanding at December 31, 2021	73,291	\$ 112.90	8.99	\$ 189
Granted	34,822	\$ 36.16	—	—
Cancelled/forfeited	(740)	\$ 157.33	—	—
Options outstanding at December 31, 2022	107,373	\$ 87.70	8.34	\$ —
Unvested at December 31, 2022	58,197	\$ 46.40	8.92	\$ —
Vested and exercisable at December 31, 2022	49,176	\$ 136.59	7.67	\$ —

The fair value of the stock options granted is calculated using the Black-Scholes option-pricing model as prescribed by ASC 718 using the following assumptions:

	Year ended December 31, 2022	Year ended December 31, 2021
Expected term (years)	5 – 6	5 – 6
Risk free interest rate	1.370% – 3.605%	0.420% – 1.290%
Volatility	86% – 93%	95% – 102%
Expected dividend yield over expected term	0.00%	0.00%
Resulting weighted average grant date fair value	\$26.44	\$50.33

Restricted Stock Units

The Company issued 1,266 restricted stock units to employees during the year ended December 31, 2021. These restricted stock units will vest over a period of one or three years. Each restricted stock unit was valued at \$100.35 based on their fair value at the date of grant, which is equivalent to the market price of a share of the Company's common stock.

The Company issued an additional 7,911 restricted stock units during the year ended December 31, 2022. These restricted stock units will vest over a period of one year for awards granted to directors and three years for grants to employees. Each restricted stock unit was valued at \$16.65 based on their fair value at the date of grant, which is equivalent to the market price of a share of the Company's common stock. Summarized information for restricted stock units as of December 31, 2022 is as follows:

	Restricted Stock Units	Weighted Average Grant Date Value Per Share
Restricted Stock Units outstanding at December 31, 2020	1,102	\$ 169.50
Granted	1,266	100.35
Cancelled/forfeited	(1,102)	228.00
Restricted Stock Units outstanding at December 31, 2021	1,266	\$ 100.35
Granted	7,911	16.65
Restricted Stock Units outstanding at December 31, 2022	<u>9,177</u>	<u>\$ 28.20</u>
Unvested at December 31, 2022	8,017	\$ 17.75
Vested and exercisable at December 31, 2022	1,161	\$ 100.35

13. Employee Benefit Plans

(k) Pension Plan

The Company operates a defined contribution group personal pension plan for all of its UK based employees. Company contributions to the plan totaled approximately \$42,000 and \$44,000 for the years ended December 31, 2021 and 2022, respectively.

(l) 401(k) Plan

The 401(k) Plan provides for matching contributions by the Company in an amount equal to the lesser of 100% of the employee's deferral or 6% of the U.S. employee's qualifying compensation. The 401(k) Plan is intended to qualify under Section 401(k) of the Internal Revenue Code, so that contributions to the 401(k) Plan by employees or by the Company, and the investment earnings thereon, are not taxable to the employees until withdrawn. Company matching contributions are tax deductible by the Company when made. In 2022, Company employees could elect to reduce their current compensation by up to the statutorily prescribed annual limit of \$20,500 if under 50 years old and \$27,000 if over 50 years old and to have those funds contributed to the 401(k) Plan. The Company made contributions of approximately \$71,000 and \$95,000 to the 401(k) Plan for the years ended December 31, 2021 and 2022, respectively.

14. Taxes

(Loss) income from continuing operations before taxes is comprised of the following components for the years ended December 31, 2021 and 2022 (in thousands):

	Year Ended December 31,	
	2022	2021
		As restated (see Note 1)
Domestic	\$ (1,981)	\$ (1,622)
Foreign	(23,934)	(20,563)
Loss from continuing operations before taxes	<u>\$ (25,915)</u>	<u>\$ (22,185)</u>

The benefit (provision) for income taxes from continuing operations consists of the following (in thousands):

	Year Ended December 31,	
	2022	2021
		As restated (see Note 1)
Current – domestic	\$ (2)	\$ (2)
Current – foreign	4,719	3,730
Current – total	4,717	3,728
Deferred – domestic	—	—
Income tax benefit	<u>\$ 4,717</u>	<u>\$ 3,728</u>

The Company has incurred a taxable loss in each of the operating periods since incorporation. The income tax credits of \$3.7 million and \$4.7 million for the years ended December 31, 2021 and 2022, respectively, represent UK research and development (“R&D”) tax credits for expenditures in the United Kingdom that are refundable.

A reconciliation of the (benefit) provision for income taxes from continuing operations with the amount computed by applying the statutory federal tax rate to loss from continuing operations before income taxes is as follows (in thousands):

	Year Ended December 31,	
	2022	2021
		As restated (see Note 1)
Loss from continuing operations before taxes	\$ (25,915)	\$ (22,185)
Income tax expense computed at statutory federal tax rate	(5,442)	(4,659)
Disallowed expenses and non-taxable income	369	328
Loss surrendered to generate R&D credit	6,169	4,892
Additional research and development tax relief	(4,719)	(3,730)
Stock Compensation	105	—
Change in valuation allowance	2,310	15,260
Foreign items, including change in tax rates, and other	(20)	(181)
Change in UK Tax Rate	(2)	(12,831)
Other foreign items	(3,487)	(2,807)
	<u>\$ (4,717)</u>	<u>\$ (3,728)</u>

Significant components of the Company's deferred tax assets are shown below (in thousands):

	Year Ended December 31,	
	2022	2021
		As restated (see Note 1)
Net operating loss and tax credit carryforwards	\$ 53,092	\$ 56,593
Depreciation, amortization and impairment of property and equipment	61	34
Stock options	153	67
Right of use asset	(40)	(32)
Lease liability	40	32
Deferred tax assets	53,306	56,694
Valuation allowance for deferred tax assets	(53,306)	(56,694)
Net deferred tax assets	<u>\$ —</u>	<u>\$ —</u>

A valuation allowance has been established, as realization of such assets is uncertain. The Company's management evaluated the positive and negative evidence bearing upon the realizability of its deferred assets, and has determined that, at present, the Company may not be able to recognize the benefits of the deferred tax assets under the more likely than not criteria. Accordingly, a valuation allowance of approximately \$53.3 million has been established at December 31, 2022. The valuation allowance has decreased by approximately \$3.3 million in 2022.

As specified in the Tax Reform Act of 1986, due to ownership changes, the Company's ability to utilize its net operating loss ("NOL") carryforwards may be limited. Utilization of the NOLs may be subject to a substantial annual limitation under Section 382 of the Internal Revenue Code of 1986 due to ownership change limitations that have occurred previously or that could occur in the future. 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. The Company completed a Section 382 study and has concluded that an ownership change occurred on March 4, 2015 and July 21, 2017. As a result of the ownership changes, the NOLs are limited.

As of December 31, 2021 and 2022, the Company has federal NOLs of \$2.5 million and \$3.6 million, respectively. The federal NOLs have an indefinite life. As of December 31, 2021 and 2022, the Company has state NOLs of \$21.1 million and \$22.1 million, respectively, which will begin to expire in 2028. As of December 31, 2021 and 2022, the Company had foreign NOLs of \$218.3 million and \$203.0 million, respectively. The Company's foreign NOL's do not expire under UK tax law however the use of these NOLs is restricted to an annual £5 million allowance in each standalone company or group and above this allowance, there will be a 50% restriction in the profits that can be covered by losses brought forward.

Management has evaluated all significant tax positions at December 31, 2021 and 2022 and concluded that there are no material uncertain tax positions. The Company would recognize both interest and penalties related to unrecognized benefits in income tax expense. The Company has not recorded any interest and penalties on any unrecognized tax benefits since its inception.

Tax years 2018 - 2021 remain open to examination by major taxing jurisdictions to which the Company is subject, which are primarily in the United Kingdom and the United States, as carryforward attributes generated in years past may still be adjusted upon examination by the United Kingdom's H.M. Revenue & Customs, the Internal Revenue Service ("IRS") or state tax authorities. The Company is currently not under examination by the IRS or any other jurisdictions for any tax years.

We have not provided a deferred tax liability on the cumulative amount of unremitted foreign earnings of international subsidiaries because it is our intent to permanently reinvest such earnings outside of the United States.

The Company has an aggregate deficit in foreign earnings and therefore has not provided any deferred tax liability on its outside book-tax basis difference in its foreign subsidiaries and because it is also our intent to permanently reinvest any earnings outside of the United States. We would recognize this deferred tax liability if we were to experience a change in circumstances producing a change in that intention. As a result of the repeal of Section 902 foreign tax credit under the Tax Act, future distributions would not be offset by a foreign tax credit.

On December 27, 2020, the Consolidations Appropriations Act, 2021 (“CAA” or the “Act”) was signed into law and included government appropriations and additional economic stimulus. Notable provisions of the CAA included changes to the Paycheck Protection Program including legislation concluding that expenses used to obtain loan forgiveness are tax deductible, as well as extension and expansion of other COVID-19 relief programs and payroll tax credits. The Company evaluated the various aspects of the Act and did not pursue any payroll tax credits or deferrals.

On March 27, 2020, the Coronavirus Aid, Relief, and Economic Security Act (“CARES Act”) was enacted in response to the COVID-19 pandemic. The CARES Act provides for economic and cash liquidity stimulus through various means including payroll tax credits, payroll tax deferral, short term changes in tax deductibility of interest expenses among other things. The Act also permits NOL carryovers and carrybacks to offset 100% of taxable income for taxable years beginning before 2021. Previously, NOLs generated after December 31, 2017 were limited to 80% of taxable income in future years. In addition, the CARES Act allows NOLs incurred in 2018, 2019 and 2020 to be carried back to each of the five preceding taxable years to generate a refund of previously paid income taxes. The CARES Act had no material impact on the Company.

Effective for tax years beginning after December 31, 2021, taxpayers are required to capitalize any expenses incurred that are considered incidental to research and experimentation (R&E) activities under IRC Section 174. While taxpayers historically had the option of deducting these expenses under IRC Section 174, the December 2017 Tax Cuts and Jobs Act mandates capitalization and amortization of R&E expenses for tax years beginning after December 31, 2021. Expenses incurred in connection with R&E activities in the US must be amortized over a 5-year period if incurred, and R&E expenses incurred outside the US must be amortized over a 15-year period. R&E activities are broader in scope than qualified research activities that are considered under IRC Section 41 (relating to the research tax credit). For the year ended December 31, 2022, the Company performed an analysis based on available guidance and determined that the company does not have any R&E expenses in the US. The company will continue to monitor this issue for future developments, but it does not expect R&E capitalization and amortization to require it to pay cash taxes now or in the near future.

15. Net Loss Per Share

Basic and diluted net loss per share attributable to common stockholders was calculated as follows:

	Years ended December 31,			
	2022	2021		
	As restated (see Note 1)	As restated (see Note 1)		
Numerator:				
Net loss	\$ (21,198)	\$ (18,457)		
Dividend on convertible exchangeable preferred shares	(201)	(201)		
Net loss attributable to common shareholders	\$ (21,399)	\$ (18,658)		
Deemed dividend on accretion of redeemable common stock	(135)	—		
Remaining undistributed loss	(21,534)	(18,658)		
	Years ended December 31, 2022		Years ended December 31, 2021	
	Common Shareholders	Redeemable Common Shareholders	Common Shareholders	Redeemable Common Shareholders
Allocation of undistributed loss	\$ (18,872)	\$ (2,662)	\$ (18,658)	\$ -
Deemed dividend on accretion of redeemable common stock		135		-
Net loss attributable to common shareholders	(18,872)	(2,527)	(18,658)	-
Denominator:				
Weighted-average number of common shares used in loss per share – basic and diluted	657,620	92,759	595,078	-
Loss per share - basic and diluted	\$ (28.70)	\$ (27.24)	\$ (31.35)	\$ -
Distributed earnings	—	1.46	—	-
Undistributed loss	(28.70)	(28.70)	(31.35)	-
Net loss per share	<u>\$ (28.70)</u>	<u>\$ (27.24)</u>	<u>\$ (31.35)</u>	<u>\$ -</u>

Three And Six Months Ended June 30, 2022 (Unaudited)

	<u>Three Months</u>	<u>Six Months</u>
	As restated (see Note 1)	As restated (see Note 1)

Numerator:			
Net loss	\$	(4,575)	\$ (8,683)
Dividend on convertible exchangeable preferred shares		(50)	(101)
Net loss attributable to common shareholders	\$	(4,625)	\$ (8,784)
Deemed dividend on accretion of redeemable common stock		(33)	(33)
Remaining undistributed loss		(4,658)	(8,817)

	<u>Three Months Ended June 30, 2022 (Unaudited)</u>		<u>Six Months Ended June 30, 2022 (Unaudited)</u>	
	Common Shareholders	Redeemable Common Shareholders	Common Shareholders	Redeemable Common Shareholders
Allocation of undistributed loss	\$ (4,646)	\$ (12)	\$ (8,805)	\$ (12)
Deemed dividend on accretion of redeemable common stock		33		33
Net loss attributable to common shareholders	(4,646)	21	(8,805)	21
Denominator:				
Weighted-average number of common shares used in loss per share – basic and diluted	673,964	1,775	670,108	892
Loss per share - basic and diluted	\$ (6.89)	\$ 11.70	\$ (13.14)	\$ 23.84
Distributed earnings	—	18.59	—	36.98
Undistributed loss	(6.89)	(6.89)	(13.14)	(13.14)
Net loss per share	<u>\$ (6.89)</u>	<u>\$ 11.70</u>	<u>\$ (13.14)</u>	<u>\$ 23.84</u>

Three And Nine Months Ended September 30, 2022 (Unaudited)

	Three Months		Nine Months	
	As restated (see Note 1)		As restated (see Note 1)	
Numerator:				
Net loss	\$	(5,096)	\$	(13,779)
Dividend on convertible exchangeable preferred shares		(50)		(151)
Net loss attributable to common shareholders	\$	(5,146)	\$	(13,930)
Deemed dividend on accretion of redeemable common stock		(102)		(135)
Remaining undistributed loss		(5,248)		(14,065)

	Three Months Ended September 30, 2022 (Unaudited)		Nine Months Ended September 30, 2022 (Unaudited)	
	Common Shareholders	Redeemable Common Shareholders	Common Shareholders	Redeemable Common Shareholders
Allocation of undistributed loss	\$ (4,235)	\$ (1,013)	\$ (13,040)	\$ (1,025)
Deemed dividend on accretion of redeemable common stock		102		135
Net loss attributable to common shareholders	(4,235)	(911)	(13,040)	(890)
Denominator:				
Weighted-average number of common shares used in loss per share – basic and diluted	662,530	158,448	667,554	53,988
Loss per share - basic and diluted	\$ (6.39)	\$ (5.75)	\$ (19.53)	\$ (16.48)
Distributed earnings	—	0.64	—	2.50
Undistributed loss	(6.39)	(6.39)	(19.53)	(18.98)
Net loss per share	\$ (6.39)	\$ (5.75)	\$ (19.53)	\$ (16.48)

Potential dilutive securities have been excluded from the computation of diluted net loss per share as the effect would be to reduce the net loss per share. Therefore, the weighted average number of common shares outstanding used to calculate both basic and diluted net loss per share attributable to common stockholders is the same. The Company excluded the following potential common shares, presented based on amounts outstanding at each period end, from the computation of diluted net loss per share attributable to common stockholders for the periods indicated because including them would have had an anti-dilutive effect:

	December 31, 2022	December 31, 2021
Stock options	107,373	73,290
Restricted Stock Units	9,177	1,266
6% convertible exchangeable preferred stock	6	6
Series A preferred stock	440	440
Series B preferred stock	79,248	79,248
Common stock warrants	215,625	215,625
Total shares excluded from calculation	411,869	369,875

16. Geographic Information

Geographic information for the years ended December 31, 2021 and 2022 is as follows (in thousands):

	Year Ended December 31,	
	2022	2021 As restated (see Note 1)
Revenue		
United Kingdom	\$ —	\$ —
Total Revenue	\$ —	\$ —
Net loss		
United States	\$ (1,983)	\$ (1,624)
United Kingdom	(19,215)	(16,833)
Total Net Loss	\$ (21,198)	\$ (18,457)

	December 31,	
	2022 As restated (see Note 1)	2021 As restated (see Note 1)
Total Assets		
United States	\$ 18,220	\$ 36,144
United Kingdom	9,830	6,992
Total Assets	\$ 28,050	\$ 43,136
Long Lived Assets, net		
United States	\$ —	\$ —
United Kingdom	32	64
Total Long Lived Assets, net	\$ 32	\$ 64

17. Restatement of Quarterly Financial Information (Restated and Unaudited)

In connection with the restatement explained in Note 1 — “Restatement of Prior Financial Information”, the Company has restated herein its consolidated financial statements at September 30, 2021, March 31, 2022, June 30, 2022, and September 30, 2022 and for each of the three months ended September 30, 2021, March 31, 2022, June 30, 2022, September 30, 2022, and for the six months ended June 30, 2022, and for each of the nine months ended September 30, 2021 and September 30, 2022, in accordance with ASC Topic 250, Accounting Changes and Error Corrections.

The effect of the error corrections are as follows (in thousands, except per share amounts):

	(Unaudited)		
	March 31, 2022		March 31, 2022
CONSOLIDATED BALANCE SHEETS	As previously reported	Adjustments	As Restated
ASSETS			
Non-current deposits	\$ 2,980	\$ 549	\$ 3,529
Total assets	<u>\$ 39,629</u>	<u>\$ 549</u>	<u>\$ 40,178</u>
LIABILITIES AND STOCKHOLDERS' EQUITY			
Accrued and other current liabilities	\$ 3,354	\$ 119	\$ 3,473
Total current liabilities	6,204	119	6,323
Total liabilities	<u>\$ 6,219</u>	<u>\$ 119</u>	<u>\$ 6,338</u>
Accumulated deficit	(389,067)	430	(388,637)
Total stockholders' equity	33,410	430	33,840
Total liabilities and stockholders' equity	<u>\$ 39,629</u>	<u>\$ 549</u>	<u>\$ 40,178</u>

	(Unaudited)		
	Three Months Ended March 31,		
	2022		2022
CONSOLIDATED STATEMENTS OF STOCKHOLDERS EQUITY	As previously reported	Adjustments	As Restated
Accumulated Deficit (Balances at March 31, 2022)	\$ (389,067)	\$ 430	\$ (388,637)
Total Stockholders' Equity (Balances at March 31, 2022)	<u>\$ 33,410</u>	<u>\$ 430</u>	<u>\$ 33,840</u>

	(Unaudited)		
	June 30, 2022		June 30, 2022
CONSOLIDATED BALANCE SHEETS	As previously reported	Adjustments	As Restated
ASSETS			
Non-current deposits	\$ 3,060	\$ 549	\$ 3,609
Total assets	<u>\$ 35,346</u>	<u>\$ 549</u>	<u>\$ 35,895</u>
LIABILITIES AND STOCKHOLDERS' EQUITY			
Accrued and other current liabilities	\$ 2,821	\$ 119	\$ 2,940
Total current liabilities	5,026	119	5,145
Total liabilities	<u>\$ 5,139</u>	<u>\$ 119</u>	<u>\$ 5,258</u>
Temporary Equity	—	1,105	1,105
Common Stock	1	(0)	1
Additional paid-in capital	425,124	(1,105)	424,019
Accumulated deficit	(393,642)	430	(393,212)
Total stockholders' equity	30,207	(675)	29,532
Total liabilities and stockholders' equity	<u>\$ 35,346</u>	<u>\$ 549</u>	<u>\$ 35,895</u>

CONSOLIDATED STATEMENTS OF INCOME	(Unaudited)					
	Three Months Ended June 30,			Six Months Ended June 30,		
	2022		2022	2022		2022
	As previously reported	Adjustments	As Restated	As previously reported	Adjustments	As Restated
Net loss applicable to common shareholders	\$ (4,625)	\$ —	(4,625)	\$ (8,784)	—	(8,784)
Basic and diluted earnings per common share:						
Net Loss per share - basic and diluted (common shareholders)	\$ (6.89)	\$ —	(6.89)	\$ (13.09)	\$ (0.05)	(13.14)
Net Income (Loss) per share - basic and diluted (redeemable common shareholders)	\$ —	\$ 11.70	11.70	\$ —	\$ 23.84	23.84

CONSOLIDATED STATEMENTS OF STOCKHOLDERS EQUITY	(Unaudited)		
	Three Months And Six Months Ended June 30,		
	2022	2022	2022
	As previously reported	Adjustments	As Restated
Accumulated Deficit (Balances at December 31, 2021)	\$ (384,959)	\$ 430	\$ (384,529)
Total Stockholders' Equity (Balances at December 31, 2021)	37,263	430	37,693
Accumulated Deficit (Balances at March 31, 2022)	\$ (389,067)	\$ 430	\$ (388,637)
Total Stockholders' Equity (Balances at March 31, 2022)	33,410	430	33,840
Common Stock Par Value (Reclassification of redeemable common stock)	—	(0)	(0)
Common Stock (Balances at June 30, 2022)	\$ 1	\$ (0)	\$ 1
Additional Paid-In Capital (Reclassification of redeemable common stock)	—	(1,072)	(1,072)
Additional Paid-In Capital (Accretion of redeemable common stock)	—	(33)	(33)
Additional Paid-In Capital (Balances at June 30, 2022)	\$ 425,124	\$ (1,105)	\$ 424,019
Accumulated Deficit (Balances at June 30, 2022)	\$ (393,642)	\$ 430	\$ (393,212)
Total Stockholders' Equity (Balances at June 30, 2022)	\$ 30,207	\$ (675)	\$ 29,532
Common Stock No. Shares (Reclassification of redeemable common stock)	—	(53,213)	(53,213)
Common Stock No. Shares (Balance at June 30, 2022)	756,686	(53,213)	703,473

CONSOLIDATED BALANCE SHEETS	(Unaudited)		
	September 30, 2022		September 30, 2022
	As previously reported	Adjustments	As Restated
ASSETS			
Non-current deposits	\$ 2,916	\$ 549	\$ 3,465
Total assets	\$ 31,021	\$ 549	\$ 31,570
LIABILITIES AND STOCKHOLDERS' EQUITY			
Accrued and other current liabilities	\$ 3,370	\$ 119	\$ 3,489
Total current liabilities	4,353	119	4,472
Total liabilities	\$ 4,460	\$ 119	\$ 4,579
Accumulated deficit	(398,738)	430	(398,308)
Total stockholders' equity	22,067	430	22,497
Total liabilities and stockholders' equity	\$ 31,021	\$ 549	\$ 31,570

CONSOLIDATED STATEMENTS OF INCOME	(Unaudited)					
	Three Months Ended September 30, 2022			Nine Months Ended September 30, 2022		
	As previously reported	Adjustments	As Restated	As previously reported	Adjustments	As Restated
Net loss applicable to common shareholders	\$ (5,146)	\$ —	\$ (5,146)	\$ (13,930)	\$ —	\$ (13,930)
Basic and diluted earnings per common share:						
Net Loss per share - basic and diluted (common shareholders)	\$ (6.27)	\$ (0.12)	\$ (6.39)	\$ (19.31)	\$ (0.22)	\$ (19.53)
Net Loss per share - basic and diluted (redeemable common shareholders)	\$ —	\$ (5.75)	\$ (5.75)	\$ —	\$ (16.48)	\$ (16.48)

	(Unaudited)		
	Three And Nine Months Ended September 30,		
	2022		2022
CONSOLIDATED STATEMENTS OF STOCKHOLDERS EQUITY	As previously reported	Adjustments	As Restated
Accumulated Deficit (Balances at December 31, 2021)	\$ (384,959)	\$ 430	\$ (384,529)
Total Stockholders' Equity (Balances at December 31, 2021)	\$ 37,263	\$ 430	\$ 37,693
Accumulated Deficit (Balances at March 31, 2022)	(389,067)	430	(388,637)
Total Stockholders' Equity (Balances at March 31, 2022)	\$ 33,410	\$ 430	\$ 33,840
Common Stock (Reclassification of redeemable common stock)	—	(0)	(0)
Common Stock (Balances at June 30, 2022)	\$ 1	\$ (0)	\$ 1
Additional Paid-In Capital (Reclassification of redeemable common stock)	—	(1,072)	(1,072)
Additional Paid-In Capital (Accretion of redeemable common stock)	—	(33)	(33)
Additional Paid-In Capital (Balances at June 30, 2022)	\$ 425,124	\$ (1,105)	\$ 424,019
Accumulated Deficit (Balances at June 30, 2022)	\$ (393,642)	\$ 430	\$ (393,212)
Total Stockholders' Equity (Balances at June 30, 2022)	\$ 30,207	\$ (675)	\$ 29,532
Common Stock (Reclassification of redeemable common stock)	0	(0)	—
Common Stock (Reclassification of redeemable common stock)	(0)	0	(0)
Common Stock (Reclassification of redeemable common stock)	—	(0)	(0)
Common Stock (Balances at September 30, 2022)	\$ 1	\$ —	\$ 1
Additional Paid-In Capital (Issue of common stock At Market, net of expenses)	1,582	(1,582)	—
Additional Paid-In Capital (Reclassification of redeemable common stock)	(4,494)	2,789	(1,705)
Additional Paid-In Capital (Accretion of redeemable common stock)	—	(103)	(103)
Additional Paid-In Capital (Balances at September 30, 2022)	\$ 422,550	\$ 1,104	\$ 422,550
Accumulated Deficit (Balances at September 30, 2022)	\$ (398,738)	\$ 430	\$ (398,308)
Total Stockholders' Equity (Balances at September 30, 2022)	\$ 22,067	\$ 430	\$ 22,497
Common Stock No. Shares (Reclassification of redeemable common stock)	—	(53,213)	(53,213)
Common Stock No. Shares (Issue of AT Market common stock)	79,260	(79,260)	—
Common Stock No. Shares (Reclassification of redeemable common stock)	(207,807)	132,473	(75,334)
Common Stock No. Shares (Balance at September 30, 2022)	628,139	—	628,139

CONSOLIDATED BALANCE SHEETS	(Unaudited)		
	September 30, 2021		September 30, 2021
	As previously reported	Adjustments	As Restated
ASSETS			
Non-current deposits	\$ 1,509	\$ 294	\$ 1,803
Total assets	\$ 44,999	\$ 294	\$ 45,293
LIABILITIES AND STOCKHOLDERS' EQUITY			
Accrued and other current liabilities	\$ 2,076	\$ 64	\$ 2,140
Total current liabilities	3,591	64	3,655
Total liabilities	\$ 3,635	\$ 64	\$ 3,699
Accumulated deficit	(379,664)	230	(379,434)
Total stockholders' equity	41,364	230	41,594
Total liabilities and stockholders' equity	\$ 44,999	\$ 294	\$ 45,293

CONSOLIDATED STATEMENTS OF INCOME	(Unaudited)					
	Three Months Ended September 30, 2021			Nine Months Ended September 30, 2021		
	As previously reported	Adjustments	As Restated	As previously reported	Adjustments	As Restated
Operating expenses:						
Research and development	\$ 4,217	\$ (294)	\$ 3,923	\$ 10,884	\$ (294)	\$ 10,590
Total operating expenses	5,998	(294)	5,704	16,404	(294)	16,110
Operating loss	(5,998)	294	(5,704)	(16,404)	294	(16,110)
Loss before taxes	(5,985)	294	(5,691)	(16,243)	294	(15,949)
Income tax benefit	998	(64)	934	2,650	(64)	2,586
Net loss	(4,987)	230	(4,757)	(13,593)	230	(13,363)
Net loss applicable to common shareholders	\$ (5,037)	\$ 230	\$ (4,807)	\$ (13,744)	\$ 230	\$ (13,514)
Basic and diluted earnings per common share:						
Net loss per share – basic and diluted	\$ (8.07)	\$ 0.37	\$ (7.70)	\$ (24.04)	\$ 0.40	\$ (23.64)

CONSOLIDATED STATEMENTS OF COMPREHENSIVE LOSS	(Unaudited)					
	Three Months Ended September 30,			Nine Months Ended September 30,		
	2021		2021	2021		2021
	As previously reported	Adjustments	As Restated	As previously reported	Adjustments	As Restated
Net loss	\$ (4,987)	\$ 230	\$ (4,757)	\$ (13,593)	\$ 230	\$ (13,363)
Comprehensive loss	\$ (5,082)	\$ 230	\$ (4,852)	\$ (13,600)	\$ 230	\$ (13,370)

CONSOLIDATED STATEMENTS OF STOCKHOLDERS EQUITY	(Unaudited)					
	Three Months Ended September 30,			Nine Months Ended September 30,		
	2021		2021	2021		2021
	As previously reported	Adjustments	As Restated	As previously reported	Adjustments	As Restated
Accumulated Deficit (Loss for the period)	\$ (4,987)	\$ 230	\$ (4,757)	\$ (13,593)	\$ 230	\$ (13,363)
Accumulated Deficit (Balances at September 30, 2021)	\$ (379,664)	\$ 230	\$ (379,434)	\$ (379,664)	\$ 230	\$ (379,434)
Total Stockholders' Equity (Balances at September 30, 2021)	\$ 41,364	\$ 230	\$ 41,594	\$ 41,364	\$ 230	\$ 41,594

CONSOLIDATED STATEMENTS OF CASH FLOWS	(Unaudited)					
	Three Months Ended September 30,			Nine Months Ended September 30,		
	2021		2021	2021		2021
	As previously reported	Adjustments	As Restated	As previously reported	Adjustments	As Restated
Operating activities:						
Net loss	\$ (13,593)	\$ 230	\$ (13,363)	\$ (13,593)	\$ 230	\$ (13,363)
Changes in operating assets and liabilities:						
Prepaid expenses and other assets	(2,655)	294	(2,361)	(2,655)	294	(2,361)
Accounts payable, accrued and other current liabilities	1,195	64	1,259	1,195	64	1,259

With respect to the consolidated statements of cash flows for 2022 and 2021, all adjustments are to line items within operating cash flows and there was no impact to the subtotal of operating, investing or financing cash flows for such periods.

Section 1.02 18. Subsequent Events

Dividends on 6% Preferred Stock

On December 6, 2022, the Board of Directors declared a quarterly cash dividend in the amount of \$0.15 per share on the Company's Preferred Stock. The cash dividend was paid on February 1, 2023 to the holders of record of the Preferred Stock as of the close of business on January 13, 2023.

Reverse Stock Split

On December 15, 2023, the Company filed a certificate of amendment to its amended and restated certificate of incorporation with the Secretary of State of the State of Delaware to effect a 1-for-15 reverse stock split of the Company's shares of common stock. The reverse stock split, which was unanimously approved by the Company's board of directors, was approved by the Company's stockholders at a special meeting of stockholders held on December 8, 2023.

As a result of the reverse stock split, every fifteen (15) shares of the Company's outstanding common stock before effectiveness of the reverse stock split was combined and reclassified into one (1) share of common stock. Proportionate voting rights and other rights of common stock holders were not affected by the reverse stock split. Stockholders who would otherwise hold a fractional share of common stock were entitled to receive payment in cash in lieu of any such resulting fractional shares of common stock as the post-reverse split amounts of common stock were rounded down to the nearest full share. Such cash payment in lieu of a fractional share of common stock was calculated by multiplying such fractional interest in one share of common stock by the closing trading price of the Company's common stock on the trading day immediately preceding the effective date of the reverse stock split, and rounded to the nearest cent. No fractional shares were issued in connection with the reverse stock split.



**CYCLACEL PHARMACEUTICALS, INC.
411,969 SHARES OF COMMON STOCK
ISSUABLE UPON EXERCISE OF OUTSTANDING WARRANTS**

PROSPECTUS

_____, 2024

PART II INFORMATION NOT REQUIRED IN PROSPECTUS

Item 13 Other Expenses of Issuance and Distribution.

The following table sets forth the costs and expenses, payable by the Company in connection with the registration and sale of the common stock being registered. All amounts are estimates except the SEC registration fee.

	Amount to be paid (\$)
SEC registration fee	\$ 132
Legal fees and expenses	25,000
Other	6,000
Accounting fees and expenses	18,000
Total	\$ 49,132

Item 14. Indemnification of Directors and Officers.

Our amended and restated certificate of incorporation, as amended, and amended and restated bylaws, as amended, provide that each person who was or is made a party or is threatened to be made a party to or is otherwise involved (including, without limitation, as a witness) in any action, suit or proceeding, whether civil, criminal, administrative or investigative, by reason of the fact that he or she is or was a director or an officer of Cyclacel Pharmaceuticals, Inc. or is or was serving at our request as a director, officer, or trustee of another corporation, or of a partnership, joint venture, trust or other enterprise, including service with respect to an employee benefit plan, whether the basis of such proceeding is alleged action in an official capacity as a director, officer or trustee or in any other capacity while serving as a director, officer or trustee, shall be indemnified and held harmless by us to the fullest extent authorized by the Delaware General Corporation Law against all expense, liability and loss (including attorneys' fees, judgments, fines, ERISA excise taxes or penalties and amounts paid in settlement) reasonably incurred or suffered by such.

Section 145 of the Delaware General Corporation Law permits a corporation to indemnify any director or officer of the corporation against expenses (including attorney's fees), judgments, fines and amounts paid in settlement actually and reasonably incurred in connection with any action, suit or proceeding brought by reason of the fact that such person is or was a director or officer of the corporation, if such person acted in good faith and in a manner that he reasonably believed to be in, or not opposed to, the best interests of the corporation, and, with respect to any criminal action or proceeding, if he or she had no reason to believe his or her conduct was unlawful. In a derivative action, (*i.e.*, one brought by or on behalf of the corporation), indemnification may be provided only for expenses actually and reasonably incurred by any director or officer in connection with the defense or settlement of such an action or suit if such person acted in good faith and in a manner that he or she reasonably believed to be in, or not opposed to, the best interests of the corporation, except that no indemnification shall be provided if such person shall have been adjudged to be liable to the corporation, unless and only to the extent that the court in which the action or suit was brought shall determine that the defendant is fairly and reasonably entitled to indemnity for such expenses despite such adjudication of liability.

Pursuant to Section 102(b)(7) of the Delaware General Corporation Law, our amended and restated certificate of incorporation eliminates the liability of a director to us or our stockholders for monetary damages for such a breach of fiduciary duty as a director, except for liabilities arising:

- from any breach of the director's duty of loyalty to us or our stockholders;
- from acts or omissions not in good faith or which involve intentional misconduct or a knowing violation of law;
- under Section 174 of the Delaware General Corporation Law; or
- from any transaction from which the director derived an improper personal benefit.

We carry insurance policies insuring our directors and officers against certain liabilities that they may incur in their capacity as directors and officers.

We have entered into indemnification agreements with each of our directors and executive officers. Pursuant to the indemnification agreements, agree to hold harmless and indemnify our directors and executive officers to the fullest extent authorized or permitted by the provisions of our amended and restated certificate of incorporation, amended and restated by-laws and the DGCL, including for any amounts that such director or officer becomes obligated to pay because of any claim to which such director or officer is made or threatened to be made a party, witness or participant, by reason of such director's or officer's service as a director, officer, employee or other agent.

There are certain exceptions from our obligation to indemnify our directors and executive officers pursuant to the indemnification agreements, including for "short-swing" profit claims under Section 16(b) of the Exchange Act losses that are as a result of conduct that is established by a final judgment as knowingly fraudulent or deliberately dishonest or that constituted willful misconduct, or that constituted a breach of the duty of loyalty to us or resulted in any improper personal profit or advantage, where payment is actually made to a director or officer under an insurance policy, indemnity clause, bylaw or agreement, except in respect of any excess beyond payment under such insurance, clause, bylaw or agreement, for indemnification which is not lawful, or in connection with any proceeding initiated by such director or officer, or any proceeding against us or our directors, officers, employees or other agents, unless (i) such indemnification is expressly required to be made by law, (ii) the proceeding was authorized by our board of directors, (iii) such indemnification is provided by us, in our sole discretion, pursuant to the powers vested in us under the DGCL, or (iv) the proceeding is initiated to enforce a claim for indemnification pursuant to the indemnification agreement.

All of our agreements and obligations contained in the indemnification agreements shall continue during the period when the director or officer who is a party to an indemnification agreement is our director, officer, employee or other agent (or is or is serving at our request as a director, officer, employee or other agent of another corporation, partnership, joint venture, trust, employee benefit plan or other enterprise) and shall continue thereafter so long as such director or officer shall be subject to any possible claim or threatened, pending or completed action, suit or proceeding, whether civil, criminal, arbitral, administrative or investigative. In addition, the indemnification agreements provide for partial indemnification and advance of expenses.

Insofar as indemnification for liabilities arising under the Securities Act may be permitted to our directors, officers or controlling persons pursuant to the foregoing provisions, or otherwise, we have been advised that in the opinion of the Commission this indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable.

Item 15. Recent Sales of Unregistered Securities

On December 21, 2023, we entered into a Securities Purchase Agreement with certain institutional investors to issue unregistered warrants ("Private Warrants") to purchase up to 388,200 shares of our common stock. Each Private Warrant has an exercise price of \$3.19 per share, was exercisable immediately following its original issuance and will expire seven years from the original issuance date. The Private Warrants were sold in a private placement exempt from registration pursuant to Section 4(a)(2) and/or Rule 506 of the Securities Act. The offering closed on December 26, 2023. The gross proceeds were approximately \$1.29 million before deducting the placement agent fees and other offering expenses. The placement agent also received warrants that have substantially the same terms as the Private Warrants to purchase that number of shares of our common stock equal to an aggregate of 23,769 shares of our common stock at an exercise price of \$4.14375 per share (the "Placement Agent Warrants"). The shares of common stock issuable upon the exercise of these Private Warrants and Placement Agent Warrants are being registered for resale by the selling security holders pursuant to this prospectus.

Additionally, in a separate concurrent insider private placement, we also sold to certain of our officers 7,956 shares of our common stock and Private Warrants to purchase up to an aggregate of 7,956 shares of our common stock, at a combined purchase price of \$3.315 per share of common stock and accompanying Private Warrant.

Item 16. Exhibits and Financial Statement Schedules.

(a) The exhibits listed below are filed as part of or incorporated by reference into this Registration Statement on Form S-1. Where certain exhibits are incorporated by reference from a previous filing, the exhibit numbers and previous filings are identified in parentheses.

Exhibit Number	Description
<u>1.1</u>	<u>Underwriting Agreement, dated March 12, 2021, by and between Cyclacel Pharmaceuticals, Inc. and Oppenheimer & Co. Inc. (previously filed as Exhibit 1.1 to the Registrant's Current Report on Form 8-K, originally filed with the SEC on March 15, 2021, and incorporated herein by reference).</u>
<u>1.2</u>	<u>Controlled Equity Offering Sales Agreement, dated as of August 12, 2021, by and among Cyclacel Pharmaceuticals, Inc. and Cantor Fitzgerald & Co. (previously filed as Exhibit 1.1 to the Registrant's Quarterly Report on Form 10-Q, originally filed with the SEC on August 12, 2021 and incorporated herein by reference).</u>
<u>3.1</u>	<u>Amended and Restated Certificate of Incorporation of Cyclacel Pharmaceuticals, Inc. (previously filed as Exhibit 3.1 to the Registrant's Annual Report on Form 10-K, originally filed with the SEC on April 1, 2013, and incorporated herein by reference).</u>
<u>3.2</u>	<u>Certificate of Amendment to the Amended and Restated Certificate of Incorporation of Cyclacel Pharmaceuticals, Inc. (previously filed as Exhibit 3.1 to the Registrant's Current Report on Form 8-K, originally filed with the SEC on May 27, 2016, and incorporated herein by reference).</u>
<u>3.3</u>	<u>Certificate of Amendment to the Amended and Restated Certificate of Incorporation of Cyclacel Pharmaceuticals, Inc. (previously filed as Exhibit 3.1 to the Registrant's Current Report on Form 8-K, originally filed with the SEC on April 14, 2020, and incorporated herein by reference).</u>
<u>3.4**</u>	<u>Certificate of Amendment to the Amended and Restated Certificate of Incorporation of Cyclacel Pharmaceuticals, Inc.</u>
<u>3.5**</u>	<u>Certificate of Correction to Certificate of Amendment to the Amended and Restated Certificate of Incorporation of Cyclacel Pharmaceuticals, Inc.</u>
<u>3.6</u>	<u>Amended and Restated Bylaws of Cyclacel Pharmaceuticals, Inc. (previously filed as Exhibit 3.2 to the Registrant's Annual Report on Form 10-K, File No. 000-50626, originally filed with the SEC on March 31, 2011 and incorporated herein by reference).</u>
<u>3.6</u>	<u>Second Amended and Restate Bylaws of Cyclacel Pharmaceuticals, Inc. (previously filed as Exhibit 3.1 to the Registrant's Current Report on Form 8-K, originally filed with the SEC on May 7, 2020, and incorporated herein by reference).</u>
<u>3.7</u>	<u>Amendment No. 1 to the Second Amended and Restated Bylaws of Cyclacel Pharmaceuticals, Inc. (previously filed as Exhibit 3.1 to the Registrant's Current Report on Form 8-K, originally filed with the SEC on November 7, 2023, and incorporated herein by reference).</u>
<u>3.8</u>	<u>Certificate of Designation of 6% Convertible Exchangeable Preferred Stock (previously filed as Exhibit 3.2 to the Registrant's Current Report on Form 8-K, originally filed with the SEC on November 5, 2004, and incorporated herein by reference).</u>
<u>3.9</u>	<u>Certificate of Designation of Series A Preferred Stock (previously filed as Exhibit 3.5 to the Registrant's Registration Statement on Form S-1 (No. 333-218305), originally filed with the SEC on July 17, 2017, and incorporated herein by reference).</u>
<u>3.10</u>	<u>Certificate of Designation of Preferences, Rights and Limitations of the Series B Convertible Preferred Stock (previously filed as Exhibit 3.1 to the Registrant's Current Report on Form 8-K, originally filed with the SEC on December 22, 2020, and incorporated herein by reference).</u>
<u>4.1</u>	<u>Specimen of Common Stock Certificate (previously filed as Exhibit 4.1 to Registrant's Registration Statement on Form S-1, File No. 333-109653, originally filed with the SEC on February 17, 2004, as subsequently amended, and incorporated herein by reference).</u>

- [4.2](#) [Specimen of Preferred Stock Certificate of Designation \(previously filed as Exhibit 3.2 to Registrant’s Registration Statement on Form S-1, File No. 333-119585, originally filed with the SEC on October 21, 2004, as subsequently amended, and incorporated herein by reference\).](#)
- [4.3](#) [Form of Warrant to purchase shares of Cyclacel Pharmaceuticals, Inc. Common Stock \(previously filed as Exhibit 4.1 to the Registrant’s Current Report on Form 8-K, originally filed with the SEC on July 1, 2011, and incorporated herein by reference\).](#)
- [4.4](#) [Registration Rights Agreement, dated as of December 14, 2012, by and between the Company and Aspire Capital Fund, LLC \(previously filed as Exhibit 4.1 to the Registrant’s Current Report on Form 8-K, originally filed with the SEC on December 17, 2012, and incorporated herein by reference\).](#)
- [4.5](#) [Registration Rights Agreement, dated November 14, 2013, by and between the Company and Aspire Capital Fund, LLC \(previously filed as Exhibit 4.1 to the Registrant’s Quarterly Report on Form 10-Q, originally filed with the SEC on November 14, 2013, and incorporated herein by reference\).](#)
- [4.6](#) [Form of Warrant to purchase shares of Cyclacel Pharmaceuticals, Inc.’s Common Stock \(previously filed as Exhibit 4.3 to the Registrant’s Registration Statement on Form S-1 \(No. 333-218305\), originally filed with the SEC on July 17, 2017, and incorporated herein by reference\).](#)
- [4.7](#) [Form of Pre-Funded Warrant \(previously filed as Exhibit 4.1 to the Registrant’s Current Report on Form 8-K, originally filed with the SEC on April 24, 2020, and incorporated herein by reference\).](#)
- [4.8](#) [Form of Common Warrant \(previously filed as Exhibit 4.1 to the Registrant’s Current Report on Form 8-K, originally filed with the SEC on April 24, 2020, and incorporated herein by reference\).](#)
- [4.9](#) [Form of Warrant \(previously filed as Exhibit 4.1 to the Registrant’s Current Report on Form 8-K, originally filed with the SEC on December 22, 2020, and incorporated herein by reference\).](#)
- [4.10](#) [Form of Pre-Funded Common Stock Purchase Warrant \(previously filed as Exhibit 4.1 to the Registrant’s Current Report on Form 8-K, originally filed with the SEC on December 26, 2023, and incorporated herein by reference\).](#)
- [4.11](#) [Form of Common Stock Purchase Warrant \(previously filed as Exhibit 4.2 to the Registrant’s Current Report on Form 8-K, originally filed with the SEC on December 26, 2023, and incorporated herein by reference\).](#)
- [5.1**](#) [Opinion of Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C.](#)
- [10.1†](#) [Amended and Restated 2006 Equity Incentive Plan \(previously filed as Exhibit 10.1 to Registrant’s Current Report on Form 8-K, originally filed with the SEC on May 24, 2012, and incorporated herein by reference\).](#)
- [10.2†](#) [2015 Equity Incentive Plan \(previously filed as Exhibit 10.1 to Registrant’s Current Report on Form 8-K, originally filed with the SEC on May 22, 2015, and incorporated herein by reference\).](#)
- [10.3†](#) [Amended and Restated 2018 Equity Incentive Plan \(previously filed as Exhibit 10.1 to Registrant’s Current Report on Form 8-K, originally filed with the SEC on June 16, 2022, and incorporated herein by reference\).](#)
- [10.4†](#) [Amended and Restated 2018 Equity Incentive Plan \(previously filed as Exhibit 10.1 to Registrant’s Current Report on Form 8-K, originally filed with the SEC on June 14, 2023, and incorporated herein by reference\).](#)
- [10.5†](#) [Form of Change in Control Agreement by and between Cyclacel Pharmaceuticals, Inc. and Dr. Judy Chiao, dated as of December 10, 2010 \(previously filed as Exhibit 10.1 to the Registrant’s Current Report on Form 8-K, originally filed with the SEC on December 14, 2010, and incorporated herein by reference\).](#)
- [10.6#](#) [License Agreement by and between Sankyo Co., Ltd. and Cyclacel Limited, dated September 10, 2003, and letter amendments dated April 1, 2004 and April 28, 2004 \(previously filed as Exhibit 10.1 to the Registrant’s Quarterly Report on Form 10-Q, for the quarterly period ended June 30, 2011, originally filed with the SEC on August 12, 2011, and incorporated herein by reference\).](#)

<u>10.7#</u>	<u>Amendment No. 4 to License Agreement between Daiichi Sankyo Company, Limited and Cyclacel Limited, dated July 11, 2011 (previously filed as Exhibit 10.2 to the Registrant's Quarterly Report on Form 10-Q, for the quarterly period ended June 30, 2011, originally filed with the SEC on August 12, 2011, and incorporated herein by reference).</u>
<u>10.8#</u>	<u>Clinical Collaboration Agreement by and between Cyclacel Pharmaceuticals, Inc. and the University of Texas M.D. Anderson Cancer Center dated as of August 21, 2018 (previously filed as Exhibit 10.1 to the Registrant's Quarterly Report on Form 10-Q for the quarterly period ended September 30, 2018 and incorporated herein by reference).</u>
<u>10.9</u>	<u>Cyclacel Pharmaceuticals, Inc. 2020 Inducement Equity Incentive Plan (previously filed as Exhibit 10.1 to the Registrant's Current Report on Form 8-K, originally filed with the SEC on November 12, 2020, and incorporated herein by reference).</u>
<u>10.10</u>	<u>Form of Stock Option Grant Notice and Stock Option Agreement under the Cyclacel Pharmaceuticals, Inc. 2020 Inducement Equity Incentive Plan (previously filed as Exhibit 10.2 to the Registrant's Current Report on Form 8-K, originally filed with the SEC on November 12, 2020, and incorporated herein by reference).</u>
<u>10.11</u>	<u>Form of Securities Purchase Agreement (previously filed as Exhibit 10.1 to the Registrant's Current Report on Form 8-K, originally filed with the SEC on December 22, 2020, and incorporated herein by reference).</u>
<u>10.12</u>	<u>Form of Retirement Agreement, by and between Cyclacel Pharmaceuticals, Inc. and Judy H. Chiao, MD (previously filed as Exhibit 10.1 to the Registrant's Current Report on Form 8-K, originally filed with the SEC on February 24, 2021 and incorporated herein by reference).</u>
<u>10.13†</u>	<u>Employment Agreement between Cyclacel Pharmaceuticals, Inc. and Spiro Rombotis (previously filed as Exhibit 10.1 to the Registrant's Current Report on Form 8-K, originally filed with the SEC on May 4, 2023, and incorporated herein by reference).</u>
<u>10.14†</u>	<u>Employment Agreement between Cyclacel Pharmaceuticals, Inc. and Paul McBarron (previously filed as Exhibit 10.2 to the Registrant's Current Report on Form 8-K, originally filed with the SEC on May 4, 2023, and incorporated herein by reference).</u>
<u>10.15</u>	<u>Form of Indemnification Agreement for directors (previously filed as Exhibit 10.16 to the Registrant's Annual Report on Form 10-K/A, originally filed with the SEC on November 29, 2023, and incorporated herein by reference).</u>
<u>10.16</u>	<u>Placement Agency Agreement by and between the Company and Ladenburg Thalmann & Co. Inc., dated December 21, 2023 (previously filed as Exhibit 10.1 to the Registrant's Current Report on Form 8-K, originally filed with the SEC on December 26, 2023, and incorporated herein by reference).</u>
<u>10.17</u>	<u>Securities Purchase Agreement, dated December 21, 2023, by and among the Company and the Purchasers (previously filed as Exhibit 10.2 to the Registrant's Current Report on Form 8-K, originally filed with the SEC on December 26, 2023, and incorporated herein by reference).</u>
<u>10.18</u>	<u>Securities Purchase Agreement, dated December 21, 2023, by and among the Company and Spiro Rombotis and Paul McBarron (previously filed as Exhibit 10.3 to the Registrant's Current Report on Form 8-K, originally filed with the SEC on December 26, 2023, and incorporated herein by reference).</u>
<u>21</u>	<u>Subsidiaries of Cyclacel Pharmaceuticals, Inc. (previously filed as Exhibit 21 to the Registrant's Annual Report on Form 10-K, originally filed with the SEC on March 26, 2014, and incorporated herein by reference).</u>
<u>23.1*</u>	<u>Consent of Independent Registered Public Accounting Firm.</u>
<u>23.2**</u>	<u>Consent of Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C. (included in Exhibit 5.1).</u>
<u>107**</u>	<u>Filing Fee Table.</u>

Exhibits:

† Indicates management compensatory plan, contract or arrangement.

Confidential treatment has been granted with respect to certain portions of this exhibit, which portions have been omitted and filed separately with the Securities and Exchange Commission as part of an application for confidential treatment pursuant to the Securities and Exchange Act of 1934, as amended.

* Filed herewith.

** Filed previously.

Item 17. Undertakings.

The undersigned registrant hereby undertakes:

(1) To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:

(i) To include any prospectus required by Section 10(a)(3) of the Securities Act;

(ii) To reflect in the prospectus any facts or events arising after the effective date of the registration statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the registration statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than a 20 percent change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement.

(iii) To include any material information with respect to the plan of distribution not previously disclosed in the registration statement or any material change to such information in the registration statement;

(2) That, for the purpose of determining any liability under the Securities Act, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

(3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

(4) That, for the purpose of determining liability under the Securities Act to any purchaser: each prospectus filed pursuant to Rule 424(b) as part of a registration statement relating to an offering, other than registration statements relying on Rule 430B or other than prospectuses filed in reliance on Rule 430A, shall be deemed to be part of and included in the registration statement as of the date it is first used after effectiveness; provided, however, that no statement made in a registration statement or prospectus that is part of the registration statement or made in a document incorporated or deemed incorporated by reference into the registration statement or prospectus that is part of the registration statement will, as to a purchaser with a time of contract of sale prior to such first use, supersede or modify any statement that was made in the registration statement or prospectus that was part of the registration statement or made in any such document immediately prior to such date of first use.

(5) Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers, and controlling persons of the registrant pursuant to the foregoing provisions, or otherwise, the registrant has been advised that in the opinion of the SEC such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the registrant of expenses incurred or paid by a director, officer or controlling person of the registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Act and will be governed by the final adjudication of such issue.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the registrant has duly caused this Registration Statement on Form S-1 to be signed on its behalf by the undersigned, thereunto duly authorized, in Berkeley Heights, New Jersey, on February 7, 2024.

CYCLACEL PHARMACEUTICALS, INC.

By: /s/ Paul McBarron

Paul McBarron

Chief Operating Officer, Chief Financial Officer & Executive Vice
President, Finance

Pursuant to the requirements of the Securities Act of 1933, this Registration Statement on Form S-1 has been signed below by the following persons in the capacities and on the dates indicated.

/s/ Spiro Rombotis President & Chief Executive Officer and Director (Principal Executive Officer) February 7, 2024
Spiro Rombotis

/s/ Paul McBarron Chief Operating Officer, Chief Financial Officer & Executive Vice President, Finance and Director (Principal Financial and Accounting Officer) February 7, 2024
Paul McBarron

* Chairman February 7, 2024
Dr. Christopher Henney

* Vice Chairman February 7, 2024
Dr. Robert Spiegel

* Director February 7, 2024
Dr. Samuel L. Barker

* Director February 7, 2024
Kenneth Ferguson

* Director February 7, 2024
Dr. Brian Schwartz

* Director February 7, 2024
Karin L. Walker

*By: /s/ Paul McBarron
Name: Paul McBarron
Title: Attorney-in-fact

Consent of Independent Registered Public Accounting Firm

We consent to the use in this Amendment No. 1 to the Registration Statement (No. 333-276623) on Form S-1 of Cyclacel Pharmaceuticals, Inc. of our report dated March 8, 2023, except for the Notes 1, 15 and 17 as to which the date is November 28, 2023 and Note 18 as to which the date is February 7, 2024, relating to the consolidated financial statements of Cyclacel Pharmaceuticals, Inc. and subsidiaries, appearing in the Prospectus, which is part of this Registration Statement.

We also consent to the reference to our firm under the heading "Experts" in such Prospectus.

/s/ RSM US LLP

New York, New York
February 7, 2024
