

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

FORM 10-K

(Mark One)

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

For the fiscal year ended December 31, 2021

OR

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

For the transition period from _____ to _____

Commission file number: 001-38443

COGENT BIOSCIENCES, INC.

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation or organization)
200 Cambridge Park Drive, Suite 2500
Cambridge, Massachusetts
(Address of principal executive offices)

46-5308248
(I.R.S. Employer
Identification Number)

02140
(Zip Code)

(617) 945-5576
(Registrant's telephone number, including area code)

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

Title of each class	Trading Symbol	Name of exchange on which registered
Common Stock, \$0.001 Par Value	COGT	The Nasdaq Global Select Market

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

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

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

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

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

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

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

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

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

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

The aggregate market value of Common Stock held by non-affiliates of the registrant computed by reference to the price of the registrant's Common Stock as of June 30, 2021, the last business day of the registrant's most recently completed second fiscal quarter, was approximately \$310.5 million (based on the last reported sale price on the Nasdaq Global Select Market as of such date).

As of March 11, 2022, there were 45,813,667 shares of the registrant's Common Stock, \$0.001 par value per share, outstanding.

DOCUMENTS INCORPORATED BY REFERENCE

The information required by Part III of this report, to the extent not set forth herein, is incorporated herein by reference from our definitive proxy statement relating to the 2022 Annual Meeting of Stockholders, which definitive proxy statement shall be filed with the Securities and Exchange Commission within 120 days after the end of the annual period to which this report relates.

Cogent Biosciences, Inc.
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Summary of the Material Risks Associated with Our Business

Our business is subject to numerous risks and uncertainties that you should be aware of in evaluating our business. These risks include, but are not limited to, the following:

- Our business is highly dependent on the success of our bezuclastinib program and our ability to discover and develop additional product candidates. We may not be successful in our efforts to develop bezuclastinib or expand our pipeline of drug candidates.
- Since the number of patients that we have dosed to date in our clinical trials is small, the results from such clinical trials may be less reliable than results achieved in larger clinical trials.
- Clinical trials are expensive, time-consuming, and difficult to design and implement.
- The current pandemic of the novel coronavirus, or COVID-19, and the future outbreak of other highly infectious or contagious diseases, could seriously harm our development efforts, increase our costs and expenses and have a material adverse effect on our business, financial condition and results of operations.
- We face significant competition from other biotechnology and pharmaceutical companies, and our operating results will suffer if we fail to compete effectively.
- We may choose not to develop a potential product candidate, or we may suspend, deprioritize or terminate one or more discovery programs or preclinical or clinical product candidates or programs.
- Regulatory authorities, including the U.S. Food and Drug Administration (“FDA”), may disagree with our regulatory plan and we may fail to obtain regulatory approval of our product candidates.
- The impact on our business of healthcare legislation and other changes in the healthcare industry and in healthcare spending is currently unknown and may adversely affect our business model.
- We contract with third parties for the manufacture of our product candidates for preclinical development and clinical trials. This reliance on third parties increases the risk that we will not have sufficient quantities of our drug candidates or such quantities at an acceptable cost, which could delay, prevent or impair our development or commercialization efforts.
- The third parties upon whom we rely for the supply of the API and drug product used in bezuclastinib are our sole source of supply, and the loss of any of these suppliers could significantly harm our business.
- We may form or seek collaborations or strategic alliances or enter into additional licensing arrangements in the future, and we may not realize the benefits of such collaborations, alliances or licensing arrangements.
- If our efforts to protect the proprietary nature of the intellectual property related to our technologies are not adequate, we may not be able to compete effectively in our market.
- We are highly dependent on our key personnel, and if we are not successful in attracting and retaining highly qualified personnel, we may not be able to successfully implement our business strategy.
- We have incurred net losses in every year since our inception and anticipate that we will continue to incur net losses in the future.
- We will require substantial additional funding. If we fail to obtain additional financing when needed, or on attractive terms, we may be unable to complete the development and commercialization of our product candidates
- The price of our stock may be volatile, and you could lose all or part of your investment.

The summary risk factors described above should be read together with the text of the full risk factors in *Item 1A. “Risk Factors”* and the other information set forth in this Annual Report on Form 10-K, including our consolidated financial statements and the related notes, as well as in other documents that we file with the SEC. The risks summarized above or described in full below are not the only risks that we face. Additional risks and uncertainties not precisely known to us, or that we currently deem to be immaterial may also materially adversely affect our business, financial condition, results of operations and future growth prospects.

FORWARD-LOOKING STATEMENTS

This Annual Report on Form 10-K contains forward-looking statements, which reflect our current views with respect to, among other things, our operations and financial performance. All statements other than statements of historical facts contained in this Annual Report on Form 10-K, including statements regarding our future results of operations and financial position, business strategy and plans, and objectives of management for future operations, are forward-looking statements. These statements involve known and unknown risks, uncertainties, and other important factors that may cause our actual results, performance or achievements to be materially different from any future results, performance, or achievements expressed or implied by the forward-looking statements.

In some cases, you can identify forward-looking statements by terms such as “may,” “should,” “expects,” “might,” “plans,” “anticipates,” “could,” “intends,” “target,” “projects,” “contemplates,” “believes,” “estimates,” “predicts,” “potential,” “seek,” “would” or “continue,” or the negative of these terms or other similar expressions. The forward-looking statements in this Annual Report on Form 10-K are only predictions. We have based these forward-looking statements largely on our current expectations and projections about future events and financial trends that we believe may affect our business, financial condition and results of operations. Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee that the future results, levels of activity, performance or events and circumstances reflected in the forward-looking statements will be achieved or occur. These forward-looking statements speak only as of the date of this Annual Report on Form 10-K and are subject to a number of risks, uncertainties and assumptions described in the “Risk Factors” section and elsewhere in this Annual Report on Form 10-K. Because forward-looking statements are inherently subject to risks and uncertainties, some of which cannot be predicted or quantified, you should not rely on these forward-looking statements as predictions of future events. The events and circumstances reflected in our forward-looking statements may not be achieved or occur and actual results could differ materially from those projected in the forward-looking statements. Some of the key factors that could cause actual results to differ from our expectations include:

- the potential impacts of raising additional capital, including dilution to our existing stockholders, restrictions on our operations or requirements that we relinquish rights to our technologies or product candidates;
- business interruptions resulting from the coronavirus disease (“COVID-19”) outbreak or similar public health crises, which could cause a disruption to the development of our product candidates and adversely impact our business;
- the success, cost, and duration of our product development activities and clinical trials;
- the timing of our planned regulatory submissions to the FDA for our bezuclastinib product candidate, also known as CGT9486;
- our ability to obtain and maintain regulatory approval for our bezuclastinib product candidate and any other product candidates we may develop, and any related restrictions, limitations, and/or warnings in the label of an approved product candidate;
- the potential for our identified research priorities to advance our bezuclastinib product candidate or for our teams to discover and develop additional product candidates;
- the ability to license additional intellectual property rights relating to our bezuclastinib product candidate or future product candidates from third-parties and to comply with our existing or future license agreements and/or collaboration agreements;
- our ability to commercialize our bezuclastinib product candidate and future product candidates in light of the intellectual property rights of others;
- our ability to obtain funding for our operations, including funding necessary to complete further discovery, development and commercialization of our existing and future product candidates;
- the scalability and commercial viability of our manufacturing methods and processes;
- the commercialization of our product candidates, if approved;
- our ability to attract collaborators with development, regulatory, and commercialization expertise;
- future agreements with third parties in connection with the commercialization of our product candidates and any other approved product;
- the size and growth potential of the markets for our product candidates, and our ability to serve those markets;
- the rate and degree of market acceptance of our product candidates;

- the pricing and reimbursement of our product candidates, if approved;
- regulatory developments in the United States and foreign countries;
- our ability to contract with third-party suppliers and manufacturers and their ability to perform adequately;
- the development and success of competing therapies that are or may be under development in clinical trials or become available commercially;
- our ability to attract and retain key scientific and management personnel;
- the accuracy of our estimates regarding expenses, future revenue, capital requirements, and needs for additional financing;
- our use of the proceeds from the private placements, sales of our preferred stock and public offerings of our common stock from time to time; and
- our expectations regarding our ability to obtain and maintain intellectual property protection for our bezuclastinib product candidate and future product candidates.

While we may elect to update these forward-looking statements at some point in the future, whether as a result of any new information, future events, or otherwise, we have no current intention of doing so except to the extent required by applicable law.

PART I

Unless the context otherwise requires, we use the terms “Cogent,” “company,” “we,” “us,” and “our” to refer to Cogent Biosciences, Inc. and, where appropriate, our subsidiaries.

ITEM 1. BUSINESS

Overview

We are a biotechnology company focused on developing precision therapies for genetically defined diseases. Our approach is to design rational precision therapies that treat the underlying cause of disease and improve the lives of patients. Our most advanced program is bezuclastinib (also known as CGT9486), a selective tyrosine kinase inhibitor designed to potently inhibit the KIT D816V mutation as well as other mutations in KIT exon 17. In the vast majority of cases, KIT D816V is responsible for driving Systemic Mastocytosis (“SM”), a serious disease caused by unchecked proliferation of mast cells. Exon 17 mutations are also found in patients with advanced gastrointestinal stromal tumors (“GIST”), a type of cancer with strong dependence on oncogenic KIT signaling. Bezuclastinib is a highly selective and potent KIT inhibitor with the potential to provide a new treatment option for these patient populations.

Bezuclastinib has been administered to more than 50 advanced solid tumor and GIST patients in a Phase 1/2 clinical trial, with the vast majority of those patients living with advanced GIST. GIST is a disease frequently driven by KIT mutations, and resistance to currently available therapeutics is frequently associated with the emergence of other KIT mutations. Anti-tumor activity for bezuclastinib was observed in both single agent and combination settings, including in combination with sunitinib, an approved treatment option for GIST patients. Clinical data from this trial have been published in the Journal of American Medical Association (“JAMA”) and have been presented at several scientific conferences, including most recently by Cogent at the 2020 annual Connective Tissue Oncology Society (“CTOS”) meeting, and previously by Plexxikon Inc. (“Plexxikon”), a member of the Daiichi Sankyo Group, at the 2018 annual American Society of Clinical Oncology (“ASCO”) meeting and the 2017 annual CTOS meeting. Within the group of 15 heavily pre-treated GIST patients who received the combination of bezuclastinib and sunitinib, and who had not received prior treatment with bezuclastinib, the confirmed objective response rate (“ORR”) was twenty percent, including two partial responses and one complete response, while the estimated median progression free survival (“mPFS”) for this group was twelve months. Four subjects continued to receive bezuclastinib via individual patient INDs beyond the conclusion of the trial. In October 2021, we presented preclinical data in a virtual poster at the 2021 AACR-NCI-EORTC Virtual International Conference on Molecular Targets and Cancer Therapeutics that identified bezuclastinib as a differentiated potent KIT mutant inhibitor with unique selectivity for KIT D816V and minimal evidence of brain penetration that avoids targeting PDGFR isoforms.

We licensed the exclusive worldwide rights to develop and commercialize bezuclastinib from Plexxikon. Under the terms of the license agreement, Plexxikon received an upfront payment and is eligible for additional development and regulatory milestone payments along with mid- to high- single-digit royalty payments.

During the second quarter of 2021, we announced the formation of the Cogent Research Team, a highly experienced discovery and research team focused on pioneering best-in-class, small molecule therapeutics. In April 2022, we will host an R&D investor event to outline our strategy and focus to create best-in-class small molecules, highlight additional preclinical data demonstrating the potential differentiated profile for bezuclastinib and present early data from our growing pipeline of novel, small molecule targeted therapy programs. In April 2022, we will also present two posters at the American Association for Cancer Research (AACR) Annual Meeting, one of which will reveal in vitro and in vivo characteristics of a novel series of FGFR inhibitors with potency against clinically relevant mutations.

We have assembled a management team with extensive experience in the research, development, manufacturing and commercialization of pharmaceutical products, specifically including numerous successful precision medicines for genetically defined diseases. With the support of our board of directors and their expertise we believe that the Company is well positioned to develop and commercialize novel precision medicines. Beginning with bezuclastinib, our mission is to develop and commercialize pharmaceutical products that improve the lives of patients fighting rare, genetically driven diseases.

Our Strategy

Our vision is to discover, develop, and commercialize best-in-class therapies that have a meaningful impact for patients with genetically defined diseases. The principal components of our strategy include:

- Explore the clinical utility of bezuclastinib in Advanced Systemic Mastocytosis (“AdvSM”);
- Explore the clinical utility of bezuclastinib in Non-Advanced Systemic Mastocytosis (“Non-AdvSM”);
- Explore the clinical utility of bezuclastinib in combination with sunitinib in GIST;
- Prepare to commercialize bezuclastinib should any or all of the planned clinical trials demonstrate clinical benefit for patients with high unmet medical need; and
- Discover and develop additional precision medicines for patients with genetically defined diseases.

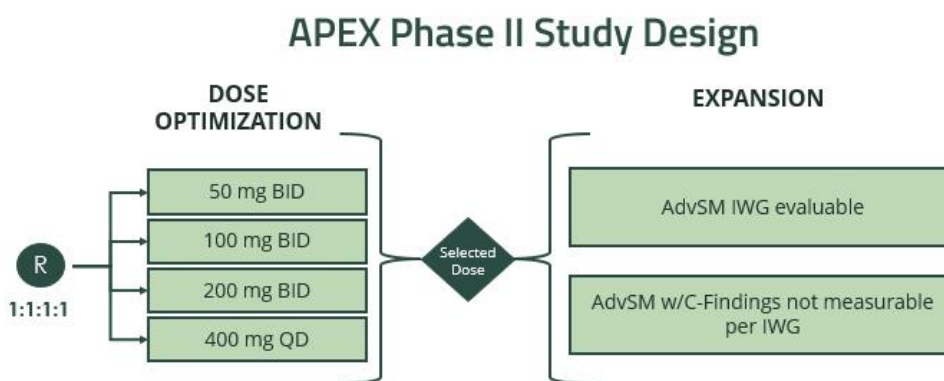
Our Pipeline and Approach

Bezuclastinib, a potential best-in-class KIT mutant inhibitor, has demonstrated promising clinical activity and safety results in a Phase 1/2 clinical trial in patients with GIST, supporting accelerated timelines to proof-of-concept in SM.

In 2021, we initiated three clinical trials designed to explore the safety and efficacy of bezuclastinib for AdvSM, Non-AdvSM and GIST patients as detailed below. Currently, all three clinical trials are actively recruiting patients.

APEX (AdvSM)

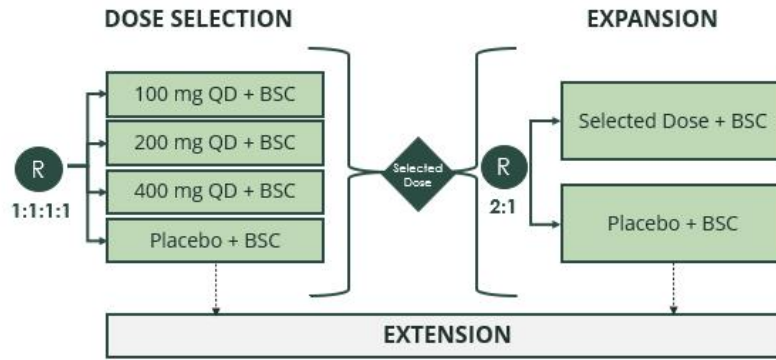
In the second quarter of 2021, we initiated APEX, a Phase 2 clinical study of bezuclastinib in patients with AdvSM. APEX is an open-label, global, multicenter study evaluating the safety, efficacy, pharmacokinetic, and pharmacodynamic profiles of bezuclastinib. We expect to report preliminary clinical data at a scientific conference during the first half of 2022, including safety and tolerability data as well as bezuclastinib's impact on serum tryptase levels, a validated biomarker of mast cell activity. The below shows the current APEX clinical study design.



SUMMIT (Non-AdvSM)

In the fourth quarter of 2021, we initiated SUMMIT, a randomized, double-blind, placebo-controlled, global Phase 2 clinical trial. The study is designed to explore the safety and efficacy of bezuclastinib in patients with moderate to severe Indolent Systemic Mastocytosis (“ISM”) or Smoldering Systemic Mastocytosis (“SSM”). The below shows the current Summit clinical study design.

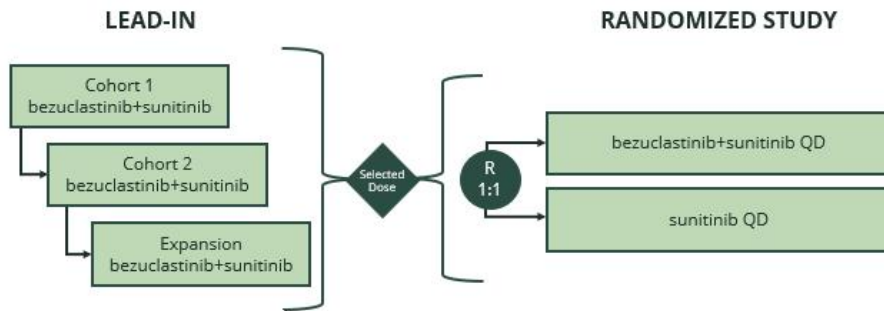
SUMMIT Phase II Study Design



PEAK (GIST)

In the fourth quarter of 2021, we initiated Peak, a randomized, open-label, global Phase 3 clinical trial. The PEAK study is designed to explore the efficacy of bezuclastinib in combination with sunitinib compared to sunitinib alone in patients with locally advanced, unresectable or metastatic GIST who have received prior treatment with imatinib. Dose selection will confirm the pharmacokinetics of the updated formulation of bezuclastinib to be used in this study. The below shows the current Peak clinical study design.

PEAK Phase III Study Design



Research Programs

During the second quarter of 2021, we announced the formation of the Cogent Research Team, a highly experienced discovery and research team. Based in Boulder, Colorado, the Cogent Research Team is focused on pioneering best-in-class, small molecule therapeutics to expand Cogent's pipeline and deliver novel precision therapies for patients living with unmet medical needs. Dr. John Robinson, our Chief Scientific Officer, leads the Cogent Research team composed of highly experienced scientists with deep expertise across a broad range of functional specialties including medicinal chemistry, computational chemistry, biology, enzymology and pharmacology.

In April 2022, we will host an R&D investor event to outline our strategy and focus to create best-in-class small molecules, highlight additional preclinical data demonstrating the potential differentiated profile for bezuclastinib and present early data from our growing pipeline of novel, small molecule targeted therapy programs.

Bezuclastinib Overview

Bezuclastinib is designed to target mutations found within the KIT receptor tyrosine kinase, including KIT D816V. As a Type I inhibitor bezuclastinib is designed to selectively bind the active conformation of mutant KIT. We have seen comparable potency observed relative to other FDA-approved KIT mutant inhibitors with potential selectivity advantages. In preclinical studies of bezuclastinib limited blood-brain-barrier penetration was observed, and there have been no clinically significant CNS toxicities identified either preclinically or clinically. The figures below provide a summary of potency and selectivity preclinical data.

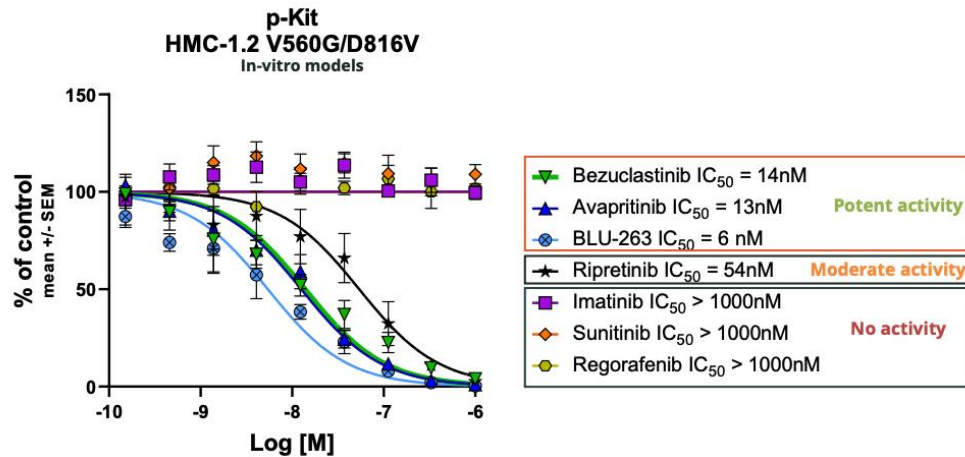
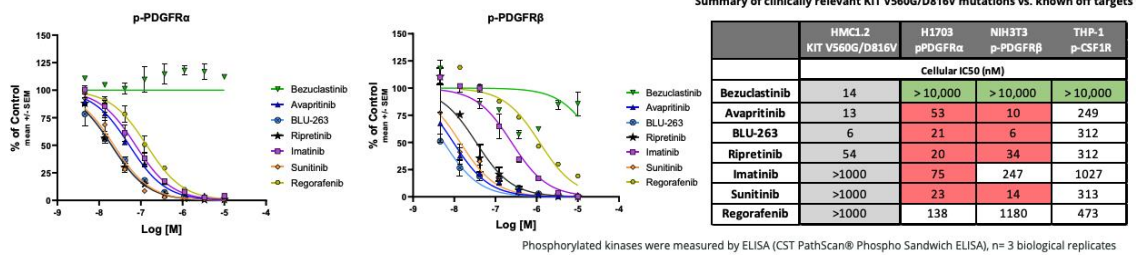


Figure 1. Potent Inhibitor of KIT Activation Loop Mutants, Including D816V

HMC-1.2 human mast cells were treated with indicated inhibitors for 1 hour (n = 3 biological replicates) Readout is phosphorylated c-Kit (Human Phospho c-Kit ELISA, R&D Systems)

In-cell selectivity data in in-vitro models



* Inhibition of these closely related kinases have been linked to off-target toxicities, such as edema and pleural effusions^{1,2}

1. Giles et al, *Leukemia*, 2009; 2. Liu and Kurzrock, *Seminars in Oncology*, 2015

Figure 2. Selectivity Against Related Kinases

Bezuclastinib – SM

SM is driven by KIT D816V mutations causing a perpetual ‘on’ state within mast cells, a type of white blood cell, leading to proliferation and accumulation in various internal organs and bone marrow. As a highly selective and potent KIT inhibitor, bezuclastinib has the potential to provide a new treatment option for patients with both SM and GIST. In addition, in preclinical studies, bezuclastinib has shown clear selectivity for KIT mutations versus other kinase targets frequently associated with other KIT inhibitors including, but not limited to, wild-type KIT, VEGFR, PDGFRα and CSF1R.

SM occurs when mast cells inappropriately accumulate in various internal organs in the body. About 90% of people diagnosed with SM have Non-AdvSM, a life-long illness with chronic symptoms including headaches, urticaria pigmentosa, skin lesions, skin redness and warmth (flushing), abdominal pain, bloating, vomiting, diarrhea, and gastroesophageal reflux

("GERD"), that significantly impact the patient's quality of life. Many patients are also at high risk for severe, life-threatening anaphylactic reactions to various triggers such as insect bites or stings. Patients with AdvSM have a significantly diminished lifespan with a median survival of less than 3.5 years. Patients with Non-AdvSM suffer from a poor quality of life and without any currently approved therapies, are in need of new treatment options. AdvSM is a rare, very aggressive form of SM. Patients with AdvSM may suffer from a multitude of debilitating symptoms such as anemia, thrombocytopenia, ascites, bone fractures, gastrointestinal abnormalities, and enlargement of the liver, spleen, and lymph nodes, which ultimately lead to organ failure and early death.

Based on the characteristics of bezuclastinib, we are pursuing development of the compound in both patients living with AdvSM and patients with Non-AdvSM, the vast majority of whom have a KIT D816V mutation. Emerging clinical data for other kinase inhibitors with activity against KIT D816V have shown that SM patients are highly sensitive to inhibition of the target. Bezucastinib was specifically designed to selectively inhibit KIT mutations, including KIT D816V.

The underlying SM patient population is not yet well understood. It has been estimated that the prevalence of SM in the United States is between 20,000 to 30,000 patients of which approximately 90% are estimated to have Non-AdvSM. We believe there is a significant unmet medical need for clinically active, well tolerated treatment options for this patient population. We believe bezuclastinib is well suited to meet this need and target the direct underlying cause of SM.

We initiated our APEX study for patients with AdvSM in the second quarter of 2021 and patient enrollment is underway. APEX is an open-label, global, multicenter study evaluating the safety, efficacy and pharmacokinetic and pharmacodynamic profiles of bezuclastinib. We expect to report preliminary data from patients treated in the APEX trial in the first half of 2022. We initiated our SUMMIT study for patients with Non-AdvSM in the fourth quarter of 2021. SUMMIT is a randomized, double-blind placebo-controlled, global Phase 2 clinical trial designed to explore the safety and efficacy of bezuclastinib in patients with moderate to severe Indolent Systemic Mastocytosis or Smoldering Systemic Mastocytosis. By monitoring relevant biomarkers of disease activity, including levels of serum tryptase, we expect to rapidly assess bezuclastinib activity in SM patients.

Bezuclastinib – GIST

GIST is characterized by uncontrolled cell growth in the tissues of the gastrointestinal ("GI") tract. At diagnosis, about 80% of GIST patients' tumors are the result of primary KIT mutations. The 5-Year relative survival rate is 83% with currently approved therapies, including imatinib, but the majority of GIST patients eventually develop resistance to these treatments due to secondary KIT mutations, most notably in exon 17 and exon 13. Bezucastinib is designed to be a potent and selective inhibitor of KIT exon 17 mutations. By combining bezuclastinib with sunitinib, a tyrosine kinase inhibitor known to inhibit KIT exon 13 mutations, we believe this combination has the potential to offer a new, active treatment option for imatinib resistant GIST patients.

The safety profile of bezuclastinib has been clinically evaluated in approximately 50 patients both as a single agent and as part of a combination therapy. In November 2020, we presented final results from a Phase 1/2 trial testing the combination of bezuclastinib with sunitinib in 18 patients with advanced GIST. In the subset of 15 patients who had not been previously treated with bezuclastinib as a single-agent, the estimated mPFS reached 12 months. These patients had each received several previous treatments, including 10 patients who had received at least three prior lines of therapy. The confirmed ORR was measured at 20 percent, including two partial responses and one complete response. Four subjects continued to receive bezuclastinib via individual patient INDs beyond the conclusion of the trial.

Demographics and Prior Therapy: Heavily Pretreated GIST Patients treated in Phase 1/2 Trial Testing the Combination of Bezuclastinib with Sunitinib

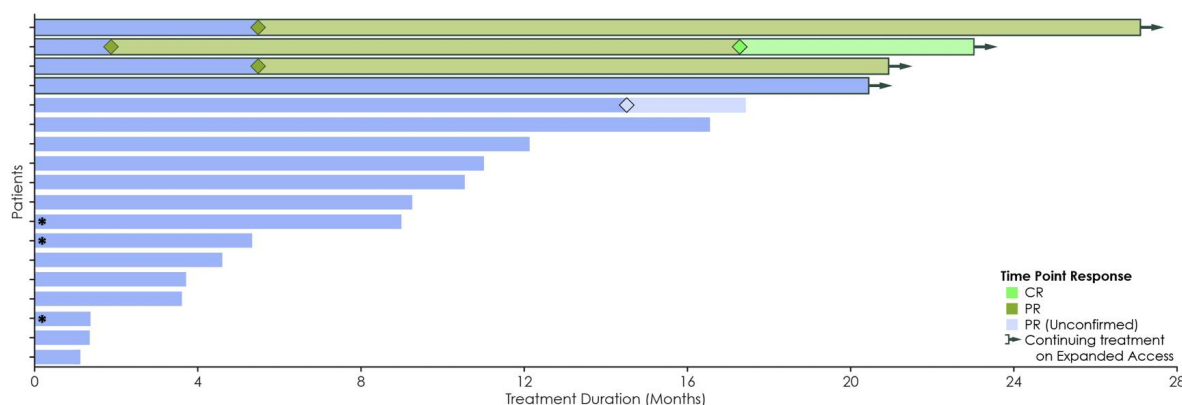
	Total (N=18)	Dose Level 1 (n=3)	Dose Level 2 (n=5)	Dose Level 3 (n=10)
Age, Median (range)	62 (44 – 78)	57 (46 – 68)	55 (44 – 78)	62 (53 – 65)
Sex, male, n (%)	9 (50)	0	3 (60)	6 (60)
Prior Regimens, Median (range)	3 (1 – 6)	2 (1 – 2)	3 (1 – 6)	4 (1 – 5)
Imatinib, n (%)	18 (100)	3 (100)	5 (100)	10 (100)
Sunitinib, n (%)	13 (72)	1 (33)	4 (80)	8 (80)
Regorafenib, n (%)	12 (67)	0	4 (80)	8 (80)
Ripretinib, n (%)	5 (28)	1 (33)	1 (20)	3 (30)
≥ 3 prior lines, n (%)	12 (67)	0	4 (80)	8 (80)
Prior treatment with CGT9486 (previously enrolled on another arm)	3 (17)	0	0	3 (30)

DL 1 = CGT9486 500 mg + Sunitinib 25 mg; DL 2 = CGT9486 1000 mg + Sunitinib 25 mg; DL3 = CGT9486 1000 mg + Sunitinib 37.5 mg
All doses PO once daily

Source: 2020 CTOS annual

meeting

Durable Responses in Patients Treated with Bezuclastinib + Sunitinib



Source: 2020 CTOS annual meeting

There are an estimated 2,000 to 3,500 patients with imatinib-resistant GIST eligible for treatment each year in the United States. We believe there is a significant unmet medical need for clinically active, well tolerated treatment options for this patient population and results from our clinical trial of bezuclastinib in combination with sunitinib demonstrated the potential for this novel combination to address the underlying drivers of imatinib resistance.

Based on these results, we initiated PEAK, a randomized, open-label, global Phase 3 clinical trial in the fourth quarter of 2021. The PEAK study is designed to evaluate the safety, tolerability, and efficacy of bezuclastinib in combination with sunitinib compared to sunitinib alone in patients with locally advanced, unresectable or metastatic GIST who have received prior treatment with imatinib. The FDA has granted orphan drug designation to bezuclastinib for the treatment of GIST.

Intellectual Property

One key to our success will be our ability to establish and maintain protection for our product candidates and know-how, in order to enforce and defend our intellectual property rights and to operate without infringing on the rights of others. We rely on our know-how, trade secrets and continuing technological innovation as well as on in-licensing of third-party intellectual

property to develop and maintain our proprietary position. Our patent portfolio consists of U.S. patents and foreign patents and patent applications that we in-licensed exclusively from Plexxikon.

With the acquisition of Kiq Bio LLC (formerly Kiq LLC) (“Kiq”) on July 6, 2020, we obtained an exclusive, sublicensable, worldwide license to patents and applications owned by Plexxikon pursuant to a license agreement between Plexxikon and Kiq (the “License Agreement”). The licensed patents and applications under the License Agreement cover bezuclastinib, as well as its therapeutic uses. These patents and applications include issued patents in multiple territories, including, but not limited to, Australia, Canada, China, Colombia, Europe (validated in Germany, Spain, France, Great Britain, Italy, the Netherlands, as well as various other EU countries), Hong Kong, India, Indonesia, Israel, Japan, Mexico, New Zealand, Peru, the Philippines, Republic of Korea, Russia, Singapore, South Africa, Taiwan, and the United States. The pending applications also include patent applications pending in Brazil, Egypt and the United States. The issued U.S. patents are expected to expire in 2033 and 2034, and the issued foreign patents are expected to expire in 2033, without consideration of potential patent term extensions. We may seek to obtain rights under additional patent applications relating to bezuclastinib and its use to treat SM and GIST in the United States and in other countries as we proceed with this development program.

We are not currently a party and have not been a party to any legal proceedings involving patent rights.

In addition to the protection afforded by patents, we seek to protect our technology and product candidates, in part, by trade secret and confidentiality agreements with those who have access to our confidential information, including our employees, contractors, consultants, collaborators, and advisors. We also seek to preserve the integrity and confidentiality of our proprietary technology and processes by maintaining physical security of our premises and physical and electronic security of our information technology systems. Although we have confidence in these individuals, organizations, and systems, agreements or security measures may be breached and we may not have adequate remedies for any breach. Furthermore, the laws of some foreign countries may not protect proprietary rights to the same extent or in the same manner as the laws of the United States.

In addition, our trade secrets may otherwise become known or may be independently discovered by competitors. To the extent that our employees, contractors, consultants, collaborators, and advisors use intellectual property owned by others in their work for us, disputes may arise as to the rights in related or resulting know-how and inventions.

Moreover, we may be subject to claims challenging the inventorship or ownership of our patents and other intellectual property. Disputes regarding ownership or inventorship of our patents or other intellectual property can arise in various contexts, including collaborations and sponsored research. If we are subject to a dispute challenging our rights in or to patents or other intellectual property, such a dispute could be expensive and time consuming. If we are unsuccessful, we could lose valuable rights in intellectual property that we regard as our own.

For more comprehensive risks related to our proprietary technology, inventions, improvements and products, please see the section on “Risk Factors—Risks Related to Intellectual Property.”

Licenses and Third-Party Research Collaborations

License Agreement with Plexxikon Inc.

In July 2020, we obtained an exclusive, sublicensable, worldwide license to certain patents and other intellectual property rights to research, develop, and commercialize bezuclastinib. Under the terms of the License Agreement, we are required to pay Plexxikon aggregate payments of up to \$7.5 million upon the satisfaction of certain clinical milestones and up to \$25.0 million upon the satisfaction of certain regulatory milestones.

We are also required to pay Plexxikon tiered royalties ranging from a low-single digit percentage to a high-single digit percentage on annual net sales of products. These royalty obligations last on a product-by-product basis and country-by-country basis until the latest of (i) the date on which there is no valid claim of a licensed Plexxikon patent covering a subject product in such country or (ii) the 10th anniversary of the date of the first commercial sale of the product in such country. In addition, if we sublicense the rights under the License Agreement, we are required to pay a certain percentage of the sublicense revenue to Plexxikon ranging from mid-double digit percentages to mid-single digit percentages, depending on whether the sublicense is entered into prior to or after certain development and regulatory milestones.

The License Agreement will expire on a country-by-country and licensed product-by-licensed product basis until the later of the last to expire of the patents covering such licensed products or services or the 10-year anniversary of the date of first commercial sale of the licensed product in such country. Plexxikon may terminate the License Agreement within 30 days after written notice in the event of a breach of contract that remains uncured. Plexxikon may also terminate the agreement upon written notice in the event of our bankruptcy, liquidation, or insolvency. In addition, we have the right to terminate the License Agreement in its entirety at will upon 90 days’ advance written notice to Plexxikon.

Competition

The pharmaceutical and biotechnology industries are characterized by rapidly advancing technologies, intense competition and a strong emphasis on proprietary drugs. While we believe that our technology, development experience, and scientific knowledge provide us with competitive advantages, we face potential competition from many different sources, including major pharmaceutical, specialty pharmaceutical and biotechnology companies, academic institutions governmental agencies, and public and private research institutions. Any drug candidates that we successfully develop and commercialize will compete with existing drugs and new drugs that may become available in the future.

We compete in the segments of the pharmaceutical, biotechnology, and other related markets that address precision medicines for patients with genetically defined diseases. There are several other companies working to develop therapies in this field using a similar strategy. These companies include divisions of large pharmaceutical companies and biotechnology companies of various sizes.

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

Our commercial opportunity could be reduced or eliminated if our competitors develop and commercialize drugs that are safer, more effective, have fewer or less severe side effects, are more convenient, or are less expensive than any drugs that we or our collaborators may develop. Our competitors also may obtain FDA or other regulatory approval for their drugs more rapidly than we may obtain approval for ours, which could result in our competitors establishing a strong market position before we or our collaborators are able to enter the market. The key competitive factors affecting the success of all of our drug candidates, if approved, are likely to be their efficacy, safety, convenience, price, the effectiveness of companion diagnostics, the level of generic competition, and the availability of reimbursement from government and other third-party payors.

Bezuclastinib, if approved for the indications for which we are currently enrolling clinical trials, will compete with the drugs discussed below and will likely compete with other drugs that are currently in development.

In SM, the only approved drugs for the treatment of AdvSM are Blueprint Medicines Corporation's avapritinib, Novartis AG's midostaurin. Additionally, Novartis AG's imatinib is approved for AdvSM patients without the KIT D816V mutation or mutational status unknown. We may face competition from other drug candidates in pre-clinical or clinical development for SM, including drug candidates from AB Sciences S.A, Allakos Inc., Celldex Therapeutics, Inc and Blueprint Medicines Corporation.

In GIST, the current approved standards of care for unresectable or metastatic patients are first-line imatinib, followed by second-line sunitinib upon imatinib progression, followed by third-line regorafenib upon sunitinib progression, followed by fourth-line ripretinib for patients who have received 3 or more prior kinase inhibitors. In addition, avapritinib was approved by the FDA in January 2020 for patients with GIST harboring a PDGFR α exon 18 mutation, including PDGFRA D842V mutations only. We may face competition from other drug candidates in pre-clinical or clinical development including, Arog Pharmaceuticals, Inc., Celldex Therapeutics, Inc., Taiho Pharmaceutical Co. Ltd, Xencor, Inc., and Theseus Pharmaceuticals, Inc.

Manufacturing and Supply

We do not own or operate, and have no current plans to establish, any manufacturing facilities. We currently rely, and expect to continue to rely, on third parties to manufacture our drug candidates for preclinical and clinical testing, as well as for future commercial supply of any drugs that we may commercialize. To date, we have obtained API and drug product from third-party manufacturers for bezuclastinib to support preclinical and clinical testing. We obtain our supplies from these manufacturers on a purchase-order basis and do not have any long-term supply arrangements. We do not currently have a validated manufacturing process in place for any product candidate which would be required to support commercialization of any of our drug candidates, if approved.

Our drug candidates are compounds of low molecular weight, generally called small molecules. They can be manufactured from readily available starting materials in reliable and reproducible synthetic processes. The manufacturing process is amenable to scale-up. As we continue our clinical development of bezuclastinib, we expect to continue to enhance our manufacturing process to allow for drug candidates that are safer, more effective, have superior dosing regimens and are cost-effective.

In November 2021, through a partnership with Serán Biosciences, Inc., we announced the development of an updated formulation of bezuclastinib. This formulation is expected to reduce the number of daily tablets, thereby potentially improving the overall patient experience, and is initially being used in our PEAK trial.

We generally expect to rely on third parties for the manufacture of any companion diagnostics we may develop.

Government Regulation

Government authorities in the United States, at the federal, state and local levels, and in other countries and jurisdictions, including the European Union, extensively regulate, among other things, the research, development, testing, product approval, manufacture, quality control, manufacturing changes, packaging, storage, recordkeeping, labeling, promotion, advertising, sales, distribution, marketing, and import and export of drugs and biologic products. Our current product candidates are expected to be regulated as drugs. The processes for obtaining regulatory approval in the United States and in foreign countries and jurisdictions, along with compliance with applicable statutes and regulations and other regulatory authorities both pre- and post-commercialization, are a significant factor in the production and marketing of our products and our research and development activities and require the expenditure of substantial time and financial resources.

Review and Approval of Drugs in the United States

In the United States, the FDA and other government entities regulate drugs under the Federal Food, Drug, and Cosmetic Act, or the FDCA and the regulations promulgated thereunder, as well as other federal and state statutes and regulations. Failure to comply with applicable legal and regulatory requirements in the United States at any time during the product development process, approval process, or after approval, may subject us to a variety of administrative or judicial sanctions, such as a delay in approving or refusal by the FDA to approve pending applications, withdrawal of approvals, delay or suspension of clinical trials, issuance of warning letters and other types of regulatory letters, product recalls, product seizures, total or partial suspension of production or distribution, injunctions, fines, civil monetary penalties, refusals of or debarment from government contracts, exclusion from the federal healthcare programs, restitution, disgorgement of profits, civil or criminal investigations by the FDA, U.S. Department of Justice, State Attorneys General, and/or other agencies, False Claims Act suits and/or other litigation, and/or criminal prosecutions.

An applicant seeking approval to market and distribute a new drug in the United States must typically undertake the following:

- completion of pre-clinical laboratory tests, animal studies, and formulation studies in compliance with the FDA's good laboratory practice, or GLP, regulations;
- submission to the FDA of an IND for human clinical testing, which must become effective without FDA objection before human clinical trials may begin;
- approval by an independent institutional review board, or IRB, representing each clinical site before each clinical trial may be initiated;
- performance of adequate and well-controlled human clinical trials in accordance with the FDA's good clinical practice, or GCP, regulations, to establish the safety and effectiveness of the proposed drug product for each indication for which approval is sought;
- preparation and submission to the FDA of a New Drug Application, or NDA;
- satisfactory review of the NDA by an FDA advisory committee, where applicable;
- satisfactory completion of one or more FDA inspections of the manufacturing facility or facilities at which the drug product, and the active pharmaceutical ingredient or ingredients thereof, are produced to assess compliance with current good manufacturing practice, or GMP, regulations and to assure that the facilities, methods, and controls are adequate to ensure the product's identity, strength, quality, and purity;
- payment of user fees, as applicable, and securing FDA approval of the NDA; and
- compliance with any post-approval requirements, such as any Risk Evaluation and Mitigation Strategies, or REMS, or post-approval studies required by the FDA.

Preclinical Studies and an IND

Preclinical studies can include in vitro and animal studies to assess the potential for adverse events and, in some cases, to establish a rationale for therapeutic use. The conduct of preclinical studies is subject to federal regulations and requirements, including GLP regulations. Other studies include laboratory evaluation of the purity, stability and physical form of the manufactured drug substance or active pharmaceutical ingredient and the physical properties, stability and reproducibility of the formulated drug or drug product. An IND sponsor must submit the results of the preclinical tests, together with manufacturing information, analytical data, any available clinical data or literature and plans for clinical studies, among other things, to the FDA as part of an IND. Some preclinical testing, such as longer-term toxicity testing, animal tests of reproductive adverse events and carcinogenicity, may continue after the IND is submitted. An IND automatically becomes effective 30 days after receipt by the FDA, unless before that time the FDA raises concerns or questions related to a proposed clinical trial and places the trial on clinical hold. In such a case, the IND sponsor and the FDA must resolve any outstanding concerns before the clinical trial can begin. As a result, submission of an IND may not result in the FDA allowing clinical trials to commence.

Following commencement of a clinical trial under an IND, the FDA may place a clinical hold on that trial. A clinical hold is an order issued by the FDA to the sponsor to delay a proposed clinical investigation or to suspend an ongoing investigation. A partial clinical hold is a delay or suspension of only part of the clinical work requested under the IND. For example, a specific protocol or part of a protocol is not allowed to proceed, while other protocols may do so. No more than 30 days after imposition of a clinical hold or partial clinical hold, the FDA will provide the sponsor a written explanation of the basis for the hold. Following issuance of a clinical hold or partial clinical hold, an investigation may only resume after the FDA has notified the sponsor that the investigation may proceed. The FDA will base that determination on information provided by the sponsor correcting the deficiencies previously cited or otherwise satisfying the FDA that the investigation can proceed.

Human Clinical Studies in Support of an NDA

Clinical trials involve the administration of the investigational product to human subjects under the supervision of qualified investigators in accordance with GCP requirements, which include, among other things, the requirement that all research subjects provide their informed consent in writing before their participation in any clinical trial. Clinical trials are conducted under written study protocols detailing, among other things, the objectives of the study, the parameters to be used in monitoring safety and the effectiveness criteria to be evaluated. A protocol for each clinical trial and any subsequent protocol amendments must be submitted to the FDA as part of the IND. In addition, an IRB representing each institution participating in the clinical trial must review and approve the plan for any clinical trial before it commences at that institution, and the IRB must conduct continuing review and reapprove the study at least annually. The IRB must review and approve, among other things, the study protocol and informed consent information to be provided to study subjects. An IRB must operate in compliance with FDA regulations.

Information about certain clinical trials must be submitted within specific timeframes to the NIH for public dissemination on its ClinicalTrials.gov website.

Human clinical trials are typically conducted in three sequential phases, which may overlap or be combined:

Phase 1: The product candidate is initially introduced into healthy human subjects or patients with the target disease or condition and tested for safety, dosage tolerance, absorption, metabolism, distribution, excretion and, if possible, to gain an early indication of its effectiveness.

Phase 2: The product candidate is administered to a limited patient population to identify possible adverse effects and safety risks, to preliminarily evaluate the efficacy of the product for specific targeted diseases and to determine dosage tolerance and optimal dosage.

Phase 3: The product candidate is administered to an expanded patient population, generally at geographically dispersed clinical trial sites, in well-controlled clinical trials to generate enough data to statistically evaluate the efficacy and safety of the product for approval, to establish the overall risk-benefit profile of the product, and to provide adequate information for the labeling of the product.

Progress reports detailing the results of the clinical trials must be submitted at least annually to the FDA and more frequently if serious adverse events occur. Phase 1, Phase 2, and Phase 3 clinical trials may not be completed successfully within any specified period, or at all. Furthermore, 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 are being exposed to an unacceptable health risk. Similarly, an IRB can suspend or terminate approval of a clinical trial at its institution, or an institution it represents, if the clinical trial is not being conducted in accordance with the IRB's requirements or if the drug has been associated with unexpected serious harm to patients. The FDA will typically inspect one or more clinical sites in late-stage clinical trials to assure compliance with GCP and the integrity of the clinical data submitted.

Submission of an NDA to the FDA

Assuming successful completion of required clinical testing and other requirements, the results of the preclinical and clinical studies, together with detailed information relating to the product's chemistry, manufacture, controls and proposed labeling, among other things, are submitted to the FDA as part of an NDA requesting approval to market the drug product for one or more indications. Under federal law, the submission of most NDAs is additionally subject to an application user fee, currently \$2.876 million for fiscal year 2021, for applications requiring clinical data, and the sponsor of an approved NDA is also subject to an annual program fee, currently \$336,432 for fiscal year 2021. These fees are adjusted annually.

Under certain circumstances, the FDA will waive the application fee for the first human drug application that a small business, defined as a company with less than 500 employees, including employees of affiliates, submits for review. An affiliate is defined as a business entity that has a relationship with a second business entity if one business entity controls, or has the power to control, the other business entity, or a third-party controls, or has the power to control, both entities. In addition, an application to market a prescription drug product that has received orphan designation is not subject to a prescription drug user fee unless the application includes an indication for other than the rare disease or condition for which the drug was designated. Under the Orphan Drug Act, the FDA may grant orphan designation to a drug intended to treat a disease or condition that affects fewer than 200,000 individuals in the U.S., or for which there is no reasonable expectation that U.S. sales will be sufficient to recoup the development and production costs.

The FDA conducts a preliminary review of an NDA within 60 days of its receipt and informs the sponsor by the 74th day after the FDA's receipt of the submission to determine whether the application is sufficiently complete to permit substantive review. The FDA may request additional information rather than accept an NDA for filing. In this event, the application must be resubmitted with the additional information. The resubmitted application is also subject to review before the FDA accepts it for filing. Once the submission is accepted for filing, the FDA begins an in-depth substantive review. The FDA has agreed to specified performance goals in the review process of NDAs. Most such applications are meant to be reviewed within ten months from the date of filing, and most applications for "priority review" products are meant to be reviewed within six months of filing. The review process may be extended by the FDA for three additional months to consider new information or clarification provided by the applicant to address an outstanding deficiency identified by the FDA following the original submission.

Before approving an NDA, the FDA typically will inspect the facility or facilities where the product is manufactured. The FDA will not approve an application unless it determines that the manufacturing processes and facilities are in compliance with GMP requirements and adequate to assure consistent production of the product within required specifications. Additionally, before approving an NDA, the FDA will typically inspect one or more clinical sites to assure compliance with cGCP.

The FDA also may require submission of a REMS plan to mitigate any identified or suspected serious risks. The REMS plan could include medication guides, physician communication plans, assessment plans, and elements to assure safe use, such as restricted distribution methods, patient registries, or other risk minimization tools.

The FDA is required to refer an application for a novel drug to an advisory committee or explain why such referral was not made. 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 recommendations of an advisory committee, but it considers such recommendations carefully when making decisions.

The FDA's Decision on an NDA

On the basis of the FDA's evaluation of the NDA and accompanying information, including the results of the inspection of the manufacturing facilities, the FDA may issue an approval letter or a complete response letter. An approval letter authorizes commercial marketing of the product with specific prescribing information for specific indications. A complete response letter generally outlines the deficiencies in the submission and may require substantial additional testing or information in order for the FDA to reconsider the application. If and when those deficiencies have been addressed to the FDA's satisfaction in a resubmission of the NDA, the FDA will issue an approval letter. The FDA has committed to reviewing such resubmissions in two or six months depending on the type of information included. Even with submission of this additional information, the FDA ultimately may decide that the application does not satisfy the regulatory criteria for approval.

If the FDA approves a product, it may limit the approved indications for use for the product, require that contraindications, warnings or precautions be included in the product labeling, require that post-approval studies be conducted to further assess the drug's safety after approval, require testing and surveillance programs to monitor the product after commercialization, or impose other conditions, including distribution restrictions or other risk management mechanisms,

including REMS, which can materially affect the potential market and profitability of the product. After approval, the FDA may seek to prevent or limit further marketing of a product based on the results of post-market studies or surveillance programs. 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.

Expedited Review and Accelerated Approval Programs

A sponsor may seek approval of its product candidate under programs designed to accelerate the FDA's review and approval of NDAs. For example, Fast Track Designation may be granted to a drug intended for treatment of a serious or life-threatening disease or condition and data demonstrate its potential to address unmet medical needs for the disease or condition. The key benefits of Fast Track Designation are the eligibility for priority review, rolling review (submission of portions of an application before the complete marketing application is submitted), and accelerated approval, if relevant criteria are met. The FDA may grant the NDA a priority review designation, which sets the target date for FDA action on the application at six months after the FDA accepts the application for filing. Priority review is granted where 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. Priority review designation does not change the scientific/medical standard for approval or the quality of evidence necessary to support approval.

The FDA may approve an NDA under the accelerated approval program if the drug treats a serious condition, provides a meaningful advantage over available therapies, and demonstrates an effect on either (1) a surrogate endpoint that is reasonably likely to predict clinical benefit, or (2) on a clinical endpoint that can be measured earlier than irreversible morbidity or mortality, that is reasonably likely to predict an effect on irreversible morbidity or mortality or other clinical benefit, taking into account the severity, rarity, or prevalence of the condition and the availability or lack of alternative treatments. Post-marketing studies or completion of ongoing studies after marketing approval are generally required to verify the drug's clinical benefit in relationship to the surrogate endpoint or ultimate outcome in relationship to the clinical benefit.

In addition, the Food and Drug Administration Safety and Innovation Act of 2012, or FDASIA, established the Breakthrough Therapy designation. A sponsor may seek FDA designation of its product candidate as a breakthrough therapy if the drug is intended, alone or in combination with one or more other drugs, to treat a serious or life-threatening disease or condition and preliminary clinical evidence indicates that the drug may demonstrate substantial improvement over existing therapies on one or more clinically significant endpoints, such as substantial treatment effects observed early in clinical development. If a drug is designated as breakthrough therapy, FDA will provide more intensive guidance on the drug development program and expedite its review.

Fast track designation, breakthrough therapy designation, priority review, and accelerated approval do not change the standards for approval, but may expedite the development or approval process. 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 that the time period for FDA review or approval will not be shortened. We may explore some of these opportunities for our product candidates as appropriate.

Post-Approval Requirements

Drugs manufactured or distributed pursuant to FDA approvals are subject to pervasive and continuing regulation by the FDA, including, among other things, requirements relating to recordkeeping, periodic reporting, product sampling and distribution, advertising and promotion and reporting of adverse experiences with the product. After approval, most changes to the approved product, such as adding new indications or other labeling claims, are subject to prior FDA review and approval. There also are continuing, annual user fee requirements for any marketed products and the establishments at which such products are manufactured, as well as new application fees for supplemental applications with clinical data.

In addition, drug manufacturers and other entities involved in the manufacture and distribution of approved drugs are required to register their establishments with the FDA and state agencies and are subject to periodic unannounced inspections by the FDA and these state agencies for compliance with cGMP requirements. Changes to the manufacturing process are strictly regulated and often require prior FDA approval before being implemented.

FDA regulations also require investigation and correction of any deviations from cGMP and impose reporting and documentation requirements upon the sponsor and any third-party manufacturers that the sponsor may decide to use. Accordingly, manufacturers must continue to expend time, money, and effort in the area of production and quality control to maintain cGMP compliance.

Once an approval is granted, the FDA may withdraw the approval if compliance with regulatory requirements and standards is not maintained or if problems occur after the product reaches the market. Later discovery of previously unknown

problems with a product, including adverse events or problems with manufacturing processes of unanticipated severity or frequency, or 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 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 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 license approvals;
- product seizure or detention, or refusal to permit the import or export of products; or
- injunctions or the imposition of civil or criminal penalties.

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 criminal and civil liability.

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.

Hatch-Waxman Patent Certification and the 30 Month Stay

Upon approval of an NDA or a supplement thereto, NDA sponsors are required to list with the FDA each patent with claims that cover the applicant's product or a method of using the product. Each of the patents listed by the NDA sponsor is published in the Orange Book. When an ANDA applicant files its application with the FDA, the applicant is required to certify to the FDA concerning any patents listed for the reference product in the Orange Book, except for patents covering methods of use for which the ANDA applicant is not seeking approval.

Specifically, the applicant must certify with respect to each patent that:

- the required patent information has not been filed;
- the listed patent has expired;
- the listed patent has not expired, but will expire on a particular date and approval is sought after patent expiration; or
- the listed patent is invalid, unenforceable or will not be infringed by the new product.

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

To the extent that a Section 505(b)(2) applicant is relying on studies conducted for an already approved product, the applicant is required to certify to the FDA concerning any patents listed for the approved product in the Orange Book to the same extent that an ANDA applicant would. As a result, approval of a 505(b)(2) NDA can be stalled until all the listed patents claiming the referenced product have expired, until any non-patent exclusivity, such as exclusivity for obtaining approval of a new chemical entity, listed in the Orange Book for the referenced product has expired, and, in the case of a Paragraph IV certification and subsequent patent infringement suit, until the earlier of 30 months, settlement of the lawsuit or a decision in the infringement case that is favorable to the Section 505(b)(2) applicant.

Legislative Developments

The 21st Century Cures Act, or the Cures Act, which was signed into law in December 2016, includes provisions to accelerate the development and delivery of new treatments. For example, the Cures Act requires the FDA to establish a program to evaluate the potential use of real world evidence to help to support the approval of a new indication for an approved drug and to help to support or satisfy post-approval study requirements, to issue guidance on adaptive and novel clinical trial designs for new drugs, and to establish a process for qualifying drug development tools used to support FDA approval for marketing or investigational use of a drug. The Cures Act also permits the FDA to rely on qualified data summaries to support the approval of a supplemental application for an already approved drug. The FDA is in the process of implementing the Cures Act requirements.

Review and Approval of Drug Products in the European Union

In order to market any pharmaceutical product outside of the United States, a company must also comply with numerous and varying regulatory requirements of other countries and jurisdictions governing, among other things, research and development, testing, manufacturing, quality control, safety, efficacy, labeling, clinical trials, marketing authorization, packaging, storage, record keeping, reporting, export and import, advertising, marketing and other promotional practices involving pharmaceutical products, as well as commercial sales, distribution, authorization, approval and post-approval monitoring and reporting of our products. Whether or not it obtains FDA approval for a pharmaceutical product, the company would need to obtain the necessary approvals by the comparable foreign regulatory authorities before it can commence clinical trials or marketing of the pharmaceutical product in those countries or jurisdictions. The approval process ultimately varies between countries and jurisdictions and can involve additional product 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.

Drug Development Process

The conduct of clinical trials is currently governed by the EU Clinical Trials Directive 2001/20/EC, or Clinical Trials Directive, and will be replaced by the EU Clinical Trials Regulation (EU) No. 536/2014 (“CTR”) once the latter comes into effect. The CTR introduces a complete overhaul of the existing regulation of clinical trials for medicinal products in the EU. It entered into force on January 31, 2022. Under the current regime, which will expire after a transition period of one or three years, respectively, as outlined below in more detail, before a clinical trial can be initiated it must be approved in each EU Member State where there is a site at which the trial is to be conducted. The approval must be obtained from two separate entities: the National Competent Authority (“NCA”) and one or more Ethics Committees. The NCA of the EU Member States in which the clinical trial will be conducted must authorize the conduct of the trial, and the independent Ethics Committee must grant a positive opinion in relation to the conduct of the clinical trial in the relevant EU Member State before the commencement of the trial. Any substantial changes to the trial protocol or other information submitted with the clinical trial applications must be submitted to or approved by the relevant NCA and Ethics Committees. Under the current regime all suspected unexpected serious adverse reactions to the investigated drug that occur during the clinical trial must be reported to the NCA and to the Ethics Committees of the EU Member State where they occur.

A more unified procedure will apply under the new CTR. A sponsor will be able to submit a single application for approval of a clinical trial through a centralized EU clinical trials portal. One national regulatory authority (the reporting EU Member State proposed by the applicant) will take the lead in validating and evaluating the application consult and coordinate with the other concerned Member States. If an application is rejected, it may be amended and resubmitted through the EU clinical trials portal. If an approval is issued, the sponsor may start the clinical trial in all concerned Member States. However, a concerned EU Member State may in limited circumstances declare an “opt-out” from an approval and prevent the clinical trial from being conducted in such Member State. The CTR also aims to streamline and simplify the rules on safety reporting, and introduces enhanced transparency requirements such as mandatory submission of a summary of the clinical trial results to the EU Database. The CTR foresees a three-year transition period. Member States will work in CTIS immediately after the system has gone live. For one year, until 31 January 2023, clinical trial sponsors can still choose whether to submit an initial clinical trial application in line with the current system (Clinical Trials Directive) or via CTIS. From 31 January 2023, submission of initial clinical trial applications via CTIS becomes mandatory, and by 31 January 2025, all ongoing trials approved under the current Clinical Trials Directive will be governed by the new Regulation and have to be transitioned to CTIS.

Under both the current regime and the new CTR, national laws, regulations, and the applicable Good Clinical Practice and Good Laboratory Practice standards must also be respected during the conduct of the trials, including the International Council for Harmonization of Technical Requirements for Pharmaceuticals for Human Use (“ICH”) guidelines on Good

Clinical Practice (“GCP”) and the ethical principles that have their origin in the Declaration of Helsinki.

During the development of a medicinal product, the European Medical Agency (“EMA”) and national regulators within the EU provide the opportunity for dialogue and guidance on the development program. At the EMA level, this is usually done in the form of scientific advice, which is given by the Committee for Medicinal Products for Human Use (“CHMP”) on the recommendation of the Scientific Advice Working Party (“SAWP”). A fee is incurred with each scientific advice procedure, but is significantly reduced for designated orphan medicines. Advice from the EMA is typically provided based on questions concerning, for example, quality (chemistry, manufacturing and controls testing), nonclinical testing and clinical studies, and pharmacovigilance plans and risk-management programs. Advice is not legally binding with regard to any future Marketing Authorization Application (“MAA”) of the product concerned.

Marketing Authorization Procedures

In the EU and in Iceland, Norway and Liechtenstein (together the European Economic Area or “EEA”), after completion of all required clinical testing, pharmaceutical products may only be placed on the market after obtaining a Marketing Authorization (“MA”). To obtain an MA of a drug under European Union regulatory systems, an applicant can submit an MAA through, amongst others, a centralized or decentralized procedure.

The centralized procedure provides for the grant of a single MA by the European Commission (EC) that is valid for all EU Member States and, after respective national implementing decisions, in the three additional EEA Member States. The centralized procedure is compulsory for specific medicinal products, including for medicines developed by means of certain biotechnological processes, products designated as orphan medicinal products, advanced therapy medicinal products (“ATMP”) and medicinal products with a new active substance indicated for the treatment of certain diseases (AIDS, cancer, neurodegenerative disorders, diabetes, auto-immune and viral diseases). For medicinal products containing a new active substance not yet authorized in the EEA before May 20, 2004 and indicated for the treatment of other diseases, medicinal products that constitute significant therapeutic, scientific or technical innovations or for which the grant of a MA through the centralized procedure would be in the interest of public health at EU level, an applicant may voluntarily submit an application for a marketing authorization through the centralized procedure.

Under the centralized procedure, the Committee for Medicinal Products for Human Use (“CHMP”), established at the EMA, is responsible for conducting the initial assessment of a drug. The CHMP is also responsible for several post-authorization and maintenance activities, such as the assessment of modifications or extensions to an existing marketing authorization. Under the centralized procedure, the timeframe for the evaluation of an MAA by the EMA’s CHMP is, in principle, 210 days from receipt of a valid MAA. However, this timeline excludes clock stops, when additional written or oral information is to be provided by the applicant in response to questions asked by the CHMP, so the overall process typically takes a year or more, unless the application is eligible for an accelerated assessment. Accelerated assessment might be granted by the CHMP in exceptional cases when a medicinal product is of major interest from the point of view of public health and in particular from the viewpoint of therapeutic innovation. On request, the CHMP can reduce the time frame to 150 days if the applicant provides sufficient justification for an accelerated assessment. The CHMP will provide a positive opinion regarding the application only if it meets certain quality, safety and efficacy requirements. However, the EC has final authority for granting the MA within 67 days after receipt of the CHMP opinion.

The decentralized procedure permits companies to file identical MA applications for a medicinal product to the competent authorities in various EU Member States simultaneously if such medicinal product has not received marketing approval in any EU Member State before. This procedure is available for pharmaceutical products not falling within the mandatory scope of the centralized procedure. The competent authority of a single EU Member State, known as the reference EU Member State, is appointed to review the application and provide an assessment report. Under this procedure, an applicant submits an application based on identical dossiers and related materials, including a draft summary of product characteristics, and draft labeling and package leaflet, to the reference EU Member State and concerned EU Member States. The reference EU Member State prepares a draft assessment report and drafts of the related materials within 120 days after receipt of a valid application. Subsequently each concerned EU Member State must decide whether to approve the assessment report and related materials.

If an EU Member State cannot approve the assessment report and related materials on the grounds of potential serious risk to public health, the disputed points are subject to a dispute resolution mechanism and may eventually be referred to the EC, whose decision is binding for all EU Member States.

All new MAAs must include a Risk Management Plan (“RMP”), describing the risk management system that the company will put in place and documenting measures to prevent or minimize the risks associated with the product. The regulatory authorities may also impose specific obligations as a condition of the MA. RMPs and Periodic Safety Update Reports (“PSURs”) are routinely available to third parties requesting access, subject to limited redactions.

Marketing Authorizations have an initial duration of five years. After these five years, the authorization may subsequently be renewed on the basis of a reevaluation of the risk-benefit balance. Once renewed, the MA is valid for an unlimited period

unless the EC or the national competent authority decides, on justified grounds relating to pharmacovigilance, to proceed with only one additional five-year renewal. Applications for renewal must be made to the EMA at least nine months before the five-year period expires.

Data and Market Exclusivity in the European Union

As in the United States, it may be possible to obtain a period of market and/or data exclusivity in the EU that would have the effect of postponing the entry into the marketplace of a competitor's generic, hybrid or biosimilar product (even if the pharmaceutical product has already received a MA) and prohibiting another applicant from relying on the MA holder's pharmacological, toxicological and clinical data in support of another MA for the purposes of submitting an application, obtaining MA or placing the product on the market. New Chemical Entities ("NCE") approved in the EU qualify for eight years of data exclusivity and 10 years of marketing exclusivity.

An additional non-cumulative one-year period of marketing exclusivity is possible if during the data exclusivity period (the first eight years of the 10-year marketing exclusivity period), the MA holder obtains an authorization for one or more new therapeutic indications that are deemed to bring a significant clinical benefit compared to existing therapies.

The data exclusivity period begins on the date of the product's first MA in the EU. After eight years, a generic product application may be submitted and generic companies may rely on the MA holder's data. However, a generic product cannot launch until two years later (or a total of 10 years after the first MA in the EU of the innovator product), or three years later (or a total of 11 years after the first MA in the EU of the innovator product) if the MA holder obtains MA for a new indication with significant clinical benefit within the eight-year data exclusivity period. Additionally, another noncumulative one-year period of data exclusivity can be added to the eight years of data exclusivity where an application is made for a new indication for a well-established substance, provided that significant pre-clinical or clinical studies were carried out in relation to the new indication. Another year of data exclusivity may be added to the eight years, where a change of classification of a pharmaceutical product has been authorized on the basis of significant pre-trial tests or clinical trials (when examining an application by another applicant for or holder of market authorization for a change of classification of the same substance the competent authority will not refer to the results of those tests or trials for one year after the initial change was authorized).

Products may not be granted data exclusivity since there is no guarantee that a product will be considered by the European Union's regulatory authorities to include a NCE. Even if a compound is considered to be a NCE and the MA applicant is able to gain the prescribed period of data exclusivity, another company nevertheless could also market another version of the medicinal product if such company can complete a full MAA with their own complete database of pharmaceutical tests, preclinical studies and clinical trials and obtain MA of its product.

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. The EMA grants orphan drug designation if the medicinal product is intended for the diagnosis, prevention or treatment of a life-threatening or chronically debilitating condition affecting no more than five in 10,000 persons in the European Union (prevalence criterion). In addition, Orphan Drug Designation can be granted if, for economic reasons, the medicinal product would be unlikely to be developed without incentives and if there is no other satisfactory method approved in the European Union of diagnosing, preventing, or treating the condition, or if such a method exists, the proposed medicinal product is a significant benefit to patients affected by the condition. An application for orphan drug designation (which is not a marketing authorization, as not all orphan-designated medicines reach the authorization application stage) must be submitted first before an application for marketing authorization of the medicinal product is submitted. The applicant will receive a fee reduction for the marketing authorization application if the orphan drug designation has been granted, but not if the designation is still pending at the time the marketing authorization is submitted, and sponsors must submit an annual report to EMA summarizing the status of development of the medicine. Orphan drug designation does not convey any advantage in, or shorten the duration of, the regulatory review and approval process. Designated orphan medicines are eligible for conditional marketing authorization.

The EMA's Committee for Orphan Medicinal Products reassesses the orphan drug designation of a product in parallel with the review for a marketing authorization; for a product to benefit from market exclusivity it must maintain its orphan drug designation at the time of marketing authorization review by the EMA and approval by the EC. Additionally, any marketing authorization granted for an orphan medicinal product must only cover the therapeutic indication(s) that are covered by the orphan drug designation. Upon the grant of a marketing authorization, orphan drug designation provides up to ten years of market exclusivity in the orphan indication.

During the 10-year period of market exclusivity, with a limited number of exceptions, the regulatory authorities of the EU Member States and the EMA may not accept applications for marketing authorization, accept an application to extend an existing marketing authorization or grant marketing authorization for other similar medicinal products for the same therapeutic indication. A similar medicinal product is defined as a medicinal product containing a similar active substance or substances

as contained in a currently authorized orphan medicinal product, and which is intended for the same therapeutic indication. An orphan medicinal product can also obtain an additional two years of market exclusivity for an orphan-designated condition when the results of specific studies are reflected in the Summary of Product Characteristics (“SmPC”), addressing the pediatric population and completed in accordance with a fully compliant Pediatric Investigation Plan (“PIP”). No extension to any supplementary protection certificate can be granted on the basis of pediatric studies for orphan indications.

The 10-year market exclusivity 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, i.e. the condition prevalence or financial returns criteria under Article 3 of Regulation (EC) No. 141/2000 on orphan medicinal products. When the period of orphan market exclusivity for an indication ends, the orphan drug designation for that indication expires as well. Orphan exclusivity runs in parallel with normal rules on data exclusivity and market protection. Additionally, a marketing authorization may be granted to a similar medicinal product (orphan or not) for the same or overlapping indication subject to certain requirements.

Pediatric Development

In the European Union, companies developing a new medicinal product are obligated to study their product in children and must therefore submit a PIP together with a request for agreement to the EMA. The EMA issues a decision on the PIP based on an opinion of the EMA’s Pediatric Committee, or PDCO. Companies must conduct pediatric clinical trials in accordance with the PIP approved by the EMA, unless a deferral (e.g., until enough information to demonstrate its effectiveness and safety in adults is available) or waiver (e.g., because the relevant disease or condition occurs only in adults) has been granted by the EMA. The marketing authorization application for the product must include the results of all pediatric clinical trials performed and details of all information collected in compliance with the approved PIP, unless a waiver or a deferral has been granted, in which case the pediatric clinical trials may be completed at a later date. Medical products that are granted a marketing authorization on the basis of the pediatric clinical trials conducted in accordance with the approved PIP are eligible for a six month extension of the protection under a supplementary protection certificate (if any is in effect at the time of approval) or, in the case of orphan medicinal products, a two year extension of the orphan market exclusivity. This pediatric reward is subject to specific conditions and is not automatically available when data in compliance with the approved PIP are developed and submitted. An approved PIP is also required when a marketing-authorization holder wants to add a new indication, pharmaceutical form or route of administration for a medicine that is already authorized and covered by intellectual property rights.

Post-Approval Regulation

Similar to the United States, both MA holders and manufacturers of medicinal products are subject to comprehensive regulatory oversight by the EMA, the EC and/or the competent regulatory authorities of the EU Member States. This oversight applies both before and after grant of manufacturing licenses and marketing authorizations. It includes control of compliance with EU good manufacturing practices rules, manufacturing authorizations, pharmacovigilance rules and requirements governing advertising, promotion, sale, and distribution, recordkeeping, importing and exporting of medicinal products.

Failure by us or by any of our third-party partners, including suppliers, manufacturers and distributors to comply with EU laws and the related national laws of the individual EU Member States governing the conduct of clinical trials, manufacturing approval, MA of pharmaceutical products and marketing of such products, both before and after grant of MA, manufacturing of pharmaceutical products, statutory health insurance, bribery and anti-corruption or with other applicable regulatory requirements may result in administrative, civil or criminal penalties. These penalties could include delays or refusal to authorize the conduct of clinical trials or to grant MA, product withdrawals and recalls, product seizures, suspension, withdrawal or variation of the MA, total or partial suspension of production, distribution, manufacturing or clinical trials, operating restrictions, injunctions, suspension of licenses, fines and criminal penalties.

The holder of a MA for a medicinal product must also comply with EU pharmacovigilance legislation and its related regulations and guidelines, which entail many requirements for conducting pharmacovigilance, or the assessment and monitoring of the safety of medicinal products.

These pharmacovigilance rules can impose on holders of MAs the obligation to conduct a labor intensive collection of data regarding the risks and benefits of marketed medicinal products and to engage in ongoing assessments of those risks and benefits, including the possible requirement to conduct additional clinical studies or post-authorization safety studies to obtain further information on a medicine’s safety, or to measure the effectiveness of risk-management measures, which may be time consuming and expensive and could impact our profitability. MA holders must establish and maintain a pharmacovigilance system and appoint an individual qualified person for pharmacovigilance, who is responsible for oversight of that system. Key obligations include expedited reporting of suspected serious adverse reactions and submission of PSURs in relation to medicinal products for which they hold MAs. The EMA reviews PSURs for medicinal products authorized through the centralized procedure. If the EMA has concerns that the riskbenefit profile of a product has varied, it can adopt an opinion advising that the existing MA for the product be suspended, withdrawn or varied. The agency can advise that the MA holder be obliged to conduct post-authorization Phase IV safety studies. If the EC agrees with the opinion, it can adopt a decision varying the

existing MA. Failure by the MA holder to fulfill the obligations for which the EC's decision provides can undermine the ongoing validity of the MA.

More generally, non-compliance with pharmacovigilance obligations can lead to the variation, suspension or withdrawal of the MA for the product or imposition of financial penalties or other enforcement measures.

The manufacturing process for pharmaceutical products in the European Union is highly regulated and regulators may shut down manufacturing facilities that they believe do not comply with regulations. Manufacturing requires a manufacturing authorization, and the manufacturing authorization holder must comply with various requirements set out in the applicable EU laws, regulations and guidance, including Directive 2001/83/EC, Directive 2003/94/EC, Regulation (EC) No 726/2004 and the European Commission Guidelines for Good Manufacturing Practice ("GMP"). These requirements include compliance with EU GMP standards when manufacturing pharmaceutical products and active pharmaceutical ingredients, including the manufacture of active pharmaceutical ingredients outside of the European Union with the intention to import the active pharmaceutical ingredients into the European Union.

Similarly, the distribution of pharmaceutical products into and within the European Union is subject to compliance with the applicable EU laws, regulations and guidelines, including the requirement to hold appropriate authorizations for distribution granted by the competent authorities of the EU Member States. The manufacturer or importer must have a qualified person who is responsible for certifying that each batch of product has been manufactured in accordance with GMP, before releasing the product for commercial distribution in the European Union or for use in a clinical trial. Manufacturing facilities are subject to periodic inspections by the competent authorities for compliance with GMP.

Advertising and Promotion

The advertising and promotion of our products is also subject to EU laws concerning promotion of medicinal products, interactions with physicians, misleading and comparative advertising and unfair commercial practices. In addition, other national legislation of individual EU Member States may apply to the advertising and promotion of medicinal products and may differ from one country to another. These laws require that promotional materials and advertising in relation to medicinal products comply with the product's SmPC as approved by the competent regulatory authorities. The SmPC is the document that provides information to physicians concerning the safe and effective use of the medicinal product. It forms an intrinsic and integral part of the marketing authorization granted for the medicinal product. Promotion of a medicinal product that does not comply with the SmPC is considered to constitute off-label promotion. All advertising and promotional activities for the product must be consistent with the approved SmPC and therefore all off-label promotion is prohibited. Direct-to-consumer advertising of prescription-only medicines is also prohibited in the EU. Violations of the rules governing the promotion of medicinal products in the European Union could be penalized by administrative measures, fines and imprisonment. These laws may further limit or restrict the advertising and promotion of our products to the general public and may also impose limitations on its promotional activities with healthcare professionals.

Pricing and Reimbursement Environment

Even if a pharmaceutical product obtains a marketing authorization in the European Union, there can be no assurance that reimbursement for such product will be secured on a timely basis or at all. The EU Member States are free to restrict the range of pharmaceutical products for which their national health insurance systems provide reimbursement, and to control the prices and reimbursement levels of pharmaceutical products for human use. An EU Member State may approve a specific price or level of reimbursement for the pharmaceutical product, or alternatively adopt a system of direct or indirect controls on the profitability of the company responsible for placing the pharmaceutical product on the market, including volume-based arrangements, caps and reference pricing mechanisms.

Reference pricing used by various EU Member States and parallel distribution, or arbitrage between low-priced and high-priced member states, can further reduce prices. In some countries, we may be required to conduct a clinical study or other studies that compare the cost-effectiveness of our product candidates, if any, to other available therapies in order to obtain or maintain reimbursement or pricing approval. There can be no assurance that any country that has price controls or reimbursement limitations for pharmaceutical products will allow favorable reimbursement and pricing arrangements for any of our products. Historically, pharmaceutical products launched in the European Union do not follow price structures of the United States and generally published and actual prices tend to be significantly lower. Publication of discounts by third party payers or authorities and public tenders may lead to further pressure on the prices or reimbursement levels within the country of publication and other countries.

The so-called health technology assessment ("HTA"), of pharmaceutical products is becoming an increasingly common part of the pricing and reimbursement procedures in some EU Member States, including France, Germany, Ireland, Italy and Sweden. The HTA process, which is governed by the national laws of these countries, is the procedure according to which the assessment of the public health impact, therapeutic impact, and the economic and societal impact of use of a given pharmaceutical product in the national healthcare systems of the individual country is conducted. HTA generally focuses on

the clinical efficacy and effectiveness, safety, cost, and cost-effectiveness of individual pharmaceutical products as well as their potential implications for the healthcare system. Those elements of pharmaceutical products are compared with other treatment options available on the market. The outcome of HTA regarding specific pharmaceutical products will often influence the pricing and reimbursement status granted to pharmaceutical products by the regulatory authorities of individual EU Member States. A negative HTA of one of our products by a leading and recognized HTA body could not only undermine our ability to obtain reimbursement for such product in the EU Member State in which such negative assessment was issued, but also in other EU Member States. For example, EU Member States that have not yet developed HTA mechanisms could rely to some extent on the HTA performed in other countries with a developed HTA framework, when adopting decisions concerning the pricing and reimbursement of a specific pharmaceutical product.

On January 31, 2018, the European Commission adopted a proposal for a regulation on health technology assessment. This legislative proposal is intended to boost EU level cooperation among EU Member States in assessing health technologies, including new pharmaceutical products, and providing the basis for cooperation at the EU level for joint clinical assessments in these areas. The proposal provides that EU Member States will be able to use common HTA tools, methodologies and procedures across the European Union, working together in four main areas, including joint clinical assessment of the innovative health technologies with the most potential impact for patients, joint scientific consultations whereby developers can seek advice from HTA authorities, identification of emerging health technologies to identify promising technologies early, and continuing voluntary cooperation in other areas. Individual EU Member States will continue to be responsible for assessing non-clinical (e.g., economic, social, ethical) aspects of health technology, and making decisions on pricing and reimbursement. While EU Member States could choose to delay participation in the joint work until three years after the rules enter into force, it will become mandatory after six years. The European Commission has stated that the role of the HTA regulation is not to influence pricing and reimbursement decisions in the individual EU Member States, but there can be no assurance that the HTA regulation will not have effects on pricing and reimbursement decisions. The HTA entered into force on January 11, 2022 and applies as of January 2025 followed by a further three-year transitional period during which EU member states must fully adapt to the new system.

To obtain reimbursement or pricing approval in some countries, including the EU Member States, we may be required to conduct studies that compare the cost-effectiveness of our product candidates to other therapies that are considered the local standard of care. There can be no assurance that any country will allow favorable pricing, reimbursement and market access conditions for any of our products, or that we will be feasible to conduct additional cost-effectiveness studies, if required.

In certain of the EU Member States, pharmaceutical products that are designated as orphan pharmaceutical products may be exempted or waived from having to provide certain clinical, cost-effectiveness and other economic data in connection with their filings for pricing/reimbursement approval.

European Data Laws

The collection and use of personal health data and other personal information in the European Union is governed by the provisions of the European General Data Protection Regulation (EU) 2016/679) (“GDPR”), which came into force in May 2018 and related implementing laws in individual EU Member States.

The GDPR imposes a number of strict obligations and restrictions on the ability to process (processing includes collection, analysis and transfer of) personal data of individuals within the European Union and in the EEA, including health data from clinical trials and adverse event reporting. The GDPR also includes requirements relating to the consent of the individuals to whom the personal data relates, the information provided to the individuals prior to processing their personal data or personal health data, notification of data processing obligations to the national data protection authorities and the security and confidentiality of the personal data. EU Member States may also impose additional requirements in relation to health, genetic and biometric data through their national implementing legislation.

Under the GDPR, personal data can only be transferred within the EU Member States and the three additional European Economic Area countries (Norway, Iceland and Liechtenstein) that have adopted a national law implementing the GDPR. Appropriate safeguards are required to enable cross-border transfers of personal data from the EU and EEA Member States to a “third country” (a country outside the EU or EEA). This status has a number of significant practical consequences, in particular for international data transfers, competent supervisory authorities and enforcement of the GDPR.

In conclusion, the GDPR prohibits the transfer of personal data to countries outside of the European Union/EEA (including the United States) that are not considered by the European Commission to provide an adequate level of data protection, except if the data controller meets very specific requirements such as the use of standard contractual clauses (“SCCs”), issued by the European Commission. In this respect recent legal developments in Europe have created complexity and compliance uncertainty regarding certain transfers of personal data from the EU/EEA. For example, following the Schrems II decision of the Court of Justice of the European Union on July 16, 2020, in which the Court invalidated the Privacy Shield under which personal data could be transferred from the EU/EEA to United States entities who had self-certified under the

Privacy Shield scheme, there is uncertainty as to the general permissibility of international data transfers under the GDPR. The Court did not invalidate the then current SCCs, but ruled that data exporters relying on these SCCs are required to verify, on a case-by-case basis, if the law of the third country ensures an adequate level of data protection that is essentially equivalent to that guaranteed in the EU/EEA. In light of the implications of this decision we may face difficulties regarding the transfer of personal data from the European Union/EEA to third countries. However, on June 4, 2021 the EU Commission issued a new set of SCCs for data transfers from controllers or processors in the EU/EEA to controllers or processors established outside the EU/EEA. These SCCs replace the old sets of SCCs that were adopted under the previous European Data Protection Directive 95/46. Since September 27, 2021, it is no longer possible to conclude contracts incorporating these previous versions of the SCCs. In addition, for contracts concluded before September 27, 2021, it is still possible to rely on the previous SCCs until the end of an additional 15 months transitional period (until December 27, 2022), provided that the processing operations which are the subject matter of the contract remain unchanged and reliance on previous SCCs ensures that the transfer is subject to appropriate safeguards. On November 11, 2021, the European Data Protection Board has adopted recommendations on such appropriate safeguards that supplement transfer mechanisms. These recommendations aim to assist data exporters with their duty to identify and implement appropriate supplementary measures where they are needed to ensure an essentially equivalent level of protection to the personal data they transfer to third countries.

Failure to comply with the requirements of the GDPR and the related national data protection laws of the EU Member States may result in significant monetary fines for noncompliance of up to €20 million or 4% of the annual global revenues of the noncompliant company, whichever is greater, other administrative penalties and a number of criminal offenses (punishable by uncapped fines) for organizations and in certain cases their directors and officers as well as civil liability claims from individuals whose personal data was processed. Data protection authorities from the different EU Member States may still implement certain variations, enforce the GDPR and national data protection laws differently, and introduce additional national regulations and guidelines, which adds to the complexity of processing personal data in the European Union. Guidance developed at both EU level and at the national level in individual EU Member States concerning implementation and compliance practices are often updated or otherwise revised.

There is, moreover, a growing trend towards required public disclosure of clinical trial data in the European Union which adds to the complexity of obligations relating to processing health data from clinical trials. Such public disclosure obligations are provided in the new EU CTR, EMA disclosure initiatives and voluntary commitments by industry. Failing to comply with these obligations could lead to government enforcement actions and significant penalties against us, harm to our reputation, and adversely impact our business and operating results. The uncertainty regarding the interplay between different regulatory frameworks, such as the Clinical Trials Regulation and the GDPR, further adds to the complexity that we face with regard to data protection regulation.

On June 28, 2021 the European Commission adopted two adequacy decisions for the United Kingdom – one under the GDPR and the other for the Law Enforcement Directive. Personal data may now freely flow from the European Union to the United Kingdom since the United Kingdom is deemed to have an adequate data protection level. Additionally, following the UK's withdrawal from the European Union and the EEA, companies also have to comply with the UK's data protection laws (including the UK GDPR, which is based on the EU GDPR), which has the ability to separately fine up to the greater of £17.5 million or 4% of global turnover. The adequacy decisions include a 'sunset clause' which entails that the decisions will automatically expire four years after their entry into force.

Promotional Activities

In the European Union, interactions between pharmaceutical companies and physicians are also governed by strict laws, regulations, industry self-regulation codes of conduct and physicians' codes of professional conduct both at EU level and in the individual EU Member States (at a national or regional level). The provision of benefits or advantages to physicians to induce or encourage the prescription, recommendation, endorsement, purchase, supply, order or use of pharmaceutical products is prohibited in the EU. The provision of benefits or advantages to physicians is also governed by the national anti-bribery laws of the EU Member States. Violation of these laws could result in substantial fines and imprisonment.

Payments made to physicians in certain EU Member States must be publicly disclosed. Moreover, agreements with physicians must often be the subject of prior notification and approval by the physician's employer, his/her regulatory professional organization, and/or the competent authorities of the individual EU Member States. These requirements are provided in the national laws, industry codes, or professional codes of conduct, applicable in the individual EU Member States (at a national or regional level). Failure to comply with these requirements could result in reputational risk, public reprimands, exclusion from public tenders, administrative penalties, fines or imprisonment.

While the UK has left the EU, as mentioned above, it should be noted that the UK still has the strictest anti-bribery regime in Europe, the UK Bribery Act 2010. The Act is applicable English law and continues to apply to any company incorporated in or "carrying on business" in the United Kingdom, irrespective of where in the world the alleged bribery activity occurs.

Other Legislation Regarding Marketing, Authorization and Pricing of Pharmaceutical Products in the European Union

Other core legislation relating to the marketing, authorization and pricing of pharmaceutical products in the European Union includes the following:

- Directive 2001/83/EC, establishing the requirements and procedures governing the marketing authorization for medicinal products for human use, as well as the rules for the constant supervision of products following authorization. This Directive has been amended several times, most recently by Directive 2012/26/EU regarding pharmacovigilance, and the Falsified Medicines Directive 2011/62/EU.
- Regulation (EC) 726/2004, as amended, establishing procedures for the authorization, supervision and pharmacovigilance of medicinal products for human and veterinary use and establishing the EMA.
- Regulation (EC) 469/2009, establishing the requirements necessary to obtain a Supplementary Protection Certificate, which extends the period of patent protection applicable to medicinal products at the EU-level.
- Directive 89/105/EEC, ensuring the transparency of measures taken by the European Union member states to set the prices and reimbursements of medicinal products. Specifically, while each member state has competence over the pricing and reimbursement of medicines for human use, they must also comply with this Directive, which establishes procedures to ensure that member state decisions and policies do not obstruct trade in medicinal products. The European Commission proposed to repeal and replace Directive 89/105/EEC, but this proposal was withdrawn in 2015.
- Directive 2003/94/EC, laying down the principles of good manufacturing practice in respect of medicinal products and investigational medicinal products for human use (the GMP Directive).
- Directive 2005/28/EC of April 8 2005, laying down principles and detailed guidelines for good clinical practice as regards investigational medicinal products for human use, as well as the requirements for authorization of the manufacturing or importation of such products” (the GCP Directive).

New Legislation and Regulations

From time to time, legislation is drafted, introduced and passed in the European Union, its member states and other states of Europe that could significantly change the statutory provisions governing the testing, approval, manufacturing, marketing, coverage and reimbursement of pharmaceutical products. In addition to new legislation, pharmaceutical regulations and policies are often revised or interpreted by the EMA and national agencies in ways that may significantly affect our business and our products.

The United Kingdom (“UK”) formally left the EU on January 31, 2020 and the transition period, during which EU laws continued to apply to the UK, expired on December 31, 2020. This means EU laws now only apply to the UK in respect of Northern Ireland as laid out in the Protocol on Ireland and Northern Ireland. Following the end of the transition period, the EU and the UK concluded a trade and cooperation agreement (“TCA”), which applied provisionally from January 1, 2021 and entered into force on May 1, 2021.

The TCA includes provisions affecting the life sciences sector (including on customs and tariffs) but areas for further discussion between the EU and the UK remain. In addition, there are some specific provisions concerning pharmaceuticals. These include the mutual recognition of Good Manufacturing Practice (“GMP”) and issued GMP documents. The TCA does not, however, contain wholesale mutual recognition of UK and EU pharmaceutical regulations and product standards.

Since January 1, 2021, the EU laws which have been transposed into UK law through secondary legislation continue to be applicable in the UK as “retained EU law”. As there is no general power to amend these regulations, the UK government has enacted the Medicines and Medical Devices Act 2021. The purpose of the act is to enable the existing regulatory frameworks in relation to human medicines, clinical trials of human medicines, veterinary medicines and medical devices to be updated. The powers under the act may only be exercised in relation to specified matters and must safeguard public health.

Specified provisions of the Medicines and Medical Devices Act 2021 entered into force on February 11, 2021. The remaining provisions came into effect within two months of February 11, 2021 or will otherwise come into effect as stipulated in subsequent statutory instruments. The Medicines and Medical Devices Act 2021 supplements the UK Medical Devices Regulations 2002 (“UK Regulations”), which are based on the EU Medical Devices Directive as amended to reflect the UK’s post-Brexit regulatory regime. Notably, the UK Regulations do not include any of the revisions that have been made by the EU Medical Devices Regulation (EU) 2017/745, which, since May 26, 2021, now applies in all EU Member States.

The UK’s Medicines and Healthcare products Regulatory Agency (“MHRA”) conducted a comprehensive consultation between September and November 2021 on proposals to develop a new UK regime for medical devices in the UK. The

proposals include more closely aligning definitions for medical devices and in vitro medical devices with internationally recognised definitions and changing the classification of medical devices according to levels or risk. The proposals are intended to improve patient and public safety and increase the appeal of the UK market. The new regime is planned to come into force on July 1, 2023, which will align with the date from which the UK is due to stop accepting CE marked medical devices and require UKCA (“UK Conformity Assessed”) marking. It is envisaged that, in Northern Ireland, the amended regime could run in parallel with any existing or future EU rules in accordance with the Protocol on Ireland and Northern Ireland.

Pharmaceutical Coverage, Pricing and Reimbursement

Significant uncertainty exists as to the coverage and reimbursement status of products approved by the FDA and other government authorities. Sales of products will depend, in part, on the extent to which the costs of the products will be covered by third-party payors, including government health programs such as, in the United States, Medicare and Medicaid, commercial health insurers and managed care organizations. The process for determining whether a payor will provide coverage for a product may be separate from the process for setting the price or reimbursement rate that the payor will pay for the product once coverage is approved. Third-party payors may limit coverage to specific products on an approved list, or formulary, which might not include all of the approved products for a particular indication.

In order to secure coverage and reimbursement for any product that might be approved for sale, a company may need to conduct expensive pharmacoeconomic studies in order to demonstrate the medical necessity and cost-effectiveness of the product, in addition to the costs required to obtain FDA or other comparable regulatory approvals. A payor’s decision to provide coverage for a drug product does not necessarily imply that an adequate reimbursement rate will be approved. Third-party reimbursement may not be sufficient to maintain price levels high enough to realize an appropriate return on our investment in product development. For products administered under the supervision of a physician, obtaining coverage and adequate reimbursement may be particularly difficult because of the higher prices often associated with such drugs, which may impact physician utilization.

The containment of healthcare costs has become a priority of federal, state and foreign governments, and the prices of drugs have been a focus in this effort. Third-party payors are increasingly challenging the prices charged for medical products and services and examining the medical necessity and cost-effectiveness of medical products and services, in addition to their safety and efficacy. If these third-party payors do not consider a product to be cost effective compared to other available therapies, they may not cover the product after approval as a benefit under their plans or, if they do, the level of payment may not be sufficient to allow a company to sell its products at a profit. The U.S. government, state legislatures and foreign governments have shown significant interest in implementing cost containment programs to limit the growth of government-paid health care costs, including price controls, risk sharing, restrictions on reimbursement and requirements for substitution of generic products for branded prescription drugs. Adoption of such controls and measures and tightening of restrictive policies in jurisdictions with existing controls and measures, could limit payments for pharmaceuticals. As a result, the marketability of any product which receives regulatory approval for commercial sale may suffer if the government and third-party payors fail to provide adequate coverage and reimbursement.

In addition, an increasing emphasis on managed care in the United States has increased and will continue to increase the pressure on drug pricing. Coverage policies, third-party reimbursement rates and drug pricing regulation may change at any time. In particular, the Patient Protection and Affordable Care Act, as amended by the Health Care and Education Affordability Reconciliation Act, or collectively, the ACA, contains provisions that may reduce the profitability of drug products, including, for example, increased rebates for drugs sold to Medicaid programs, extension of Medicaid rebates to Medicaid managed care plans, mandatory discounts for certain Medicare Part D beneficiaries and annual fees based on pharmaceutical companies’ share of sales to federal health care programs.

Since its enactment, there have been continual judicial and Congressional challenges to certain aspects of the ACA. It is unclear how these efforts to repeal, replace or otherwise modify the ACA will impact the law on reimbursement. We cannot predict whether future healthcare initiatives will be implemented at the federal or state level, particularly as a result of the recent presidential election, or how any future legislation or regulation may affect us. Even if favorable coverage and reimbursement status is attained for one or more products that receive regulatory approval, less favorable coverage policies and reimbursement rates may be implemented in the future.

In the European Union, pricing and reimbursement schemes vary widely from country to country. Some countries provide that drug products may be marketed only after a reimbursement price has been agreed. Some countries may require the completion of additional studies that compare the cost-effectiveness of a particular product candidate to currently available therapies. For example, the European Union provides options for its member states to restrict the range of drug products for which their national health insurance systems provide reimbursement and to control the prices of medicinal products for human use. European Union member states may approve a specific price for a drug product or it may instead adopt a system of direct or indirect controls on the profitability of the company placing the drug product on the market. Other member states allow companies to fix their own prices for drug products but monitor and control company profits. The downward pressure on health

care costs in general, particularly prescription drugs, has become intense. As a result, increasingly high barriers are being erected to the entry of new products. In addition, in some countries, cross-border imports from low-priced markets exert competitive pressure that may reduce pricing within a country. Any country that has price controls or reimbursement limitations for drug products may not allow favorable reimbursement and pricing arrangements for any of our products.

Healthcare Laws and Regulations

Healthcare providers, physicians and third-party payors will play a primary role in the recommendation and prescription of drug products that are granted marketing approval. Arrangements with healthcare providers, physicians, third-party payors and customers are subject to broadly applicable fraud and abuse and other healthcare laws and regulations that may constrain the business or financial arrangements and relationships through which we market, sell and distribute products for which we obtain marketing approval. Restrictions under applicable federal and state healthcare laws and regulations, include the following:

- the federal healthcare Anti-Kickback Statute prohibits, among other things, persons from soliciting, offering, receiving or providing any remuneration (in cash or in kind), directly or indirectly, to induce or reward either the referral of an individual for, or the purchase, lease, order or recommendation of, any item, facility or service for which payment may be made in whole or in part under a federal healthcare program such as Medicare and Medicaid. Additionally, a person or entity does not need to have actual knowledge of the statute or specific intent to violate the statute in order to have committed a violation;
- the federal Foreign Corrupt Practices Act, or FCPA, prohibits, among other things, U.S. corporations and persons acting on their behalf from offering, promising, authorizing or making payments to any foreign government official (including certain healthcare professionals in many countries), political party, or political candidate in an attempt to obtain or retain business or otherwise seek preferential treatment abroad;
- the federal False Claims Act, which may be enforced by the U.S. Department of Justice or private whistleblowers to bring civil actions (qui tam actions) on behalf of the federal government, imposes civil penalties, as well as liability for treble damages and for attorneys' fees and costs, on individuals or entities for knowingly presenting, or causing to be presented, to the federal government, claims for payment that are false or fraudulent, making a false statement material to a false or fraudulent claim, or improperly avoiding, decreasing, or concealing an obligation to pay money to the federal government. In addition, 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;
- the Department of Health and Human Services' Civil Monetary Penalties authorities, which imposes administrative sanctions for, among other things, presenting or causing to be presented false claims for government payment and providing remuneration to government health program beneficiaries to influence them to order or receive healthcare items or services;
- the federal Health Insurance Portability and Accountability Act of 1996, or HIPAA, imposes criminal and civil liability for, among other conduct, executing a scheme to defraud any healthcare benefit program and making false statements relating to healthcare matters. Similar to the federal Anti-Kickback Statute, a person or entity does not need to have actual knowledge of the statute or specific intent to violate it in order to have committed a violation;
- HIPAA, as amended by the Health Information Technology for Economic and Clinical Health Act and its implementing regulations, also imposes criminal and civil liability and penalties on those who violate requirements, including mandatory contractual terms, intended to safeguard the privacy, security, transmission and use of individually identifiable health information;
- the federal false statements statute relating to healthcare matters prohibits falsifying, concealing or covering up a material fact or making any materially false statement in connection with the delivery of or payment for healthcare benefits, items or services;
- the federal Physician Payment Sunshine Act requires manufacturers of drugs (among other products) to report to the Centers for Medicare and Medicaid Services within the U.S. Department of Health and Human Services, or HHS, information related to payments and other transfers of value to physicians (as defined by statute) and teaching hospitals, as well as physician ownership and investment interests in the reporting manufacturers. Beginning in 2022, applicable manufacturers also will be required to report payments and other transfers of value provided to physician assistants, nurse practitioners, clinical nurse specialists, certified registered nurse anesthetists and certified nurse midwives during the previous year;

- similar state and foreign laws and regulations, such as state anti-kickback and false claims laws, may apply to sales or marketing arrangements and claims involving healthcare items or services reimbursed by nongovernmental third-party payors, including private insurers; and
- certain state laws require pharmaceutical companies to comply with voluntary compliance guidelines promulgated by a pharmaceutical industry association and relevant compliance guidance issues by HHS Office of Inspector General; bar drug manufacturers from offering or providing certain types of payments or gifts to physicians and other health care providers; and/or require disclosure of gifts or payments to physicians and other healthcare providers.

Various state and foreign laws also govern the privacy and security of health information in some circumstances; many of these laws differ from each other in significant ways and often are not preempted by HIPAA, thus complicating compliance efforts. Violation of any of these laws or any other current or future governmental laws and regulations that may apply to drug manufacturers include significant civil, criminal and administrative penalties, damages, fines, disgorgement, individual imprisonment, exclusion from government funded healthcare programs, such as Medicare and Medicaid, contractual damages, reputational harm, diminished profits and future earnings, additional reporting obligations and oversight if the manufacturer becomes subject to a corporate integrity agreement or other agreement to resolve allegations of non-compliance with these laws, and the curtailment or restructuring of its operations, any of which could substantially disrupt its operations. If any of the physicians or other healthcare providers or entities with whom we do business is found to be not in compliance with applicable laws, they may be subject to significant criminal, civil or administrative sanctions, including exclusions from government funded healthcare programs.

Additional Regulation

In addition to the foregoing, state, and federal laws regarding environmental protection and hazardous substances, including the Occupational Safety and Health Act, the Resource Conservation and Recovery Act, and the Toxic Substances Control Act, affect our business. These and other laws govern the use, handling, and disposal of various biologic, chemical, and radioactive substances used in, and wastes generated by, operations. If our operations result in contamination of the environment or expose individuals to hazardous substances, we could be liable for damages and governmental fines. Equivalent laws have been adopted in third countries that impose similar obligations.

Employees

As of December 31, 2021, we had 77 full time employees, approximately 60% of whom have an M.D., Ph.D., or other advanced degree. We believe that our future success largely depends upon our continued ability to attract and retain a diverse group of highly skilled employees. We provide our employees with competitive salaries and bonuses, opportunities for equity ownership, development programs that enable continued learning and growth and a robust employment package that promotes well-being across all aspects of their lives, including health care, retirement planning and paid time off. None of our employees are represented by a labor union or covered under a collective bargaining agreement. We consider our employee relations to be good.

Facilities

Cambridge, Massachusetts

Our corporate headquarters are located in Cambridge, Massachusetts, where we lease approximately 33,500 square feet of office and laboratory space pursuant to a lease agreement commencing in July 2015 and expiring in April 2023. This facility houses our clinical, regulatory, and administrative personnel. We sublease approximately 70% space under the terms of our sublease agreement.

Boulder, Colorado

We also lease approximately 38,075 square feet in Boulder, Colorado, and are in the process of building out the facility to include office and laboratory space. Lease payments will begin upon the earlier of (i) substantial completion of tenant improvements or (ii) May 1, 2022. The Company will be entitled to 14 months of free rent, followed by an initial lease term of 12 years. The Company also has the option to extend the lease for three successive five-year terms.

Legal Proceedings

From time to time, we may be involved in various claims and legal proceedings relating to claims arising out of our operations. Regardless of outcome, litigation can have an adverse impact on us because of defense and settlement costs, diversion of management resources and other factors. We are not currently a party to any material legal proceedings.

Corporate History

We were incorporated under the laws of the State of Delaware in March 2014 under the name Unum Therapeutics Inc. On April 3, 2018, we completed our initial public offering (IPO) of our common stock under the ticker “UMRX.” On October 2, 2020, we filed an amendment to our certificate of incorporation to change our name from Unum Therapeutics Inc. to Cogent Biosciences, Inc. The name change became effective on October 6, 2020. In connection with the name change, our common stock began trading under the ticker symbol “COGT.”

On March 19, 2020, we entered into a Purchase Agreement (the “LPC Purchase Agreement”) with Lincoln Park Capital Fund, LLC (“LPC”), pursuant to which we may elect to sell to LPC up to \$25.0 million in shares of our common stock, subject to certain limitations and conditions set forth in the LPC Purchase Agreement. Pursuant to the LPC Purchase Agreement, we issued 181,595 shares of common stock to LPC as a commitment fee. As of December 31, 2021, 2,412,870 registered common shares have been sold to LPC under the LPC Purchase Agreement for proceeds of \$25.0 million. No additional shares may be sold to LPC under the LPC Purchase Agreement.

On March 26, 2020, we announced that we would be exploring strategic alternatives in order to maximize stockholder value and that we had engaged Ladenburg Thalmann & Co. Inc. to act as our strategic financial advisor to assist in the strategic review process. As of July 6, 2020, we successfully signed and closed the acquisition of Kiq.

On July 6, 2020, we completed our acquisition of Kiq, in accordance with the terms of the Agreement and Plan of Merger, dated July 6, 2020 (the “Merger Agreement”).

On July 9, 2020, we completed a Private Investment in Public Equity (“PIPE”) with existing and new investors to raise gross proceeds of \$104.4 million, or net proceeds of \$98.9 million, after deducting commissions and offering costs, in which the investors were issued shares of Series A Non-Voting Convertible Preferred Stock (“Series A Preferred Stock”) at a price of \$880 per share or, \$3.52 per share on an as-converted-to-common basis.

On August 28, 2020, we completed the sale of our BOXR technology and Autologous Cell Therapy Industrial Automation (“ACTIA”) technology (collectively, the “BOXR Platform”), to Sotio LLC (“Sotio”) (the “BOXR Platform Transaction”), pursuant to an asset purchase agreement by and among Cogent, Sotio and Sotio NV as Guarantor (the “BOXR Platform Purchase Agreement”).

In August 2020, our board of directors unanimously approved an amendment to our certificate of incorporation, which would allow the board to effect a reverse stock split of all issued and outstanding shares of our common stock, at a ratio ranging from 1-for-4 to 1-for-8, inclusive, subject to stockholder approval. On October 9, 2020, the Company filed a Definitive Proxy Statement which included the proposal that our stockholders approve the amendment to our certificate of incorporation to effect the reverse stock split and a proposal that the stockholders approve the conversion of the shares of Series A Preferred Stock issued in the Kiq acquisition and the PIPE. The proposals were approved by the stockholders at a special meeting held on November 6, 2020 and our board of directors approved a ratio of 1-for-4 for the reverse stock split. The amendment to our certificate of incorporation to effect the reverse stock split at a ratio of 1-for-4 was filed with the Delaware Secretary of State on November 6, 2020.

On December 4, 2020, we completed an underwritten public offering of 11,794,872 shares of our common stock at a public offering price of \$9.75 per share. This included the exercise in full by the underwriters of their 30-day option to purchase up to 1,538,461 additional shares of common stock. The net proceeds from the offering, after deducting the underwriting discounts and commissions and estimated offering expenses, were approximately \$107.7 million.

On February 8, 2021, the Company filed a shelf registration statement on Form S-3 with the SEC. The shelf registration statement allows the Company to sell from time-to-time up to \$200.0 million of common stock, preferred stock, debt securities, warrants or units comprised of any combination of these securities, for its own account in one or more offerings. The terms of any offering under the shelf registration statement will be established at the time of such offering and will be described in a prospectus supplement filed with the SEC prior to the completion of any such offering.

Additionally, on February 8, 2021, pursuant to the Form S-3, the Company entered into a Sales Agreement (the “Sales Agreement”) with SVB Leerink LLC (“SVB Leerink”), pursuant to which the Company may issue and sell, from time to time, shares of its common stock having an aggregate offering price of up to \$75.0 million through SVB Leerink as the sales agent. As of December 31, 2021, 3,954,900 shares have been sold under the Sales Agreement for net proceeds of approximately \$38.0 million.

Implications of Being an Emerging Growth Company

We qualify as an “emerging growth company” as defined in the Jumpstart Our Business Startups Act of 2012, as amended (JOBS Act). As an emerging growth company, we may take advantage of specified reduced disclosure and other requirements that are otherwise applicable generally to public companies. These provisions include:

- only two years of audited financial statements in addition to any required unaudited interim financial statements with correspondingly reduced “Management’s Discussion and Analysis of Financial Condition and Results of Operations” disclosure;
- reduced disclosure about our executive compensation arrangements;
- no non-binding advisory votes on executive compensation or golden parachute arrangements; and
- exemption from the auditor attestation requirement in the assessment of our internal control over financial reporting.

We may take advantage of these exemptions for up to five years or such earlier time that we are no longer an emerging growth company. We would cease to be an emerging growth company on the date that is the earliest of (i) the last day of the fiscal year in which we have total annual gross revenues of \$1.07 billion or more; (ii) the last day of our fiscal year following the fifth anniversary of the date of the completion of our IPO; (iii) the date on which we have issued more than \$1 billion in nonconvertible debt during the previous three years; or (iv) the date on which we are deemed to be a large accelerated filer under the rules of the Securities and Exchange Commission (SEC). We may choose to take advantage of some but not all of these exemptions. We have taken advantage of the reduced reporting requirements in this Annual Report on Form 10-K. Accordingly, the information contained herein may be different from the information you receive from other public companies in which you hold stock.

We have irrevocably elected to “opt out” of the exemption for the delayed adoption of certain accounting standards and, therefore, will be subject to the same new or revised accounting standards as other public companies that are not emerging growth companies.

Available Information

Our Internet address is www.cogentbio.com. Our Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K, including exhibits, proxy and information statements and amendments to those reports filed or furnished pursuant to Sections 13(a), 14, and 15(d) of the Securities Exchange Act of 1934, as amended, or the Exchange Act, are available through the “Investors” portion of our website free of charge as soon as reasonably practicable after we electronically file such material with, or furnish it to, the SEC. Information on our website is not part of this Annual Report on Form 10-K or any of our other securities filings unless specifically incorporated herein by reference. In addition, our filings with the SEC may be accessed through the SEC’s Interactive Data Electronic Applications system at <http://www.sec.gov>. All statements made in any of our securities filings, including all forward-looking statements or information, are made as of the date of the document in which the statement is included, and we do not assume or undertake any obligation to update any of those statements or documents unless we are required to do so by law.

ITEM 1A. RISK FACTORS

The following risk factors and other information included in this Annual Report on Form 10-K should be carefully considered. The risks and uncertainties described below are not the only ones we face. Additional risks and uncertainties not presently known to us or that we presently deem less significant may also impair our business operations. You should carefully consider the risks described below, as well as the other information in this Annual Report on Form 10-K, including our financial statements and the related notes and “Management’s Discussion and Analysis of Financial Condition and Results of Operations,” as well as our other filings with the Securities and Exchange Commission, before deciding whether to invest in our common stock. If any of the following risks occur, our business, financial condition, results of operations and future growth prospects could be materially and adversely affected.

Risks Related to the Discovery and Development of Our Drug Candidates

Our business is highly dependent on the success of our bezuclastinib program and our ability to discover and develop additional product candidates. We may not be successful in our efforts to develop bezuclastinib or expand our pipeline of drug candidates.

Our business and future success depend on our ability to develop, obtain regulatory approval for and then successfully commercialize bezuclastinib and any other product candidates that we may discover and develop. We are pursuing clinical development of bezuclastinib to target SM and GIST through our APEX, SUMMIT and PEAK clinical trials. There is no guarantee that any or all of these trials will be successful. Even if our trials are successful, bezuclastinib will require regulatory review and approval, substantial investment, access to sufficient commercial manufacturing capacity and significant marketing efforts before we are able to generate any revenue from product sales, if ever.

Through the development of the research team, we are also working to build a pipeline of other product candidates. Researching, developing, obtaining regulatory approval for and commercializing additional product candidates will require substantial additional funding beyond the net proceeds from the public offering and private placement of our securities and consideration received from our collaborative agreements and is prone to the risks of failure inherent in medical product development. Even if we are successful in continuing to build and expand our pipeline, we cannot provide you any assurance that we will be able to successfully advance any of these additional product candidates through the development process, or that any such product candidates will be successfully commercialized, widely accepted in the marketplace or more effective than other commercially available alternatives.

If unacceptable side effects are identified during the development of our drug candidates, we may need to abandon or limit such development.

If our drug candidates are associated with unacceptable side effects in preclinical or clinical trials or have characteristics that are unexpected, we may need to abandon their development, limit development to more narrow uses or subpopulations in which the unacceptable side effects or other characteristics are less prevalent, less severe, or more acceptable from a risk-benefit perspective or highlight these risks, side effects, or other characteristics in the approved product label. In pharmaceutical development, many drugs that initially show promise in early-stage testing for treating cancer may later be found to cause side effects that prevent further development of the drug. Currently marketed therapies for the treatment of cancer are generally limited to some extent by their toxicity. In addition, some of our drug candidates would be chronic therapies or used in pediatric populations, for which safety concerns may be particularly important. Use of our drug candidates as monotherapies may also result in adverse events consistent in nature with other marketed therapies. In addition, if used in combination with other therapies in the future, our drug candidates may exacerbate adverse events associated with the therapy. If unexpected side effects are identified during development, we may be required to develop a Risk Evaluation and Mitigation Strategy (“REMS”) to mitigate those serious safety risks, which could impose significant distribution and/or use restrictions on our products.

We face significant competition from other biotechnology and pharmaceutical companies, and our operating results will suffer if we fail to compete effectively.

The development and commercialization of new pharmaceutical and biotechnology products is highly competitive. We face competition with respect to our current clinical-stage drug candidates and will face competition with respect to any drug candidates that we may seek to develop or commercialize in the future, from major pharmaceutical companies, specialty pharmaceutical companies, and biotechnology companies worldwide. There are a number of large pharmaceutical and biotechnology companies that currently market and sell products or are pursuing the development of products for the treatment of the disease indications for which we are developing our drug candidates. Potential competitors also include academic

institutions, government agencies, and other public and private research organizations that conduct research, seek patent protection, and establish collaborative arrangements for research, development, manufacturing, and commercialization.

Our commercial opportunity could be reduced or eliminated if our competitors develop and commercialize products that are safer, more effective, have superior dosing regimens, have fewer or less severe side effects, are approved for broader indications or patient populations, are approved for specific sub-populations, are more convenient or are less expensive than bezuclastinib or any other products that we may develop. Our competitors also may obtain FDA or other marketing approval for their products more rapidly than any approval we may obtain for ours, which could result in our competitors establishing a strong market position before we are able to enter the market. In addition, our ability to compete may be affected in many cases by insurers or other third-party payors seeking to encourage the use of generic products.

Many of the companies against which we are competing or against which we may compete in the future have significantly greater financial resources and expertise in research and development, manufacturing, preclinical testing, conducting clinical trials, obtaining marketing approvals, and marketing and selling approved products than we do. Mergers and acquisitions in the pharmaceutical and biotechnology industries may result in even more resources being concentrated among a smaller number of our competitors. For further information, see “Business —Competition,” which discusses the pharmaceutical and biotechnology companies developing or marketing treatments for cancer and hematologic diseases that would be competitive with bezuclastinib and the drug candidates we are developing, if such drug candidates are approved.

We may choose not to develop a potential product candidate, or we may suspend, deprioritize or terminate one or more discovery programs or preclinical or clinical product candidates or programs.

At any time and for any reason, we may determine that one or more of our discovery programs or preclinical or clinical product candidates or programs does not have sufficient potential to warrant the allocation of resources toward such program or product candidate. Accordingly, we may choose not to develop a potential product candidate or elect to suspend, deprioritize or terminate one or more of our discovery programs or preclinical or clinical product candidates or programs. If we suspend, deprioritize or terminate a program or product candidate in which we have invested significant resources, we will have expended resources on a program or product candidate that will not provide a full return on our investment and may have missed the opportunity to have allocated those resources to potentially more productive uses, including existing or future programs or product candidates.

We may form or seek collaborations or strategic alliances or enter into additional licensing arrangements in the future, but we may not realize any resulting benefits.

We may form or seek strategic alliances, create joint ventures or collaborations, or enter into additional licensing arrangements with third parties that we believe will complement or augment our development and commercialization efforts with respect to our product candidates and any future product candidates that we may develop. In particular, we may seek to enter into collaborations with our bezuclastinib program and other collaborations to progress the clinical development of the bezuclastinib program. Any of these relationships may require us to incur non-recurring and other charges, increase our near and long-term expenditures, issue securities that dilute our existing stockholders or disrupt our management and business.

We may not be successful in our efforts to establish a strategic partnership or other alternative arrangements for our product candidates because they may be deemed to be at too early of a stage of development for collaborative effort and third parties may not view our product candidates as having the requisite potential to demonstrate safety and efficacy and obtain marketing approval. Further, collaborations involving our product candidates are subject to numerous technical, business, and legal risks. Even if we are successful in entering into a collaboration with respect to the development and/or commercialization of one or more product candidates, there is no guarantee that the collaboration will be successful.

The incidence and prevalence for target patient populations of our drug candidates have not been established with precision. If the market opportunities for our drug candidates are smaller than we estimate or if any approval that we obtain is based on a narrower definition of the patient population, our revenue potential and ability to achieve profitability will be adversely affected.

The precise incidence and prevalence for GIST and SM are unknown. Our projections of both the number of people who have these diseases, as well as the subset of people with these diseases who have the potential to benefit from treatment with our drug candidates, are based on estimates, which are inherently uncertain. The total addressable market opportunity for bezuclastinib, and any other drug candidates we may produce will ultimately depend upon, among other things, the diagnosis criteria included in the final label for our future approved drugs for sale for these indications, acceptance by the medical

community and patient access, drug pricing, and reimbursement. The number of patients in our targeted commercial markets and elsewhere may turn out to be lower than expected, patients may not be otherwise amenable to treatment with our drug, or new patients may become increasingly difficult to identify or gain access to, all of which would adversely affect our results of operations and our business.

The commercial success of any future approved drugs, including bezuclastinib, will depend upon the degree of market acceptance by physicians, patients, third-party payors, and others in the medical community.

If bezuclastinib and any future approved drugs do not achieve an adequate level of acceptance by physicians, patients, third-party payors, and others in the medical community, we may not generate significant product revenues and we may not become profitable. The degree of market acceptance of bezuclastinib and of any current or future drug candidates, if approved for commercial sale, will depend on a number of factors, including the availability, perceived advantages, and relative cost, safety, and efficacy of alternative and competing treatments; and the prevalence and severity of any side effects, adverse reactions, misuse, or any unfavorable publicity in these areas, in particular compared to alternative treatments. Even if a potential drug displays a favorable efficacy and safety profile in preclinical and clinical studies, market acceptance of the drug will not be known until after it is launched.

Clinical trials are expensive, time-consuming, and difficult to design and implement.

Human clinical trials are expensive and difficult to design and implement, in part because they are subject to rigorous regulatory requirements. We are unable to predict when or if our drug or any of our drug candidates will prove effective or safe in humans or will obtain marketing approval. Before obtaining marketing approval from regulatory authorities for the sale of any drug candidate, we must complete preclinical development and then conduct extensive clinical trials to demonstrate the safety and efficacy of our drug candidates in humans. A failure of one or more clinical trials can occur at any stage of testing. The outcome of preclinical testing and early clinical trials may not be predictive of the success of later clinical trials, interim or preliminary results of a clinical trial do not necessarily predict final results, and results for one indication may not be predictive of the success in additional indications. In particular, the small number of patients in our early clinical trials may make the results of these trials less predictive of the outcome of later clinical trials. There is typically an extremely high rate of attrition from the failure of product candidates proceeding through clinical trials. A number of companies in the biopharmaceutical industry have suffered significant setbacks in advanced clinical trials due to lack of efficacy, insufficient durability of efficacy, or unacceptable safety issues, notwithstanding promising results in earlier trials. Most product candidates that commence clinical trials are never approved as products.

We may experience numerous unforeseen events during, or as a result of, clinical trials that could delay or prevent our ability to obtain marketing approval or commercialize our drug or drug candidates. Our product development costs will increase if we experience delays in preclinical studies or clinical trials or in obtaining marketing approvals. We do not know whether any of our planned preclinical studies or clinical trials will begin on a timely basis or at all, will need to be restructured, or will be completed on schedule, or at all. Significant preclinical study or clinical trial delays also could shorten any periods during which we may have the exclusive right to commercialize our drug candidates or allow our competitors to bring products to market before we do and impair our ability to successfully commercialize our drug candidates and may harm our business and results of operations.

Since the number of patients that we have dosed to date in our clinical trials is small, the results from such clinical trials may be less reliable than results achieved in larger clinical trials.

A study design that is considered appropriate for regulatory approval includes a sufficiently large sample size with appropriate statistical power, as well as proper control of bias, to allow a meaningful interpretation of the results. The preliminary results of trials with smaller sample sizes can be disproportionately influenced by the impact the treatment had on a few individuals, which limits the ability to generalize the results across a broader community, thus making the study results less reliable than studies with a larger number of patients. As a result, there may be less certainty that such product candidates would achieve a statistically significant effect in any future clinical trials. In our current and any future clinical trials, we may not achieve a statistically significant result or the same level of statistical significance, if any, that we may have seen in prior clinical trials or preclinical studies.

If we encounter difficulties enrolling patients in our clinical trials, our clinical development activities could be delayed or otherwise adversely affected.

We may experience difficulties in patient enrollment in our clinical trials for a variety of reasons. The timely completion of clinical trials in accordance with their protocols depends, among other things, on our ability to enroll a sufficient number of patients who remain in the study until its conclusion. The enrollment of patients depends on many factors, including: the patient eligibility criteria defined in the protocol; the size of the patient population required for analysis of the trial's primary endpoints; and our ability to recruit clinical trial investigators with the appropriate competencies and experience.

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. Delays in patient enrollment may result in increased costs or may affect the timing or outcome of our ongoing and planned clinical trials.

Interim, "top-line" and preliminary data from our clinical trials that we announce or publish from time to time may change as more patient data become available, may be interpreted differently if additional data are disclosed, and are subject to audit and verification procedures that could result in material changes in the final data.

From time to time, we may publicly disclose preliminary or "top-line" data from our clinical trials, which may be based on a preliminary analysis of then-available data in a summary or "top-line" format, and the results and related findings may change as more patient data become available, may be interpreted differently if additional data are disclosed at a later time and are subject to audit and verification procedures that could result in material changes in the final data. If additional results from our clinical trials are not viewed favorably, our ability to obtain approval for and commercialize our drug candidates, our business, operating results, prospects, or financial condition may be harmed and our stock price may decrease.

We may not be able to file investigational new drug applications ("IND"s) or IND amendments or clinical trial authorization applications ("CTA"s) to commence additional clinical trials on the timelines we expect, and even if we are able to, the FDA or other regulatory authorities may not permit us to proceed.

Our timing of filing INDs or CTAs on our product candidates is dependent on further research. We cannot be sure that submission of an IND or CTA will result in the FDA or other regulatory authority allowing further clinical trials to begin, or that, once begun, issues will not arise that suspend or terminate such clinical trials.

We have limited experience as a company conducting clinical trials.

We have limited experience as a company in conducting clinical trials. In part because of this lack of experience, we cannot be certain that our ongoing clinical trials will be completed on time or if the planned clinical trials will begin or be completed on time, if at all.

Our updated bezuclastinib formulation is unproven and may not work as intended in clinical trials.

In November 2021 we announced an updated formulation of bezuclastinib which is intended to reduce the number of daily tablets required, thereby potentially improving the overall patient experience. This formulation is currently being used in our PEAK trial, as well as a Phase 1 clinical study evaluating the pharmacokinetics, relative bioavailability and food effects of bezuclastinib in healthy adults. The formulation is unproven to date, and there is no guarantee that it will be successful.

A variety of risks associated with marketing our product candidates internationally could materially adversely affect our business.

We plan to seek regulatory approval of our product candidates outside of the United States and, accordingly, we expect that we will be subject to additional risks and regulatory requirements related to operating in foreign countries if we obtain the necessary approvals. Risks associated with our international operations may materially adversely affect our ability to attain or maintain profitable operations.

If product liability lawsuits are brought against us, we may incur substantial liabilities and may be required to limit commercialization of our product candidates.

We face an inherent risk of product liability as a result of the clinical testing of our product candidates and will face an even greater risk if we commercialize any products. For further information, see “Legal Proceedings.”

The current pandemic of the novel coronavirus, or COVID-19, and the future outbreak of other highly infectious or contagious diseases, could seriously harm our development efforts, increase our costs and expenses and have a material adverse effect on our business, financial condition and results of operations.

The extent to which the COVID-19 pandemic, or the future outbreak of any other highly infectious or contagious diseases, impacts our operations will depend on future developments, which are highly uncertain and cannot be predicted with confidence, including the scope, severity and duration of such pandemic, the actions taken to contain the pandemic or mitigate its impact, and the direct and indirect economic effects of the pandemic and containment measures, among others. The rapid development and fluidity of this situation precludes any prediction as to the full adverse impact of the COVID-19 pandemic. Nevertheless, the COVID-19 pandemic has already affected and may continue to adversely affect our business, financial condition and results of operations, including the below:

- Our operating plan currently includes efforts to advance bevacizumab through further clinical development. We currently rely on third parties to, among other things, help conduct our clinical trials, manufacture raw materials, manufacture our product candidates and supply other goods and services to run our business. If our clinical trial sites or any third party in our supply chain for materials is adversely impacted by restrictions resulting from the COVID-19 pandemic, including staffing shortages, production slowdowns and disruptions in delivery systems, our development timelines may be delayed and our supply chain may be disrupted, limiting our ability to enroll patients and manufacture our product candidate and conduct our research and development operations.
- The trading prices for our common stock and other biopharmaceutical companies have been highly volatile as a result of the COVID-19 pandemic. As a result, we may face difficulties raising capital through sales of our common stock or such sales may be on unfavorable terms. In addition, a recession, depression or other sustained adverse market event resulting from the COVID-19 pandemic could materially and adversely affect our business and the value of our common stock.

Risks Related to Our Reliance on Third Parties

We currently rely and for the foreseeable future will continue to rely on third parties to conduct our clinical trials and to assist with various research and discovery activities. If these third parties do not properly and successfully carry out their contractual duties or meet expected deadlines, we may not be able to obtain regulatory approval of or commercialize our product candidates or discover new product candidates.

We depend and will depend upon independent investigators and collaborators, such as medical institutions, contract research organizations (“CROs”), commercial manufacturing organizations (“CMO”s) and strategic partners to conduct our preclinical studies and clinical trials under agreements with us. We will rely heavily on these third parties over the course of our clinical trials, and we control only certain aspects of their activities. As a result, we have less direct control over the conduct, timing and completion of these clinical trials and the management of data developed through clinical trials than would be the case if we were relying entirely upon our own staff. We and these third parties are required to comply with good clinical practices (“GCP”s), which are regulations and guidelines enforced by the FDA and comparable foreign regulatory authorities for product candidates in clinical development. If we or any of these third parties fail to comply with applicable GCP regulations, the clinical data generated in our clinical trials may be deemed unreliable and the FDA or comparable foreign regulatory authorities may require us to perform additional clinical trials before approving our marketing applications. In addition, failure or any failure by these third parties to recruit a sufficient number of patients may require us to repeat clinical trials, which would delay the regulatory approval process. Moreover, our business may be implicated if any of these third parties violates federal or state fraud and abuse or false claims laws and regulations or healthcare privacy and security laws. These third parties may also have relationships with other commercial entities, including our competitors, for whom they may also be conducting clinical trials or other drug development activities, which could affect their performance on our behalf.

If any CMO with whom we contract fails to perform its obligations, we may be forced to manufacture the materials ourselves, for which we may not have the capabilities or resources, or enter into an agreement with a different CMO, which we may not be able to do on reasonable terms, if at all. In either scenario, our clinical trials supply could be delayed significantly as we establish alternative supply sources. In some cases, the technical skills required to manufacture our products or product candidates may be unique or proprietary to the original CMO and we may have difficulty, or there may be contractual restrictions prohibiting us from, transferring such skills to a back-up or alternate supplier, or we may be unable to transfer such skills at all. Furthermore, a CMO may possess technology related to the manufacture of our product candidate that such CMO

owns independently. This would increase our reliance on such CMO or require us to obtain a license from such CMO in order to have another CMO manufacture our product candidates. In addition, changes in manufacturers often involve changes in manufacturing procedures and processes, which could require that we conduct bridging studies between our prior clinical supply used in our clinical trials and that of any new manufacturer. We may be unsuccessful in demonstrating the comparability of clinical supplies which could require the conduct of additional clinical trials.

We also rely on third party vendors and collaborators to support our research and discovery efforts and to help expand our drug candidate pipeline, including certain third parties located in China, and we expect to continue to use such third parties. A natural disaster, epidemic or pandemic disease outbreaks, including the COVID-19 pandemic, trade war, political unrest or other local events could disrupt the business or operations of these third parties and thus negatively impact our research and discovery capabilities.

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

We do not currently own or operate any manufacturing facilities. We rely, and expect to continue to rely, on third parties for the manufacture of our drug candidates for preclinical development and clinical testing, as well as for the commercial manufacture of our current and future drugs. This reliance on third parties increases the risk that we will not have sufficient quantities of our drug candidates or such quantities at an acceptable cost or quality, which could delay, prevent or impair our development or commercialization efforts.

We do not have long-term supply agreements with our contract manufacturers, and purchase our required drug supply, including the API and drug product used in our drug candidates, on a purchase order basis with certain contract manufacturers. In addition, we may be unable to establish or maintain any agreements with third-party manufacturers or to do so on acceptable terms. Even if we are able to establish and maintain agreements with third-party manufacturers, reliance on third-party manufacturers entails additional risks. In addition, our drug candidates may compete with other drug candidates for access to manufacturing facilities. As a result, we may not obtain access to these facilities on a priority basis or at all. There are a limited number of manufacturers that operate under cGMP regulations and that might be capable of manufacturing for us.

For our other potential products, if we are not able to negotiate commercial supply terms with any such third-party manufacturers, we may be unable to commercialize our products if they were to be approved, and our business and financial condition would be materially harmed. If we are forced to accept unfavorable terms for our relationships with any such third-party manufacturer, our business and financial condition would be materially harmed.

Third-party manufacturers may not be able to comply with the FDA's cGMP regulations or similar regulatory requirements outside of the U.S. Our failure, or the failure of our third-party manufacturers, to comply with applicable regulations could result in sanctions being imposed on us, including clinical holds, fines, injunctions, civil penalties, delays, suspension or withdrawal of approvals, seizures or voluntary recalls of drug candidates or products, operating restrictions, and criminal prosecutions, any of which could significantly and adversely affect supplies of our products. Third-party manufacturers' failure to achieve and maintain high manufacturing standards, in accordance with applicable regulatory requirements, or the incidence of manufacturing errors, also could result in patient injury or death, product shortages, delays or failures in product testing or delivery, cost overruns, or other problems that could seriously harm our business. Third-party manufacturers often encounter difficulties involving production yields, quality control, and quality assurance, as well as shortages of qualified personnel.

The third parties upon whom we rely for the supply of the API and drug product used in bezuclastinib are our sole source of supply, and the loss of any of these suppliers could significantly harm our business.

The API and drug product used in bezuclastinib are currently supplied to us from single-source suppliers. Our ability to successfully develop our drug candidates and supply our drug candidates for clinical trials, depends in part on our ability to obtain the API and drug product for these drugs in accordance with regulatory requirements and in sufficient quantities for clinical testing. We will need to enter into arrangements to establish redundant or second-source supply of some of the API and drug product. If any of our suppliers ceases its operations for any reason or is unable or unwilling to supply API or drug product in sufficient quantities or on the timelines necessary to meet our needs, including as a result of the COVID-19 pandemic, it could significantly and adversely affect our business, the supply of our current or future drug candidates or any future approved drugs and our financial condition.

For bezuclastinib and any other product candidates, we intend to identify and qualify additional manufacturers to provide such API and drug product prior to submission of a New Drug Application ("NDA") to the FDA and/or a Marketing

Authorization Application (“MAA”) to the EMA. We are not certain, however, that our single-source suppliers will be able to meet our demand for their products, either because of the nature of our agreements with those suppliers, our limited experience with those suppliers or our relative importance as a customer to those suppliers. It may be difficult for us to assess their ability to timely meet our demand in the future based on past performance and they may subordinate our needs in the future to their other customers.

While we seek to maintain adequate inventory of the API and drug product used in our current or future drug candidates and any future approved drugs, any interruption or delay in the supply of components or materials, or our inability to obtain such API and drug product from alternate sources at acceptable prices in a timely manner could impede, delay, limit or prevent our development efforts, which could harm our business, results of operations, financial condition and prospects.

Risks Related to Regulatory Approval of Our Drug Candidates and Other Legal Compliance Matters

The FDA regulatory approval process is lengthy and time-consuming, and we may experience significant delays in the clinical development and regulatory approval of our product candidates.

We currently have one drug candidate in clinical development and its risk of failure is high. We are unable to predict when or if any of our drug candidates will prove effective or safe in humans or will obtain marketing approval. Before obtaining marketing approval from regulatory authorities for the sale of any drug candidate, we must complete preclinical development and then conduct extensive clinical trials to demonstrate the safety and efficacy of our drug candidates in humans. For further information, see “Business — bezuclastinib — GIST,” which outlines the results of our Phase 1/2 clinical trial in patients with GIST.

While bezuclastinib is a highly potent and selective KIT D816V inhibitor that is being developed to treat SM and GIST patients, we may find that patients treated with bezuclastinib have or develop mutations that confer resistance to treatment. If patients have or develop resistance to treatment with our drug candidates, we may be unable to successfully complete our clinical trials, and may not be able to obtain regulatory approval of, and commercialize, our drug candidates.

Our product development costs will increase if we experience delays in preclinical studies or clinical trials or in obtaining marketing approvals. We may experience numerous unforeseen events during, or as a result of, clinical trials that could delay or prevent our ability to obtain marketing approval or commercialize our drug candidates. We may utilize companion diagnostics in our planned clinical trials in the future in order to identify appropriate patient populations for our drug candidates. If a satisfactory companion diagnostic is not commercially available, we may be required to create or obtain one that would be subject to regulatory approval requirements. The process of obtaining or creating such diagnostic is time consuming and costly.

Regulatory authorities, including the FDA, may disagree with our regulatory plan and we may fail to obtain regulatory approval of our product candidates.

We are conducting clinical trials with our lead product candidate, bezuclastinib, in patients with GIST, AdvSM and NonAdvSM. The FDA may not agree with our regulatory plans for initial registration of bezuclastinib in some or all of these indications and may require additional clinical trials to be conducted prior to approval. Our clinical trial results may also not support approval.

In addition, our product candidates could fail to receive regulatory approval for many reasons, including if we are unable to demonstrate to the satisfaction of the FDA or comparable foreign regulatory authorities that our product candidates are safe and effective for any of their proposed indications, or that our product candidates’ clinical and other benefits outweigh their safety risks.

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

Obtaining and maintaining regulatory approval of our product candidates in one jurisdiction does not guarantee that we will be able to obtain or maintain regulatory approval in any other jurisdiction, while a failure or delay in obtaining regulatory approval in one jurisdiction may have a negative effect on the regulatory approval process in others. We may also submit marketing applications in other countries. Obtaining foreign regulatory 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.

If we are unable to successfully develop companion diagnostic tests for our drug candidates that require such tests, or experience significant delays in doing so, we may not realize the full commercial potential of these drug candidates.

We may develop, either by ourselves or with collaborators, in vitro companion diagnostic tests for our drug candidates for certain indications. To be successful, we or our collaborators will need to address a number of scientific, technical, regulatory, and logistical challenges. The FDA regulates in vitro companion diagnostics as medical devices that will likely be subject to clinical trials in conjunction with the clinical trials for our drug candidates, and which will require regulatory clearance or approval prior to commercialization. We may rely on third parties for the design, development, and manufacture of companion diagnostic tests for our therapeutic drug candidates that require such tests. If these parties are unable to successfully develop companion diagnostics for these therapeutic drug candidates, or experience delays in doing so, the development of these therapeutic drug candidates may be adversely affected or may not obtain marketing approval, and we may not realize the full commercial potential of any of these therapeutics that obtain marketing approval.

The impact of healthcare legislation and other changes in the healthcare industry and in healthcare spending on us is currently unknown, and may adversely affect our business model.

Our revenue prospects could be affected by changes in healthcare spending and policy in the United States and abroad. We operate in a highly regulated industry and new laws, regulations or judicial decisions, or new interpretations of existing laws, regulations or decisions, related to healthcare availability, the method of delivery or payment for healthcare products and services could negatively impact our business, operations and financial condition.

There has been increasing legislative and enforcement interest in the United States with respect to specialty drug pricing practices. In fact, both the federal and state governments in the United States and foreign governments continue to propose and pass new legislation, regulations, and policies affecting coverage and reimbursement rates, which are designed to contain or reduce the cost of health care. Further federal and state proposals and healthcare reforms are likely, which could limit the prices that can be charged for the product candidates that we develop and may further limit our commercial opportunity. There may be future changes that result in reductions in potential coverage and reimbursement levels for our product candidates, if approved and commercialized, and we cannot predict the scope of any future changes or the impact that those changes would have on our operations. Any reduction in reimbursement from Medicare and other government programs may result in a similar reduction in payments from private payors.

The continuing efforts of the government, insurance companies, managed care organizations and other payors of healthcare services to contain or reduce costs of healthcare and/or impose price controls may adversely affect us.

Our employees, independent contractors, consultants, commercial partners and vendors may engage in misconduct or other improper activities, including noncompliance with regulatory standards and requirements.

We are exposed to the risk of employee fraud or other illegal activity by our employees, independent contractors, consultants, commercial partners and vendors. If we obtain FDA approval of any of our product candidates and begin commercializing those products in the United States, our potential exposure under the regulations of the FDA and other similar foreign regulatory bodies will increase significantly, and our costs associated with compliance with such laws and regulations are also likely to increase. It is possible that governmental and enforcement authorities will conclude that our business practices may not comply with current or future statutes, regulations or case law interpreting applicable fraud and abuse or other healthcare laws and regulations. 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. See “Business — Healthcare Laws and Regulations.”

We face potential liability related to the privacy of health information we obtain from clinical trials sponsored by us.

Most healthcare providers, including research institutions from which we obtain patient health information, are subject to privacy and security regulations promulgated under HIPAA, as amended by the HITECH. We are not currently classified as a covered entity or business associate under HIPAA and thus are not directly subject to its requirements or penalties. However, any person may be prosecuted under HIPAA’s criminal provisions either directly or under aiding-and-abetting or conspiracy principles. Consequently, depending on the facts and circumstances, we could face substantial criminal penalties if we knowingly receive individually identifiable health information from a HIPAA-covered healthcare provider or research

institution that has not satisfied HIPAA's requirements for disclosure of individually identifiable health information. In addition, we may maintain sensitive personally identifiable information, including health information, that we receive throughout the clinical trial process, in the course of our research collaborations, and directly from individuals (or their healthcare providers) who enroll in our patient assistance programs. As such, we may be subject to state laws requiring notification of affected individuals and state regulators in the event of a breach of personal information, which is a broader class of information than the health information protected by HIPAA.

Furthermore, certain health privacy laws, data breach notification laws, consumer protection laws and genetic testing laws may apply directly to our operations and/or those of our collaborators and may impose restrictions on our collection, use and dissemination of individuals' health information. Patients about whom we or our collaborators obtain health information, as well as the providers who share this information with us, may have statutory or contractual rights that limit our ability to use and disclose the information. We may be required to expend significant capital and other resources to ensure ongoing compliance with applicable privacy and data security laws. Claims that we have violated individuals' privacy rights or breached our contractual obligations, even if we are not found liable, could be expensive and time-consuming to defend and could result in adverse publicity that could harm our business. Additionally, we are subject to state and foreign equivalents of each of the healthcare laws described above, among others, some of which may be broader in scope and may apply regardless of the payor.

Our ability to use net operating losses and research and development credits to offset future taxable income may be subject to certain limitations.

In general, under Sections 382 and 383 of the Code, a corporation that undergoes an "ownership change" is subject to limitations on its ability to utilize its pre-change net operating losses or tax credits, or NOLs or credits, to offset future taxable income or taxes. As a result of the shares issued in July 2020 related to the acquisition of Kiq and the sale of Series A convertible preferred stock, the Company has experienced a change in ownership, as defined by Section 382. As a result of the ownership change, utilization of the federal and state net operating loss carryforwards and research and development tax credit carryforwards is subject to annual limitation under Section 382. Under Section 382, the annual limitation is determined by first multiplying the value of the Company's stock at the time of the ownership change by the applicable long-term tax-exempt rate, and then could be subject to additional adjustments, as required. This limitation resulted in the expiration of federal and state net operating loss carryforwards before utilization of \$26.9 million and \$79.5 million, respectively, and federal and state research and development tax credit carryforwards before utilization of \$6.6 million and \$2.0 million, respectively. We have written off these gross deferred tax attributes, which were previously fully reserved for, in 2020. As of December 31, 2021, approximately \$63.1 million and \$3.0 million of federal and state net operating losses, respectively, as well as \$10.6 million of future amortization for federal purposes, were subject to the July 6 limitation of \$0.3 million per year. A second ownership change occurred in December 2020 as a result of the underwritten public offering of common stock which resulted in a limitation of tax attributes generated from July 7, 2020 to December 1, 2020. The December 1, 2020 ownership change is not expected to have a material impact to the Company's net operating loss carryforwards or research and development tax credit carryforwards as these net operating losses and tax credit carryforwards may be utilized, subject to annual limitation, assuming sufficient taxable income is generated before expiration. For further information, see "Note 11 —Income Taxes."

Risks Related to Our Intellectual Property

We depend on intellectual property licensed from third parties and termination of any of these licenses could result in the loss of significant rights, which would harm our business.

We are dependent on patents, know-how and proprietary technology, both our own and licensed from others. In particular, bezuclastinib and other molecules are subject to a license from Plexxikon. We expect in the future to be party to additional material license or collaboration agreements. Any termination of our current or future licenses could result in the loss of significant rights and could harm our ability to commercialize our product candidates. These licenses do and future licenses may include provisions that impose obligations and restrictions on us. This could delay or otherwise negatively impact a transaction that we may wish to enter into. Disputes may also arise between us and our licensors regarding intellectual property subject to a license agreement. If disputes over intellectual property that we have licensed prevent or impair our ability to maintain our current licensing arrangements on acceptable terms, we may be unable to successfully develop and commercialize the affected product candidates. We are generally also subject to all of the same risks with respect to protection of intellectual

property that we license, as we are for intellectual property that we own, which are described below. If we or our licensors fail to adequately protect this intellectual property, our ability to commercialize products could suffer.

We may not be successful in obtaining or maintaining necessary rights to product components and processes for our development pipeline through acquisitions and in-licenses.

Presently we have rights to certain intellectual property, through licenses from third parties and under patent applications that we own or will own, related to bezuclastinib, and certain other product candidates. Because additional product candidates may require the use of proprietary rights held by third parties, the growth of our business will likely depend in part on our ability to acquire, in-license or use these proprietary rights. Our product candidates may also require specific formulations to work effectively and efficiently and these rights may be held by others. Similarly, efficient production or delivery of our product candidates may also require specific compositions or methods, and the rights to these may be owned by third parties. We may be unable to acquire or in-license any compositions, methods of use, processes or other third-party intellectual property rights from third parties that we identify. Even if we are able to obtain a license, it may be non-exclusive, thereby giving our competitors access to the same technologies licensed to us. In that event, we may be required to expend significant time and resources to develop or license replacement technology.

If our efforts to protect the proprietary nature of the intellectual property related to our technologies are not adequate, we may not be able to compete effectively in our market.

We rely upon a combination of patents, confidentiality agreements, trade secret protection and license agreements to protect the intellectual property related to our technologies. Any disclosure to or misappropriation by third parties of our confidential proprietary information could enable competitors to quickly duplicate or surpass our technological achievements, thus eroding our competitive position in our market. For further information regarding our patent portfolio, see “Business—Intellectual Property.”

Currently, we have patents issued from our in-licensed portfolio under our license agreement with Plexxikon, in multiple territories, including but not limited to, Australia, Canada, China, Colombia, Europe (validated in Germany, Spain, France, Great Britain, Italy, the Netherlands, as well as various other EU countries), Hong Kong, India, Indonesia, Israel, Japan, Mexico, New Zealand, Peru, the Philippines, Republic of Korea, Russia, Singapore, South Africa, Taiwan, and the United States. We also have patent applications pending in Brazil, Egypt and the United States. We anticipate additional patent applications will be filed both in the United States and in other countries, as appropriate.

Third parties may challenge the validity, enforceability or scope thereof, which may result in such patents being narrowed, invalidated or held unenforceable. Furthermore, even if they are unchallenged, our patents and patent applications may not adequately protect our intellectual property or prevent others from designing around our claims. If the breadth or strength of protection provided by the patent applications we hold with respect to our product candidates is threatened, it could dissuade companies from collaborating with us to develop, and threaten our ability to commercialize, our product candidates. Further, if we encounter delays in our clinical trials, the period of time during which we could market our product candidates under patent protection would be reduced.

Third-party claims of intellectual property infringement may prevent or delay our product discovery and development efforts.

Our commercial success depends in part on our avoiding infringement of the patents and proprietary rights of third parties. As the biotechnology and pharmaceutical industries expand and more patents are issued, the risk increases that our product candidates may give rise to claims of infringement of the patent rights of others. Third parties may assert that we are employing their proprietary technology without authorization. While we do not believe that any claims that could materially adversely affect commercialization of our product candidates, if approved, are valid and enforceable, we may be incorrect in this belief, or we may not be able to prove it in litigation. There may be third-party patents of which we are currently unaware with claims to materials, formulations, methods of manufacture or methods for treatment related to the use or manufacture of our product candidates. Because patent applications can take many years to issue, there may be currently pending patent applications which may later result in issued patents that our product candidates may infringe. In the event of a successful claim of infringement against us, we may have to pay substantial damages, including treble damages and attorneys’ fees for willful infringement, obtain one or more licenses from third parties, pay royalties or redesign our infringing products, which may be impossible or require substantial time and monetary expenditure.

We may fail to identify relevant patents or incorrectly conclude that a patent is invalid, not enforceable, exhausted, or not infringed by our activities. If any third-party patents were held by a court of competent jurisdiction to cover the manufacturing process of our product candidates, molecules used in or formed during the manufacturing process, or any final product itself, the holders of any such patents may be able to block our ability to commercialize the product candidate unless we obtained a license under the applicable patents, or until such patents expire or they are finally determined to be held invalid or unenforceable. Similarly, if any third-party patent were held by a court of competent jurisdiction to cover aspects of our formulations, processes for manufacture or methods of use, including combination therapy or patient selection methods, the holders of any such patent may be able to block our ability to develop and commercialize the product candidate unless we obtained a license or until such patent expires or is finally determined to be held invalid or unenforceable. In either case, if we are unable to obtain a necessary license to a third-party patent on commercially reasonable terms, or at all, our ability to commercialize our product candidates may be impaired or delayed, which could in turn significantly harm our business.

Parties making claims against us may seek and obtain injunctive or other equitable relief, which could effectively block our ability to further develop and commercialize our product candidates. Defense of these claims, regardless of their merit, could involve substantial litigation expense and would be a substantial diversion of employee resources from our business. We cannot predict whether any such license would be available at all or whether it would be available on commercially reasonable terms. Furthermore, even in the absence of litigation, we may need or may choose to obtain licenses from third parties to advance our research or allow commercialization of our product candidates. We may fail to obtain any of these licenses at a reasonable cost or on reasonable terms, if at all. In that event, we would be unable to further develop and commercialize our product candidates, which could harm our business significantly.

We may be involved in lawsuits to protect or enforce our patents or the patents of our licensors, which could be expensive, time-consuming and unsuccessful.

Competitors may infringe our patents or the patents of our licensors. To counter infringement or unauthorized use, we may be required to file infringement claims, which can be expensive and time-consuming. An adverse result in any litigation or defense proceedings could put one or more of our patents at risk of being invalidated, held unenforceable, or interpreted narrowly and could put our patent applications at risk of not issuing. Defense of these claims, regardless of their merit, would involve substantial litigation expense and would be a substantial diversion of employee resources from our business.

An unfavorable outcome of any post-grant proceedings, including interference proceedings, provoked by third parties or brought by the USPTO could result in a loss of our current patent rights and could require us to cease using the related technology or to attempt to license rights to it from the prevailing party. Our business could be harmed if the prevailing party does not offer us a license on commercially reasonable terms. Litigation or post-grant proceedings may result in a decision adverse to our interests and, even if we are successful, may result in substantial costs and distract our management and other employees. We may not be able to prevent, alone or with our licensors, misappropriation of our trade secrets or confidential information, particularly in countries where the laws may not protect those rights as fully as in the United States.

Issued patents covering our product candidates could be found invalid or unenforceable if challenged in court or the USPTO.

If we or one of our licensing partners initiate legal proceedings against a third party to enforce a patent covering one of our product candidates, the defendant could counterclaim that the patent covering our product candidate, as applicable, is invalid and/or unenforceable. Third parties may also raise similar claims before administrative bodies in the United States or abroad, even outside the context of litigation. Such proceedings could result in revocation or amendment to our patents in such a way that they no longer cover our product candidates. The outcome following legal assertions of invalidity and unenforceability is unpredictable. If a defendant were to prevail on a legal assertion of invalidity and/or unenforceability, we would lose at least part, and perhaps all, of the patent protection on our product candidates. Such a loss of patent protection could have a material adverse impact on our business.

Risks Related to Employee Matters and Managing Growth

We are highly dependent on our key personnel, and if we are not successful in attracting and retaining highly qualified personnel, we may not be able to successfully implement our business strategy.

Our inability or failure to successfully attract and retain qualified personnel, particularly at the management level, could adversely affect our ability to execute our business plan and harm our operating results. We are highly dependent on our

management, scientific and medical personnel, including our Chief Executive Officer and President, our Chief Financial Officer, our Chief Technology Officer, our Chief Scientific Officer, our Chief Medical Officer and our Chief Legal Officer. The loss of the services of any of our executive officers, other key employees and other scientific and medical advisors, and an inability to find suitable replacements could result in delays in product development and harm our business.

Competition for skilled personnel in our market is intense and may limit our ability to hire and retain highly qualified personnel on acceptable terms or at all. Our success also depends on our ability to continue to attract, retain and motivate highly skilled junior, mid-level and senior managers as well as junior, mid-level and senior scientific and medical personnel. Despite our efforts to retain valuable employees, members of our management, scientific and development teams may terminate their employment with us on short notice. The employment agreements with our key employees provide for at-will employment, which means that any of our employees could leave our employment at any time, with or without notice.

We have undergone significant growth across both locations over the past year and we may face challenges in managing our growth.

Over the past year, we have expanded our headcount from 15 to 77 full time employees through the expansion of our research, development, manufacturing and G&A infrastructure. To manage these organizational changes and growth, we must continue to enhance our operational, financial and management controls and systems, reporting systems and infrastructure, and policies and procedures. We may not be able to implement enhancements to our management information and control systems in an efficient or timely manner and may discover deficiencies in existing systems and controls. We must also continue to recruit, train and retain qualified personnel and we may be unable to do so effectively. If our management is unable to effectively manage our growth, our expenses may increase more than expected, our development timelines may be delayed, our ability to generate revenue could be reduced, and we may not be able to implement our business strategy.

Our business and operations could suffer in the event of system failures or unauthorized or inappropriate use of or access to our systems.

We are increasingly dependent on our information technology systems and infrastructure for our business. We collect, store and transmit sensitive information including intellectual property, proprietary business information and personal information in connection with business operations. The secure maintenance of this information is critical to our operations and business strategy. Some of this information could be an attractive target of criminal attack or unauthorized access and use by third parties with a wide range of motives and expertise, including organized criminal groups, “hacktivists,” patient groups, disgruntled current or former employees and others. Cyber-attacks are of ever-increasing levels of sophistication, and despite our security measures, our information technology and infrastructure may be vulnerable to such attacks or may be breached, including due to employee error or malfeasance.

Despite the implementation of security measures, our internal computer systems and those of our contractors and consultants are vulnerable to damage or interruption from computer viruses, unauthorized or inappropriate access or use, natural disasters, pandemics (including COVID-19), terrorism, war, and telecommunication and electrical failures. Such events could cause interruption of our operations. For example, the loss of pre-clinical trial data or data from completed or ongoing clinical trials for our product candidates could result in delays in our regulatory filings and development efforts, as well as delays in the commercialization of our products, and significantly increase our costs. To the extent that any disruption, security breach or unauthorized or inappropriate use or access to our systems were to result in a loss of or damage to our data, or inappropriate disclosure of confidential or proprietary information, including but not limited to patient, employee or vendor information, we could incur notification obligations to affected individuals and government agencies, liability, including potential lawsuits from patients, collaborators, employees, stockholders or other third parties and liability under foreign, federal and state laws that protect the privacy and security of personal information, and the development and potential commercialization of our product candidates could be delayed.

Risks Related to Our Financial Position and Need for Additional Capital

We have incurred net losses in every year since our inception and anticipate that we will continue to incur net losses in the future.

We are a clinical-stage biopharmaceutical company with a limited operating history. Investment in biopharmaceutical product development is highly speculative because it entails substantial upfront capital expenditures and significant risk that

any potential product candidate will fail to demonstrate adequate effect or an acceptable safety profile, gain regulatory approval and become commercially viable. We have no products approved for commercial sale and have not generated any revenue from product sales to date, and we continue to incur significant research and development and other expenses related to our ongoing operations. As a result, we are not profitable and have incurred losses in each period since our inception in March 2014. For further information, see “Management’s Discussion and Analysis of Financial Condition and Results of Operations.”

There can be no assurance that the product candidates under development by us will be approved for sale in the United States or elsewhere. Furthermore, there can be no assurance that if such products are approved, they will be successfully commercialized, which would have an adverse effect on our business prospects, financial condition and results of operation. Even if we succeed in commercializing one or more of our product candidates, we will continue to incur substantial research and development and other expenditures to develop and market additional product candidates. Our prior losses and expected future losses have had and will continue to have an adverse effect on our stockholders’ equity and working capital.

We will require substantial additional funding. If we fail to obtain additional financing when needed, or on attractive terms, we may be unable to complete the development and commercialization of our product candidates.

Our operations have consumed substantial amounts of cash since inception. We expect to continue to spend substantial amounts to continue the clinical and preclinical development of our product candidates, including our planned clinical trials for bezuclastinib. If approved, we will require significant additional amounts in order to launch and commercialize our product candidates. We cannot be certain that additional funding will be available on acceptable terms, or at all. Raising additional capital may cause dilution to our existing stockholders, restrict our operations or require us to relinquish rights to our technologies or product candidates. If we are unable to raise additional capital in sufficient amounts or on terms acceptable to us, we may have to significantly delay, scale back or discontinue the development or commercialization of our product candidates or other research and development initiatives. Our license agreements may also be terminated if we are unable to meet the payment and other obligations under the agreements. We could be required to seek collaborators for our product candidates at an earlier stage than otherwise would be desirable or on terms that are less favorable than might otherwise be available or relinquish or license on unfavorable terms our rights to our product candidates in markets where we otherwise would seek to pursue development or commercialization ourselves.

Any of the above events could significantly harm our business, prospects, financial condition and results of operations and cause the price of our common stock to decline. For further information, see “Business - Our Strategy,” which details our operating plan with respect to the development and commercialization of our product candidates.

Risks Related to Ownership of our Common Stock

An active trading market for our common stock may not be sustained.

Our common stock began trading on the Nasdaq Global Select Market on March 29, 2018. Given the limited trading history and low volumes of our common stock, there is a risk that an active trading market for our shares may not be sustained, which could put downward pressure on the market price of our common stock and thereby affect the ability of our stockholders to sell some or all of their shares at attractive prices, at the times and in the volumes that they would like to sell them, or at all.

The price of our stock may be volatile, and you could lose all or part of your investment.

The trading price of our common stock is likely to continue to be highly volatile. Market prices for our common stock could be subject to wide fluctuations in response to various factors. In addition, the stock market in general, and The Nasdaq Global Select Market and biopharmaceutical companies in particular, have experienced extreme price and volume fluctuations that have often been unrelated or disproportionate to the operating performance of these companies. If the market price of our common stock does not exceed your purchase price, you may not realize any return on your investment in us and may lose some or all of your investment. In the past, securities class action litigation has often been instituted against companies following periods of volatility in the market price of a company’s securities. This type of litigation, if instituted, could result in substantial costs and a diversion of management’s attention and resources, which would harm our business, operating results, or financial condition.

Our principal stockholders and management own a significant percentage of our stock and will be able to exert significant influence over matters subject to stockholder approval.

Our executive officers, directors, and 5% stockholders beneficially owned approximately 56% of our outstanding common stock as of December 31, 2021. These stockholders will have the ability to influence us through this ownership position. These stockholders may be able to determine all matters requiring stockholder approval. For example, these stockholders may be able to control elections of our directors, amendments to our organizational documents, or approval of any merger, sale of assets, or other major corporate transaction. This may prevent or discourage unsolicited acquisition proposals or offers for our common stock that may be in the best interests of our stockholders.

Future sales and issuances of our common stock or rights to purchase common stock could result in additional dilution of the percentage ownership of our stockholders and could cause our stock price to fall.

We expect that significant additional capital may be needed in the future to continue our planned operations, including conducting clinical trials, commercialization efforts, research and development activities, and incurring costs associated with operating as a public company. To raise capital, we may sell common stock, convertible securities, or other equity securities in one or more transactions at prices and in a manner we determine from time to time. If we sell common stock, convertible securities, or other equity securities, investors may be materially diluted by such sales. Such sales may also result in material dilution to our existing stockholders, and new investors could gain rights, preferences, and privileges senior to the holders of our common stock.

Anti-takeover provisions under our charter documents and Delaware law could delay or prevent a change of control, which could limit the market price of our common stock and may prevent or frustrate attempts by our stockholders to replace or remove our current management.

Our amended and restated certificate of incorporation and amended and restated bylaws contain provisions that could delay or prevent a change of control of our company or changes in our board of directors that our stockholders might consider favorable. In addition, because we are incorporated in Delaware, we are governed by the provisions of Section 203 of the Delaware General Corporation Law, which may prohibit certain business combinations with stockholders owning 15% or more of our outstanding voting stock. These anti-takeover provisions and other provisions in our amended and restated certificate of incorporation and amended and restated bylaws could make it more difficult for stockholders or potential acquirers to obtain control of our board of directors or initiate actions that are opposed by the then-current board of directors and could also delay or impede a merger, tender offer, or proxy contest involving our company. These provisions could also discourage proxy contests and make it more difficult for you and other stockholders to elect directors of your choosing or cause us to take other corporate actions you desire. Any delay or prevention of a change of control transaction or changes in our board of directors could cause the market price of our common stock to decline.

Our amended and restated certificate of incorporation provides that the Court of Chancery of the State of Delaware will be the exclusive forum for substantially all disputes between us and our stockholders, which could limit our stockholders' ability to obtain a favorable judicial forum for disputes with us or our directors, officers or employees.

Our amended and restated certificate of incorporation provides that the Court of Chancery of the State of Delaware will be the exclusive forum for any derivative action or proceeding brought on our behalf, any action asserting a breach of fiduciary duty, any action asserting a claim against us arising pursuant to the Delaware General Corporation Law, our amended and restated certificate of incorporation or our amended and restated bylaws, any action to interpret, apply, enforce, or determine the validity of our certificate of incorporation or bylaws or any action asserting a claim against us that is governed by the internal affairs doctrine. The choice of forum provision may limit a stockholder's ability to bring a claim in a judicial forum that it finds favorable for disputes with us or our directors, officers, or other employees, which may discourage such lawsuits against us and our directors, officers, and other employees. Alternatively, if a court were to find the choice of forum provision contained in our certificate of incorporation to be inapplicable or unenforceable in an action, we may incur additional costs associated with resolving such action in other jurisdictions, which could adversely affect our business and financial condition.

ITEM 1B. UNRESOLVED STAFF COMMENTS

None.

ITEM 2. PROPERTIES

Cambridge, Massachusetts

Our corporate headquarters are located in Cambridge, Massachusetts, where we lease approximately 33,500 square feet of office and laboratory space pursuant to a lease agreement commencing in July 2015 and expiring in April 2023. This facility houses our clinical, regulatory, and administrative personnel. We sublease approximately 70% space under the terms of our sublease agreement.

Boulder, Colorado

We also lease approximately 38,075 square feet in Boulder, Colorado, and are in the process of building out the facility to include office and laboratory space. Lease payments will begin upon the earlier of (i) substantial completion of tenant improvements or (ii) May 1, 2022. The Company will be entitled to 14 months of free rent, followed by an initial lease term of 12 years. The Company also has the option to extend the lease for three successive five-year terms.

We believe that our current facilities are adequate to meet our immediate needs.

ITEM 3. LEGAL PROCEEDINGS

We are not currently a party to any material legal proceedings. From time to time, we may be subject to various legal proceedings and claims that arise in the ordinary course of our business activities. Regardless of the outcome, litigation can have a material adverse effect on us because of defense and settlement costs, diversion of management resources, and other factors.

ITEM 4. MINE SAFETY DISCLOSURES

Not applicable.

PART II

ITEM 5. MARKET FOR REGISTRANT’S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES

Certain Information Regarding the Trading of Our Common Stock

Our common stock trades under the symbol “COGT” on the Nasdaq Global Select Market and has been publicly traded since March 29, 2018. On October 2, 2020, we filed an amendment to our certificate of incorporation to change our name from Unum Therapeutics Inc. to Cogent Biosciences, Inc. The name change became effective on October 6, 2020. In connection with the name change, our common stock began trading under the ticker symbol “COGT.” Our common stock previously traded under the ticker symbol “UMRX.” Prior to March 29, 2018, there was no public market for our common stock.

Holder of Our Common Stock

As of March 11, 2022, there were approximately 4 holders of record of shares of our common stock. This number does not include stockholders for whom shares are held in “nominee” or “street” name.

Dividends

We have never declared or paid any cash dividends on our capital stock. We currently intend to retain all available funds and any future earnings for use in the operation of our business and do not anticipate paying any dividends on our common stock in the foreseeable future. Any future determination to declare dividends will be made at the discretion of our board of directors and will depend on our financial condition, operating results, capital requirements, general business conditions and other factors that our board of directors may deem relevant.

Securities authorized for issuance under equity compensation plans

Information about our equity compensation plans will be included in our definitive proxy statement to be filed with the SEC with respect to our 2022 Annual Meeting of Stockholders and is incorporated herein by reference.

Recent Sales of Unregistered Equity Securities

None.

Issuer Purchases of Equity Securities

None.

ITEM 6. Reserved

ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

The following discussion and analysis of our financial condition and results of operations should be read in conjunction with our financial statements and related notes appearing at the end of this Annual Report on Form 10-K. Some of the information contained in this discussion and analysis or set forth elsewhere in this Annual Report on Form 10-K, including information with respect to our plans and strategy for our business, includes forward looking statements that involve risks and uncertainties. As a result of many factors, including those factors set forth in the "Risk Factors" section of this Annual Report on Form 10-K, our actual results could differ materially from the results described in, or implied by, the forward-looking statements contained in the following discussion and analysis.

Overview

We are a biotechnology company focused on developing precision therapies for genetically defined diseases. Our approach is to design rational precision therapies that treat the underlying cause of disease and improve the lives of patients. Our most advanced program is bezuclastinib (also known as CGT9486), a selective tyrosine kinase inhibitor designed to potently inhibit the KIT D816V mutation as well as other mutations in KIT exon 17. In the vast majority of cases, KIT D816V is responsible for driving Systemic Mastocytosis ("SM"), a serious disease caused by unchecked proliferation of mast cells. Exon 17 mutations are also found in patients with advanced gastrointestinal stromal tumors ("GIST"), a type of cancer with strong dependence on oncogenic KIT signaling. Bezuclastinib is a highly selective and potent KIT inhibitor with the potential to provide a new treatment option for these patient populations.

Bezuclastinib has been administered to more than 50 advanced solid tumor and GIST patients in a Phase 1/2 clinical trial, with the vast majority of those patients living with advanced GIST. GIST is a disease frequently driven by KIT mutations, and resistance to currently available therapeutics is frequently associated with the emergence of other KIT mutations. Anti-tumor activity for bezuclastinib was observed in both single agent and combination settings, including in combination with sunitinib, an approved treatment option for GIST patients. Clinical data from this trial have been published in the Journal of American Medical Association ("JAMA") and have been presented at several scientific conferences, including most recently by Cogent at the 2020 annual Connective Tissue Oncology Society ("CTOS") meeting, and previously by Plexxikon Inc. ("Plexxikon"), a member of the Daiichi Sankyo Group, at the 2018 annual American Society of Clinical Oncology ("ASCO") meeting and the 2017 annual CTOS meeting. Within the group of 15 heavily pre-treated GIST patients who received the combination of bezuclastinib and sunitinib, and who had not received prior treatment with bezuclastinib, the confirmed objective response rate ("ORR") was twenty percent, including two partial responses and one complete response, while the estimated median progression free survival ("mPFS") for this group was twelve months. Four subjects continued to receive bezuclastinib via individual patient INDs beyond the conclusion of the trial. In October 2021, we presented preclinical data in a virtual poster at the 2021 AACR-NCI-EORTC Virtual International Conference on Molecular Targets and Cancer Therapeutics that identified bezuclastinib as a differentiated, potent and selective KIT mutant inhibitor with unique selectivity for KIT D816V and minimal evidence of brain penetration that avoids targeting PDGFR isoforms.

Based on these results, we initiated PEAK, a randomized open-label, global Phase 3 clinical trial in the fourth quarter of 2021. The PEAK study is designed to evaluate the safety, tolerability, and efficacy of bezuclastinib in combination with sunitinib compared to sunitinib alone in patients with locally advanced, unresectable or metastatic GIST who have received prior treatment with imatinib. The FDA has granted orphan drug designation to bezuclastinib for the treatment of GIST.

In addition to continuing the development of bezuclastinib in GIST patients, we are pursuing development of the compound in patients living with Advanced Systemic Mastocytosis ("AdvSM") and Non-Advanced Systemic Mastocytosis ("Non-AdvSM"). The vast majority of AdvSM and Non-AdvSM patients have a KIT D816V mutation. Patients with AdvSM have a significantly diminished lifespan with a median survival of less than 3.5 years. For patients with Non-AdvSM, there are no available approved therapies, and while their lifespan is not impacted by the disease, these patients suffer from a poor quality of life and new treatment options are badly needed. Emerging clinical data for other kinase inhibitors with activity against KIT D816V have shown that the disease is highly sensitive to inhibition of the target. Bezuclastinib was specifically designed to selectively inhibit KIT mutations on exon 17, including KIT D816V, and we have expanded the clinical development program to include clinical trials in SM patients.

In the second quarter of 2021, we initiated APEX, a Phase 2 clinical study of bezuclastinib in patients with AdvSM. APEX is an open-label, global, multicenter study evaluating the safety, efficacy, pharmacokinetic, and pharmacodynamic profiles of bezuclastinib. We expect to report preliminary clinical data at a scientific conference during the first half of 2022, including safety and tolerability data as well as bezuclastinib's impact on serum trypsin levels, a validated biomarker of mast cell activity.

In the fourth quarter of 2021, we initiated SUMMIT, a randomized, double-blind, placebo-controlled, global Phase 2 clinical trial. The study is designed to explore the safety and efficacy of bezuclastinib in patients with moderate to severe Indolent Systemic Mastocytosis (“ISM”) or Smoldering Systemic Mastocytosis (“SSM”).

In November 2021, through a partnership with Serán Biosciences, we announced the development of an updated formulation of bezuclastinib. This formulation is expected to reduce the number of daily tablets, improving the overall patient experience, and is initially being used in our PEAK trial.

Worldwide rights to develop and commercialize bezuclastinib are exclusively licensed from Plexxikon. Under the terms of the license agreement, Plexxikon received an upfront payment and is eligible for additional development milestones of up to \$7.5 million upon the satisfaction of certain clinical milestones, of which \$2.5 million may become payable in the next twelve months as a result of the progression of our on-going clinical studies, and up to \$25.0 million upon the satisfaction of certain regulatory milestones and mid- to high- single-digit royalty payments.

Patents protecting bezuclastinib include composition of matter claims which have issued in the US and other key territories and provide exclusivity through 2033 and potentially beyond through patent term extensions.

During the second quarter of 2021, we announced the formation of the Cogent Research Team, a highly experienced discovery and research team. Based in Boulder, Colorado, the Cogent Research Team is focused on pioneering best-in-class, small molecule therapeutics to expand Cogent's pipeline and deliver novel precision therapies for patients living with unmet medical needs.

Since our inception in 2014, we have focused significant efforts and financial resources on establishing and protecting our intellectual property portfolio, conducting research and development of our product candidates, manufacturing drug product material for use in preclinical studies and clinical trials, staffing our company, and raising capital. We do not have any products approved for sale and have not generated any revenue from product sales. To date, we have funded our operations primarily with proceeds from the sales of preferred stock, our public offerings of our common stock and private placements.

On July 6, 2020, we issued a contingent value right (“CVR”), which was distributed to stockholders of record as of the close of business on July 6, 2020, and prior to the issuance of any shares to acquire Kiq Bio LLC (“Kiq”) or sold to the Private Investment in Public Equity (“PIPE”) investors. In November 2020, in partial settlement of the CVR obligation, we issued 707,938 shares of common stock. In February 2021, we issued an additional 212,429 shares of common stock and paid \$0.1 million in partial settlement of the CVR obligation.

On July 9, 2020, we completed a PIPE with existing and new investors to raise gross proceeds of \$104.4 million, or net proceeds of \$98.9 million after deducting commissions and offering costs, in which the investors were issued shares of Series A Preferred Stock at a price of \$880 per share or, \$3.52 per share on an as-converted-to-common basis.

Cumulatively, through December 31, 2021, 60,036 shares of Series A Preferred Stock, or 36.8% of the issued Series A Preferred Stock, have been converted into 15,009,000 shares of common stock. The 103,289 shares of Series A Preferred Stock outstanding as of December 31, 2021 are convertible into 25,822,250 shares of common stock, for total common shares outstanding, on an as-converted basis, of 69,628,172.

On December 4, 2020, we completed an underwritten public offering of 11,794,872 shares of our common stock at a public offering price of \$9.75 per share. This included the exercise in full by the underwriters of their 30-day option to purchase up to 1,538,461 additional shares of common stock. The net proceeds from the offering, after deducting the underwriting discounts and commissions and estimated offering expenses, were approximately \$107.7 million.

On February 8, 2021, the Company filed a shelf registration statement on Form S-3 with the SEC. The shelf registration statement allows the Company to sell from time-to-time up to \$200.0 million of common stock, preferred stock, debt securities, warrants or units comprised of any combination of these securities, for its own account in one or more offerings. The terms of any offering under the shelf registration statement will be established at the time of such offering and will be described in a prospectus supplement filed with the SEC prior to the completion of any such offering.

Additionally, on February 8, 2021, pursuant to the Form S-3, the Company entered into a Sales Agreement (the “Sales Agreement”) with SVB Leerink LLC (“SVB Leerink”), pursuant to which the Company may issue and sell, from time to time, shares of its common stock having an aggregate offering price of up to \$75.0 million through SVB Leerink as the sales agent.

As of December 31, 2021, the Company sold 3,954,900 shares of common stock under the Sales Agreement with offering prices ranging between \$9.25 and \$10.30 per share for net proceeds of approximately \$38.0 million.

Since our inception, we have incurred significant operating losses. Our ability to generate product revenue sufficient to achieve profitability will depend heavily on the successful development and eventual commercialization of one or more of our product candidates. Our net losses were \$72.3 million for the year ended December 31, 2021 compared to net losses of \$74.8 million for the year ended December 31, 2020. As of December 31, 2021, we had an accumulated deficit of \$271.0 million. We expect to continue to incur significant expenses and operating losses for at least the next several years. We expect that our expenses and capital requirements will increase substantially in connection with our ongoing activities, particularly if and as we:

- initiate and increase enrollment for our existing and planned clinical trials for our product candidates;
- continue to discover and develop additional product candidates, including through the creation of our research team in Boulder, CO, and build out our lab facility in Boulder, CO;
- acquire or in-license other product candidates and technologies;
- maintain, expand, and protect our intellectual property portfolio;
- hire additional research, clinical, scientific, and commercial personnel;
- establish a commercial manufacturing source and secure supply chain capacity sufficient to provide commercial quantities of any product candidates for which we may obtain regulatory approval;
- seek regulatory approvals for any product candidates that successfully complete clinical trials;
- establish a sales, marketing, and distribution infrastructure to commercialize any products for which we may obtain regulatory approval; and
- add operational, financial, and management information systems and personnel, including personnel to support our product development and planned future commercialization efforts.

We will not generate revenue from product sales unless and until we successfully complete clinical development and obtain regulatory approval for our product candidates. If we obtain regulatory approval for any of our product candidates and do not enter into a commercialization partnership, we expect to incur significant expenses related to developing our internal commercialization capability to support product sales, marketing, and distribution.

As a result, we will need substantial additional funding to support our continuing operations and pursue our growth strategy. Until such time as we can generate significant revenue from product sales, if ever, we expect to finance our operations through a combination of equity offerings, debt financings, collaborations, strategic alliances, and marketing, distribution, or licensing arrangements. We may be unable to raise additional funds or enter into such other agreements or arrangements when needed on favorable terms, or at all. If we fail to raise capital or enter into such agreements as, and when, needed, we may have to significantly delay, scale back, or discontinue the development and commercialization of one or more of our product candidates.

Because of the numerous risks and uncertainties associated with pharmaceutical product development, we are unable to accurately predict the timing or amount of increased expenses or when, or if, we will be able to achieve or maintain profitability. Even if we are able to generate product sales, we may not become profitable. If we fail to become profitable or are unable to sustain profitability on a continuing basis, then we may be unable to continue our operations at planned levels and be forced to reduce or terminate our operations.

As of December 31, 2021, we had cash and cash equivalents of \$219.7 million. Based on our current plans, we expect that our current cash and cash equivalents will be sufficient to fund our operating expenses and capital expenditure requirements into 2024.

The COVID-19 Pandemic

In March 2020, the World Health Organization declared the outbreak of a novel strain of coronavirus, or COVID-19, as a pandemic, which has spread throughout the United States and worldwide. We could be materially and adversely affected by the risks, or the public perception of the risks, related to an epidemic, pandemic, outbreak, or other public health crisis, such as the recent outbreak of COVID-19 and variants thereof. We continue to monitor the pandemic and have taken steps to identify and mitigate the adverse impacts on, and risks to, our business posed by its spread and actions taken by governmental and

health authorities to address the COVID-19 pandemic. The spread of COVID-19 has caused us to modify our business practices, including implementing a work-from-home policy for all employees who are able to perform their duties remotely and restricting all nonessential travel, and we expect to continue to take actions as may be required or recommended by government authorities or as we determine are in the best interests of our employees, the patients we serve and other business partners in light of COVID-19. Given the fluidity of the COVID-19 pandemic however, we do not yet know the full extent of the potential impact of COVID-19 on our business operations. The ultimate extent of the impact of any epidemic, pandemic, outbreak, or other public health crisis on our business, financial condition and results of operations will depend on future developments, which are highly uncertain and cannot be predicted, including new information that may emerge concerning the severity of such epidemic, pandemic, outbreak, or other public health crisis and actions taken to contain or prevent the further spread, among others. Accordingly, we cannot predict with certainty the extent to which our business, financial condition and results of operations will be affected. We will continue to work diligently with our partners and stakeholders to continue advancing our product candidate under regulatory review as well as in our clinical studies to the extent safe to do so for patients, caregivers and healthcare practitioners, and seeking to ensure the continuity of our manufacturing and supply chain.

Components of Our Results of Operations

Revenue

To date, we have not generated any revenue from product sales and do not expect to generate any revenue from the sale of products in the near future. If our development efforts for our product candidates are successful and result in regulatory approval or additional license or collaboration agreements with third parties, we may generate revenue in the future from a combination of product sales or payments from additional collaboration or license agreements that we may enter into with third parties. We expect that our revenue for the next several years will be derived primarily from any collaborations that we may enter into in the future.

Operating Expenses

Research and Development Expenses

Research and development expenses consist primarily of costs incurred for our research activities, including our drug discovery efforts, and the development of our product candidates, which include:

- expenses incurred in connection with the preclinical and clinical development of our product candidates, including under agreements with third parties, such as consultants, contractors and contract research organizations (“CROs”);
- the cost of manufacturing drug products for use in our preclinical studies and clinical trials, including under agreements with third parties, such as consultants, contractors and contract manufacturing organizations (“CMOs”);
- employee-related expenses, including salaries, related benefits and stock-based compensation expense for employees engaged in research and development functions;
- laboratory supplies and animal care;
- facilities, depreciation and other expenses, which include direct and allocated expenses for rent and maintenance of facilities and insurance; and
- payments made under third-party licensing agreements.

We expense research and development costs as incurred. Advance payments that we make for goods or services to be received in the future for use in research and development activities are recorded as prepaid expenses. The prepaid amounts are expensed as the related goods are delivered or the services are performed.

Certain of our direct research and development expenses are tracked on a program-by-program basis and consist of costs, such as fees paid to consultants, contractors, CMOs, and CROs in connection with our preclinical and clinical development activities. We do not allocate employee costs, costs associated with the manufacture of bezuclastinib, costs associated with our discovery efforts, laboratory supplies, and facilities, including depreciation or other indirect costs, to specific product development programs because these costs are deployed across multiple product development programs and, as such, are not separately classified.

Product candidates in later stages of clinical development generally have higher development costs than those in earlier stages of clinical development, primarily due to the increased size and duration of later-stage clinical trials. We expect that our

research and development expenses will increase substantially in connection with our planned clinical and preclinical development activities in the near term and in the future. At this time, we cannot reasonably estimate or know the nature, timing, and costs of the efforts that will be necessary to complete the preclinical and clinical development of any of our product candidates. The successful development and commercialization of our product candidates is highly uncertain. This is due to the numerous risks and uncertainties associated with product development and commercialization, including the following:

- the timing and progress of our preclinical and clinical development activities;
- the number and scope of preclinical and clinical programs we decide to pursue;
- the progress of the development efforts of parties with whom we have entered, or may enter, into collaboration arrangements;
- our ability to maintain our current research and development programs and to establish new ones;
- our ability to establish new licensing or collaboration arrangements;
- the future productivity of our research team in Boulder, CO and its ability to discover new product candidates and build our pipeline;
- the successful completion of clinical trials with safety, tolerability, and efficacy profiles that are satisfactory to the FDA or any comparable foreign regulatory authority;
- the receipt of regulatory approvals from applicable regulatory authorities;
- the success in establishing and operating a manufacturing facility, or securing manufacturing supply through relationships with third parties;
- our ability to obtain and maintain patents, trade secret protection, and regulatory exclusivity, both in the United States and internationally;
- our ability to protect our rights in our intellectual property portfolio;
- the commercialization of our product candidates, if and when approved;
- the acceptance of our product candidates, if approved, by patients, the medical community, and third-party payors;
- competition with other products; and
- a continued acceptable safety profile of our therapies following approval.

A change in the outcome of any of these variables with respect to the development of any of our product candidates could significantly change the costs and timing associated with the development of that product candidate. We may never succeed in obtaining regulatory approval for any of our product candidates.

General and Administrative Expenses

General and administrative expenses consist primarily of salaries and related costs, including stock-based compensation, for personnel in executive, finance, and administrative functions. General and administrative expenses also include direct and allocated facility-related costs as well as professional fees for legal, patent, consulting, investor and public relations, accounting, and audit services. We anticipate that our general and administrative expenses will increase in the future as a result of the costs associated with the expansion of operations to support our on-going clinical and preclinical activities.

Acquired In-process Research and Development (IPR&D)

We expense acquired IPR&D in connection with an asset acquisition when there is no alternative future use, as determined by Management in accordance with GAAP.

Other Income (Expense)

Interest Income

Interest income consists of interest earned on our cash equivalents balances. Our interest income has not been significant due to low interest rates on invested balances.

Other Income

Other income consists of miscellaneous income and expense unrelated to our core operations, primarily income from subleasing a portion of our headquarters facilities.

Change in Fair Value of the CVR liability

This consists of changes in the fair value of the CVR liability.

Income Taxes

Since our inception, we have not recorded any current or deferred tax benefit for the net losses we have incurred in each year or for our research and development tax credits generated, as we believe, based upon the weight of available evidence, that it is more likely than not that our net operating loss carryforwards and tax credits will not be realized. Accordingly, a full valuation allowance has been established against the deferred tax assets as of December 31, 2021. We reevaluate the utilization of net operating loss carryforwards and tax credits at each reporting period. As of December 31, 2021, we had U.S. federal and state net operating loss carryforwards of \$128.8 million and \$47.1 million, respectively, which may be available to offset future income tax liabilities and begin to expire in 2035. Of the federal net operating loss carryforwards at December 31, 2021, \$125.5 million is available to be carried forward indefinitely but can only offset 80% of taxable income per year. As of December 31, 2021, we also had U.S. federal and state research and development tax credit carryforwards of \$3.1 million and \$0.8 million, respectively, which may be available to offset future income tax liabilities and begin to expire in 2040 and 2035, respectively.

Utilization of the U.S. federal and state net operating loss carryforwards and research and development tax credit carryforwards may be subject to annual limitation under Section 382 of the Internal Revenue Code of 1986, and corresponding provisions of state law, due to ownership changes that have occurred previously or that could occur in the future. These ownership changes may limit the amount of carryforwards that can be utilized annually to offset future taxable income. In general, an ownership change, as defined by Section 382, results from transactions increasing the ownership of certain stockholders or public groups in the stock of a corporation by more than 50% over a three-year period.

As a result of the shares issued in July 2020 related to the acquisition of Kiq and the sale of Series A Preferred Stock, the Company has experienced a change in ownership, as defined by Section 382. As a result of the ownership change, utilization of the federal and state net operating loss carryforwards and research and development tax credit carryforwards is subject to annual limitation under Section 382. Under Section 382, the annual limitation is determined by first multiplying the value of the Company's stock at the time of the ownership change by the applicable long-term tax-exempt rate, and then could be subject to additional adjustments, as required. This limitation resulted in the expiration of federal and state net operating loss carryforwards before utilization of \$26.9 million and \$79.5 million, respectively, and federal and state research and development tax credit carryforwards before utilization of \$6.6 million and \$2.0 million, respectively. We have written off these gross deferred tax attributes, which were previously fully reserved for, in 2020. As of December 31, 2021, approximately \$63.1 million and \$3.0 million of federal and state net operating losses, respectively, as well as \$10.6 million of future amortization for federal purposes were subject to the July 2020 limitation of \$0.3 million per year. A second ownership change occurred in December 2020 as a result of the underwritten public offering of common stock which resulted in a limitation of tax attributes generated from July 7, 2020 to December 1, 2020. The December 1, 2020 ownership change is not expected to have a material impact to the Company's net operating loss carryforwards or research and development tax credit carryforwards as these net operating losses and tax credit carryforwards may be utilized, subject to annual limitation, assuming sufficient taxable income is generated before expiration.

We have recorded a full valuation allowance against our net deferred tax assets at each balance sheet date.

Results of Operations

Comparison of the Years Ended December 31, 2021 and 2020

The following table summarizes our results of operations for the years ended December 31, 2021 and 2020:

	Year Ended December 31,	
	2021	2020
	(in thousands)	
Collaboration revenue	\$ —	\$ 7,871
Operating expenses:		
Research and development	55,913	25,738
General and administrative	19,638	17,422
Acquired in-process research and development	—	46,910
Total operating expenses	75,551	90,070
Loss from operations	(75,551)	(82,199)
Other income (expense):		
Interest income	467	144
Gain on disposal of long-lived assets	—	7,493
Other income	2,468	779
Change in fair value of CVR liability	343	(1,025)
Total other income, net	3,278	7,391
Net loss	\$ (72,273)	\$ (74,808)

Collaboration Revenue

No collaboration revenue was recognized during the year ended December 31, 2021. Collaboration revenue recognized during the year ended December 31, 2020, was \$7.9 million related to our legacy assets. All performance obligations were completed and all remaining revenue was recognized in 2020.

Research and Development Expenses

Research and development expenses were \$55.9 million for the year ended December 31, 2021, compared to \$25.7 million for the year ended December 31, 2020. The increase in research and development expense during the year ended December 31, 2021, compared to the year ended December 31, 2020, is driven by costs associated with the manufacture and development of bezuclastinib and the development of the research pipeline, as well as higher personnel costs driven by an increase in headcount.

General and Administrative Expenses

General and administrative expenses for the year ended December 31, 2021 was \$19.6 million, compared to \$17.4 million for the year ended December 31, 2020. The increase in general and administrative expenses was primarily due to higher personnel costs driven by an increase in headcount.

Acquired In-process Research and Development (IPR&D)

No acquired IPR&D was expensed during the year ended December 31, 2021. During the year ended December 31, 2020, we expensed acquired IPR&D, with an estimated fair value of \$46.9 million, including \$2.1 million of associated transaction costs, in connection with the Kiq Acquisition.

Interest Income

Interest income for the year ended December 31, 2021 was \$0.5 million, compared to \$0.1 million for the year ended December 31, 2020. The impact of higher average invested balances in the current year was partially offset by lower interest rates in the current year compared to the prior period.

Gain on disposal of long-lived assets

No disposals of long-lived assets occurred in the year ended December 31, 2021. During the year ended December 31, 2020, we recorded a gain on disposal of long-lived assets of \$7.5 million, representing the net proceeds of the sale of BOXR Platform assets as well as the proceeds from the sale of other long-lived assets.

Other Income

Other income, net was \$2.5 million for the year ended December 31, 2021, compared to \$0.8 million for the year ended December 31, 2020. Other income represents sublease income recognized resulting from the sublease of a portion of our leased office space.

Change in fair value of CVR liability

The change in fair value of CVR liability for the year ended December 31, 2021, represents the remeasurement of the CVR liability as a result of changes in our stock price prior to issuance of the common stock issued in partial settlement of the CVR.

Liquidity and Capital Resources

We have incurred certain costs related to the COVID-19 outbreak as a result of taking necessary precautions for essential personnel to operate safely both in person as well as remotely. Costs incurred include items like incremental payroll costs, consulting support, IT infrastructure and facilities related costs. The estimated impact of COVID-19 is currently unknown. The final impact may vary based on the duration of the current social and economic conditions. To the extent the COVID-19 pandemic continues, it may materially impact our financial condition, liquidity or results of operations in the future. We do not currently believe the accumulated costs will present a material impact to our financial liquidity or position.

Since our inception, we have incurred significant operating losses. We have generated limited revenue to date from funding arrangements with our former collaboration partner. We have not yet commercialized any of our product candidates and we do not expect to generate revenue from sales of any product candidates for several years, if at all. We have historically funded our operations primarily through the public offering and private placement of our securities and consideration received from our collaborative agreements.

On July 9, 2020, we completed a PIPE and issued 118,638 Series A Preferred Stock to new and existing investors in exchange gross proceeds of \$104.4 million, or net proceeds of \$98.9 million, after deducting commissions and offering costs.

On December 4, 2020, we completed an underwritten public offering of 11,794,872 shares of our common stock at a public offering price of \$9.75 per share (including the exercise in full by the underwriters of their 30-day option to purchase up to 1,538,461 additional shares of common stock), or net proceeds from the offering of \$107.7 million, after deducting the underwriting discounts and commissions and offering expenses.

As of December 31, 2021, the Company sold 3,954,900 shares of common stock under the Sales Agreement with SVB Leerink with offering prices ranging between \$9.25 and \$10.30 per share for net proceeds of approximately \$38.0 million

As of December 31, 2021, we had cash and cash equivalents of \$219.7 million, which we believe will be sufficient to fund our operating expenses and capital expenditure requirements into 2024.

Cash Flows

The following table summarizes our sources and uses of cash for each of the periods presented:

	<u>Year Ended December 31,</u>	
	<u>2021</u>	<u>2020</u>
	<u>(in thousands)</u>	
Net cash used in operating activities	\$ (58,763)	\$ (35,850)
Net cash (used in) provided by investing activities	(1,719)	8,420
Net cash provided by financing activities	37,976	232,196
Net (decrease) increase in cash, cash equivalents and restricted cash	<u>\$ (22,506)</u>	<u>\$ 204,766</u>

Operating Activities

During the year ended December 31, 2021, operating activities used \$58.8 million of cash, primarily resulting from our net loss of \$72.3 million, partially offset by changes in our operating assets and liabilities of \$2.0 million and net non-cash charges of \$11.5 million. Net cash used by changes in our operating assets and liabilities for the year ended December 31, 2021 consisted primarily of a \$0.2 million decrease in prepaid expenses and other current assets, a \$2.1 million decrease in operating lease liabilities and a \$3.7 million decrease in other assets, partially offset by \$6.2 million increase in accounts payable and accrued expenses and other current liabilities, and a \$1.8 million increase in the right-of-use asset.

During the year ended December 31, 2020, operating activities used \$35.9 million of cash, primarily resulting from our net loss of \$74.8 million and from net cash used by changes in our operating assets and liabilities of \$5.3 million, partially offset by net non-cash charges of \$44.3 million. Net cash used by changes in our operating assets and liabilities for the year ended December 31, 2020 consisted primarily of a \$4.8 million decrease in accounts payable and accrued expenses and other current liabilities, a \$1.3 million decrease in deferred revenue, a \$1.5 million increase in prepaid expenses and other current assets, and a \$0.8 million decrease in operating lease liabilities, partially offset by a \$2.0 million decrease in accounts receivable, a \$0.7 million decrease in the right-of-use asset, and a \$0.4 million decrease in other assets.

Changes in accounts payable, accrued expenses, and prepaid expenses and other current assets and other assets in all periods were generally due to changes in our business, the advancement of our product candidates, and the timing of vendor invoicing and payments.

Investing Activities

During the year ended December 31, 2021, net cash used in investing activities was \$1.7 million, consisting of purchases of property and lab equipment.

During the year ended December 31, 2020, net cash provided by investing activities was \$8.4 million, which consisted of \$8.1 million in proceeds from the disposal of the BOXR Platform as well as \$0.3 million in proceeds from the sale of other property and equipment.

Financing Activities

During the year ended December 31, 2021, net cash provided by financing activities was \$38.0 million which consisted of \$38.0 million in net proceeds from the issuance of common stock under the ATM, \$0.1 million from the issuance of common stock upon stock option exercises and from the issuance of common stock under the Employee Stock Purchase Plan. This is offset by \$0.1 million in payments to CVR holders.

During the year ended December 31, 2020, net cash provided by financing activities was \$232.2 million which consisted of \$107.7 million in proceeds from the issuance of common stock in underwritten public offering, net of issuance costs, \$98.9 million in proceeds from the issuance of Series A Preferred Stock and common stock, net of issuance costs, \$25.0 million from the issuance of common stock to LPC, \$0.5 million from the issuance of common stock upon stock option exercises, and \$0.1 million from the issuance of common stock under the Employee Stock Purchase Plan.

Funding Requirements

We expect our expenses to increase in connection with our ongoing activities, particularly as we advance the clinical development of our current and any future product candidates and conduct additional research, development and preclinical activities. The timing and amount of our operating expenditures will depend largely on:

- the initiation, progress, timing, and completion of preclinical studies and clinical trials for our current and future potential product candidates, including the impact of COVID-19 on our ongoing and planned research and development efforts;
- any delay in our regulatory filings for our product candidates and any adverse development or perceived adverse development with respect to the applicable regulatory authority's review of such filings, including without limitation the FDA's issuance of a "refusal to file" letter or a request for additional information;
- adverse results or delays in clinical trials;
- our decision to initiate a clinical trial, not to initiate a clinical trial, or to terminate an existing clinical trial;
- adverse regulatory decisions, including failure to receive regulatory approval of our product candidates;
- changes in laws or regulations applicable to our products, including but not limited to clinical trial requirements for approvals;

- adverse developments concerning our manufacturers;
- our inability to obtain adequate product supply for any approved product or our inability to do so at acceptable prices;
- our inability to establish collaborations, if desired or needed;
- our failure to commercialize our product candidates;
- the cost and timing of completion of the build out of our new office and laboratory facility in Boulder, CO;
- additions or departures of key scientific or management personnel;
- unanticipated serious safety concerns related to the use of our product candidates; and
- the impact of COVID-19 on the operations of key governmental agencies, such as the FDA, which may delay the development of our current product candidates or any future product candidates.

Based on our current plans, we believe that our existing cash and cash equivalents of \$219.7 million as of December 31, 2021 will enable us to fund our operating expenses and capital expenditure requirements into 2024. We have based this estimate on assumptions that may prove to be wrong, and we could exhaust our available capital resources sooner than we expect. The Company will require additional funding to complete the critical activities planned to support ongoing research and development programs.

Until such time, if ever, as we can generate substantial product revenue, we expect to finance our operations through a combination of equity offerings, debt financings, collaborations, strategic alliances, and marketing, distribution, or licensing arrangements. To the extent that we raise additional capital through the sale of equity or convertible debt securities, existing ownership interests will be diluted, and the terms of these securities may include liquidation or other preferences that adversely affect the rights of common stockholders. Debt financing and preferred equity financing, if available, may involve agreements that include covenants limiting or restricting our ability to take specific actions, such as incurring additional debt, making acquisitions or capital expenditures, or declaring dividends. If we raise additional funds through collaborations, strategic alliances, or marketing, distribution, or licensing arrangements with third parties, we may have to relinquish valuable rights to our technologies, future revenue streams, research programs or drug candidates, or grant licenses on terms that may not be favorable to us. If we are unable to raise additional funds through equity or debt financings or other arrangements when needed, we may be required to delay, limit, reduce, or terminate our research, product development, or future commercialization efforts, or grant rights to develop and market drug candidates that we would otherwise prefer to develop and market ourselves.

Critical Accounting Policies and Significant Judgments and Estimates

Our consolidated financial statements are prepared in accordance with generally accepted accounting principles in the United States. The preparation of our consolidated financial statements and related disclosures requires us to make estimates, assumptions and judgments that affect the reported amount of assets, liabilities, revenue, costs and expenses, and related disclosures. We believe that of our critical accounting policies described under the heading “Management’s Discussion and Analysis of Financial Condition and Results of Operations—Critical Accounting Policies and Significant Judgments and Estimates” in our Annual Report on Form 10-K, the following involve the most judgment and complexity:

While our significant accounting policies are described in more detail in Note 2 to our consolidated financial statements included in this Annual Report on Form 10-K, we believe that the following accounting policies are those most critical to the judgments and estimates used in the preparation of our consolidated financial statements.

Accrued Research and Development Expenses

As part of the process of preparing our consolidated financial statements, we are required to estimate our accrued research and development expenses. This process involves reviewing open contracts and purchase orders, communicating with our applicable personnel to identify services that have been performed on our behalf, and estimating the level of service performed and the associated cost incurred for the service when we have not yet been invoiced or otherwise notified of actual costs. The majority of our service providers invoice us in arrears for services performed, on a pre-determined schedule or when contractual milestones are met; however, some require advance payments. We make estimates of our accrued expenses as of each balance sheet date in the consolidated financial statements based on facts and circumstances known to us at that time. We periodically

confirm the accuracy of the estimates with the service providers and make adjustments if necessary. Examples of estimated accrued research and development expenses include fees paid to:

- vendors in connection with the preclinical development activities;
- CMOs in connection with the production of preclinical and clinical trial materials;
- CROs in connection with preclinical studies and clinical trials; and
- investigative sites in connection with clinical trials.

We base our expenses related to preclinical studies and clinical trials on our estimates of the services received and efforts expended pursuant to quotes and contracts with multiple CMOs and CROs that supply, conduct, and manage preclinical studies and clinical trials on our behalf. The financial terms of these agreements are subject to negotiation, vary from contract to contract, and may result in uneven payment flows. There may be instances in which payments made to our vendors will exceed the level of services provided and result in a prepayment of the expense. In accruing service fees, we estimate the time period over which services will be performed and the level of effort to be expended in each period. If the actual timing of the performance of services or the level of effort varies from the estimate, we adjust the accrual or prepaid expense accordingly. Although we do not expect our estimates to be materially different from amounts actually incurred, our understanding of the status and timing of services performed relative to the actual status and timing of services performed may vary and may result in reporting amounts that are too high or too low in any particular period.

Asset Acquisitions

We measure and recognize asset acquisitions that are not deemed to be business combinations based on the cost to acquire the assets, which includes transaction costs. Goodwill is not recognized in asset acquisitions. In an asset acquisition, the cost allocated to acquire IPR&D with no alternative future use is charged to expense at the acquisition date.

Stock-Based Compensation

We measure stock options and other stock-based awards granted to employees, non-employees and directors based on their fair value on the date of the grant and recognize compensation expense of those awards over the requisite service period, which is generally the vesting period of the respective award. We apply the straight-line method of expense recognition to all awards with only service-based vesting conditions and apply the graded-vesting method to all awards with performance-based vesting conditions or to awards with both service-based and performance-based vesting conditions.

We estimate the fair value of our stock-based awards to employees and non-employees using the Black-Scholes option-pricing model, which requires the input of highly subjective assumptions, including (a) the expected volatility of our stock, (b) the expected term of the award, (c) the risk-free interest rate, and (d) expected dividends. Due to the lack of a sufficient history of public trading of our common stock and a lack of sufficient company-specific historical and implied volatility data, we have based our estimate of expected volatility on the historical volatility of a group of companies in the pharmaceutical and biotechnology industries in a similar stage of development as us and that are publicly traded. We will continue to apply this process until a sufficient amount of historical information regarding the volatility of our own stock price becomes available. We have estimated the expected term of our employee stock options using the "simplified" method, whereby, the expected term equals the average of the vesting term and the original contractual term of the option. The risk-free interest rates for periods within the expected life of the option are based on the U.S. Treasury yield curve in effect during the period the options were granted. The expected dividend yield of zero is based on the fact that the Company has never paid cash dividends and does not expect to pay any cash dividends in the foreseeable future. We account for forfeitures as they occur.

Off-Balance Sheet Arrangements

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

Recently Issued Accounting Pronouncements

A description of recently issued accounting pronouncements that may potentially impact our financial position and results of operations is disclosed in Note 2 to our consolidated financial statements appearing elsewhere in this Annual Report.

ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

We are a smaller reporting company, as defined in Rule 12b-2 of the Securities Exchange Act of 1934, as amended, for this reporting period and are not required to provide the information required under this item.

COGENT BIOSCIENCES, INC.
INDEX TO CONSOLIDATED FINANCIAL STATEMENTS

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Report of Independent Registered Public Accounting Firm

To the Board of Directors and Stockholders of Cogent Biosciences, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Cogent Biosciences, Inc. and its subsidiaries (the “Company”) as of December 31, 2021 and 2020, and the related consolidated statements of operations and comprehensive loss, of stockholders’ equity, and of cash flows for the years then ended, including the related notes (collectively referred to as the “consolidated financial statements”). In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2021 and 2020, 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.

Basis for Opinion

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

We conducted our audits of these consolidated financial statements in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the consolidated 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 consolidated 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 consolidated 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 consolidated financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/ PricewaterhouseCoopers LLP
Boston, Massachusetts
March 15, 2022

We have served as the Company’s auditor since 2015.

COGENT BIOSCIENCES, INC.
CONSOLIDATED BALANCE SHEETS
(In thousands, except share and per share amounts)

	December 31,	
	2021	2020
Assets		
Current assets:		
Cash and cash equivalents	\$ 219,684	\$ 242,190
Prepaid expenses and other current assets	2,949	2,722
Total current assets	222,633	244,912
Operating lease, right-of-use asset	2,771	4,615
Property and equipment, net	1,706	134
Restricted cash	1,255	1,255
Other assets	3,727	—
Total assets	\$ 232,092	\$ 250,916
Liabilities and Stockholders' Equity		
Current liabilities:		
Accounts payable	\$ 3,483	\$ 732
Accrued expenses and other current liabilities	8,210	4,779
CVR liability (Note 3)	3,060	5,531
Operating lease liability	2,324	2,052
Total current liabilities	17,077	13,094
Operating lease liability, net of current portion	831	3,155
Total liabilities	17,908	16,249
Commitments and contingencies (Note 11)		
Stockholders' equity:		
Preferred stock, \$0.001 par value; 9,000,000 shares authorized; no shares issued or outstanding	—	—
Series A non-voting convertible preferred stock, \$0.001 par value; 1,000,000 shares authorized; 103,289 and 132,244 shares issued and outstanding at December 31, 2021 and December 31, 2020, respectively	85,400	110,881
Common stock, \$0.001 par value; 150,000,000 shares authorized; 43,805,922 shares and 32,347,905 shares issued and outstanding at December 31, 2021 and December 31, 2020, respectively	44	32
Additional paid-in capital	399,713	322,454
Accumulated deficit	(270,973)	(198,700)
Total stockholders' equity	214,184	234,667
Total liabilities and stockholders' equity	\$ 232,092	\$ 250,916

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

COGENT BIOSCIENCES, INC.
CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE LOSS
(In thousands, except share and per share amounts)

	Year Ended December 31,	
	2021	2020
Collaboration revenue	\$ —	\$ 7,871
Operating expenses:		
Research and development	55,913	25,738
General and administrative	19,638	17,422
Acquired in-process research and development	—	46,910
Total operating expenses	75,551	90,070
Loss from operations	(75,551)	(82,199)
Other income (expense):		
Interest income	467	144
Gain on disposal of long-lived assets	—	7,493
Other income	2,468	779
Change in fair value of CVR liability	343	(1,025)
Total other income, net	3,278	7,391
Net loss and comprehensive loss	(72,273)	(74,808)
Net loss attributable to common shareholders	(72,273)	(179,208)
Net loss per share attributable to common stockholders, basic and diluted	\$ (1.87)	\$ (16.17)
Weighted average common shares outstanding, basic and diluted	38,730,813	11,081,257

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

COGENT BIOCEICNES, INC.
CONSOLIDATED STATEMENTS OF STOCKHOLDERS' EQUITY
(In thousands, except share amounts)

	Series A Non-Voting Convertible Preferred Stock		Common Stock		Additional Paid-in Capital	Accumulated Deficit	Total Stockholders' Equity
	Shares	Amount	Shares	Amount			
Balance at December 31, 2019	<u>—</u>	<u>—</u>	<u>7,665,763</u>	<u>\$ 8</u>	<u>\$ 155,646</u>	<u>\$ (123,892)</u>	<u>\$ 31,762</u>
Issuance of common stock upon exercise of stock options	—	—	384,125	—	512	—	512
Issuance of common stock under Employee Stock Purchase Plan	—	—	22,545	—	48	—	48
Issuance of common stock to LPC as a commitment fee	—	—	181,595	—	262	—	262
Issuance of common stock upon RSU vesting	—	—	56,933	—	—	—	—
Issuance of common stock to LPC	—	—	2,412,870	2	24,998	—	25,000
Issuance of common stock in underwritten public offering, net of issuance costs of \$7,271	—	—	11,794,872	12	107,718	—	107,730
Issuance of Series A non-voting preferred stock and common stock in connection with the Kiq acquisition	44,687	39,325	1,558,975	2	5,486	—	44,813
Issuance of Series A non-voting preferred stock, net of issuance costs of \$5,493	118,638	98,907	—	—	—	—	98,907
Issuance of common stock to settle CVR liability	—	—	707,938	1	6,943	—	6,944
Acquisition and retirement of treasury stock	—	—	(207,961)	—	(808)	—	(808)
Conversion of Series A non-voting preferred stock into common stock	(31,081)	(27,351)	7,770,250	7	27,344	—	—
Dividend payable to common stockholders	—	—	—	—	(11,450)	—	(11,450)
Discount on Series A non-voting preferred stock related to beneficial conversion feature	—	(104,400)	—	—	104,400	—	—
Recognition of beneficial conversion feature upon shareholder approval of conversion	—	104,400	—	—	(104,400)	—	—
Stock-based compensation expense	—	—	—	—	5,755	—	5,755
Net loss	—	—	—	—	—	(74,808)	(74,808)
Balances at December 31, 2020	<u>132,244</u>	<u>\$ 110,881</u>	<u>32,347,905</u>	<u>\$ 32</u>	<u>\$ 322,454</u>	<u>\$ (198,700)</u>	<u>\$ 234,667</u>
Conversion of Series A non-voting preferred stock into common stock	(28,955)	(25,481)	7,238,750	8	25,473	—	—
Issuance of common stock for services	—	—	31,683	—	260	—	260
Issuance of common stock upon exercise of stock options	—	—	15,758	—	24	—	24
Issuance of common stock under Employee Stock Purchase Plan	—	—	4,497	—	31	—	31
Issuance of common stock under ATM, net of issuance costs of \$1,229	—	—	3,954,900	4	38,002	—	38,006
Issuance of common stock to settle CVR liability	—	—	212,429	—	2,043	—	2,043
Stock-based compensation expense	—	—	—	—	11,426	—	11,426
Net loss	—	—	—	—	—	(72,273)	(72,273)
Balances at December 31, 2021	<u>103,289</u>	<u>\$ 85,400</u>	<u>43,805,922</u>	<u>\$ 44</u>	<u>\$ 399,713</u>	<u>\$ (270,973)</u>	<u>\$ 214,184</u>

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

COGENT BIOSCIENCES, INC.
CONSOLIDATED STATEMENTS OF CASH FLOWS
(In thousands)

	Year Ended December 31,	
	2021	2020
Cash flows from operating activities:		
Net loss	\$ (72,273)	\$ (74,808)
Adjustments to reconcile net loss to net cash used in operating activities:		
Depreciation and amortization expense	147	720
Stock-based compensation expense	11,686	6,017
Noncash consideration received from a customer	—	(808)
Noncash portion of acquired in-process research and development	—	44,813
Gain on disposal of long-lived assets	—	(7,493)
Change in fair value of CVR liability	(343)	1,025
Changes in operating assets and liabilities:		
Accounts receivable	—	2,000
Prepaid expenses and other current assets	(227)	(1,470)
Operating lease, right-of-use asset	1,844	670
Other assets	(3,727)	427
Accounts payable	2,751	(2,451)
Accrued expenses and other current liabilities	3,431	(2,352)
Operating lease liability	(2,052)	(825)
Deferred revenue	—	(1,315)
Net cash used in operating activities	<u>(58,763)</u>	<u>(35,850)</u>
Cash flows from investing activities:		
Purchases of property and equipment	(1,719)	—
Proceeds from sale of property and equipment	—	320
Proceeds from sale of BOXR Platform assets	—	8,100
Net cash (used in) provided by investing activities	<u>(1,719)</u>	<u>8,420</u>
Cash flows from financing activities:		
Proceeds from the issuance of Series A non-voting convertible preferred stock, net of issuance costs of \$5,493	—	98,907
Proceeds from issuance of common stock to LPC	—	25,000
Proceeds from issuance of common stock under ATM, net of issuance costs of \$1,229	38,006	—
Proceeds from issuance of common stock in underwritten public offering, net of offering costs of \$7,271	—	107,729
Proceeds from issuance of common stock upon stock option exercises	24	512
Proceeds from issuance of stock from employee stock purchase plan	31	48
Payments to CVR Holders	(85)	—
Net cash provided by financing activities	<u>37,976</u>	<u>232,196</u>
Net (decrease) increase in cash, cash equivalents and restricted cash	<u>(22,506)</u>	<u>204,766</u>
Cash, cash equivalents and restricted cash at beginning of period	243,445	38,679
Cash, cash equivalents and restricted cash at end of period	<u>\$ 220,939</u>	<u>\$ 243,445</u>
Supplemental disclosure of noncash investing and financing information:		
Conversion of Series A non-voting convertible preferred stock into common stock	25,481	\$ 27,351
Issuance of common shares in partial settlement of CVR liability	2,043	\$ 6,944

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

1. Nature of the Business and Basis of Presentation

Cogent Biosciences, Inc. (“Cogent” or the “Company”) is a biotechnology company focused on developing precision therapies for genetically defined diseases. Cogent’s approach is to design rational precision therapies that treat the underlying cause of disease and improve the lives of patients. Cogent’s most advanced program is bezuclastinib, also known as CGT9486, a highly selective tyrosine kinase inhibitor designed to potently inhibit the KIT D816V mutation as well as other mutations in KIT exon 17. In the vast majority of cases, KIT D816V is responsible for driving Systemic Mastocytosis (“SM”), a serious disease caused by unchecked proliferation of mast cells. Exon 17 mutations are also found in patients with advanced gastrointestinal stromal tumors (“GIST”), a type of cancer with strong dependence on oncogenic KIT signaling. Bezuclastinib is a highly selective and potent KIT inhibitor with the potential to provide a new treatment option for these patient populations. In addition to bezuclastinib, the Company’s research team is developing a portfolio of novel targeted therapies to help patients fighting serious, genetically driven diseases. The Company was incorporated in March 2014 under the laws of the State of Delaware. On October 2, 2020 the Company filed an amendment to its certificate of incorporation to change its name from Unum Therapeutics Inc. to Cogent Biosciences, Inc. The name change became effective on October 6, 2020. In connection with the name change, the Company’s common stock began trading under the ticker symbol “COGT” and the new CUSIP for the Company’s common stock is 19240Q 201.

On July 6, 2020, the Company completed its asset acquisition of Kiq Bio LLC (“Kiq”) (the “Kiq Acquisition”), in accordance with the terms of the Agreement and Plan of Merger (the “Merger Agreement”), signed and closed on July 6, 2020. Under the terms of the Merger Agreement, at the closing of the Merger, the Company issued the securityholders of Kiq 1,558,975 shares of common stock and 44,687 shares of Series A Preferred Stock.

On July 9, 2020, the Company completed a Private Investment in Public Equity (“PIPE”) of 118,638 Series A Non-Voting Convertible Preferred Stock to new and existing investors in exchange for gross proceeds of \$104.4 million, or net proceeds of \$98.9 million, after deducting commissions and offering costs.

On August 28, 2020, the Company sold its assets, rights and interests relating to its Bolt-on Chimeric Receptor (“BOXR”) technology and Autologous Cell Therapy Industrial Automation (“ACTIA”) technology (collectively, the “BOXR Platform”), to Sotio LLC (“Sotio”) (the “BOXR Platform Transaction”), pursuant to an asset purchase agreement by and among the Company, Sotio and Sotio NV as Guarantor (the “BOXR Platform Purchase Agreement”). Pursuant to the BOXR Platform Purchase Agreement, Sotio has agreed to pay the Company total cash consideration of up to \$11.5 million, consisting of an upfront payment of \$8.1 on the Closing Date and potential milestone payments of up to \$3.4 million in the aggregate upon the achievement of certain milestones related to the issuance of Specified Claims (as described in the BOXR Platform Purchase Agreement) by the U.S. Patent and Trademark Office and the European Patent Office. No amounts related to the potential future milestone payments to be received from Sotio have been recognized as of December 31, 2021.

On December 4, 2020, the Company completed an underwritten public offering of 11,794,872 shares of its common stock at a public offering price of \$9.75 per share. This included the exercise in full by the underwriters of their 30-day option to purchase up to 1,538,461 additional shares of common stock. The net proceeds from the offering were approximately \$107.7 million, after deducting the underwriting discounts and commissions of \$6.9 million and offering expenses of \$0.4 million.

On February 8, 2021, the Company filed a shelf registration statement on Form S-3 with the SEC. The shelf registration statement allows the Company to sell from time-to-time up to \$200.0 million of common stock, preferred stock, debt securities, warrants or units comprised of any combination of these securities, for its own account in one or more offerings. The terms of any offering under the shelf registration statement will be established at the time of such offering and will be described in a prospectus supplement filed with the SEC prior to the completion of any such offering.

Additionally, on February 8, 2021, pursuant to the Form S-3, the Company entered into a Sales Agreement (the “Sales Agreement”) with SVB Leerink LLC (“SVB Leerink”), pursuant to which the Company may issue and sell, from time to time, shares of its common stock having an aggregate offering price of up to \$75.0 million through SVB Leerink as the sales agent. As of December 31, 2021, the Company sold 3,954,900 shares of common stock under the Sales Agreement with offering prices ranging between \$9.25 and \$10.30 per share for net proceeds of approximately \$38.0 million.

The Company is subject to risks and uncertainties common to early-stage companies in the biotechnology industry, including, but not limited to, development by competitors of new technological innovations, dependence on key personnel, protection of proprietary technology, the impact of COVID-19, compliance with government regulations and the ability to

secure additional capital to fund operations. Product candidates currently under development will require significant additional research and development efforts, including extensive preclinical and clinical testing and regulatory approval prior to commercialization. These efforts require significant amounts of additional capital, adequate personnel and infrastructure and extensive compliance-reporting capabilities. Even if the Company's drug development efforts are successful, it is uncertain when, if ever, the Company will realize revenue from product sales.

The accompanying consolidated financial statements have been prepared on the basis of continuity of operations, realization of assets and the satisfaction of liabilities and commitments in the ordinary course of business. The Company has incurred recurring losses since inception, including a net loss of \$72.3 million for the year ended December 31, 2021. As of December 31, 2021, the Company had an accumulated deficit of \$271.0 million. The Company expects to continue to generate operating losses in the foreseeable future. As of the issuance date of the consolidated financial statements, the Company expects that its cash and cash equivalents will be sufficient to fund its operating expenses and capital expenditure requirements for at least the next 12 months from issuance of the consolidated financial statements.

The Company expects that it will continue to incur significant expenses in connection with its ongoing business activities. The Company will need to seek additional funding through equity offerings, debt financings, collaborations, licensing arrangements and other marketing and distribution arrangements, partnerships, joint ventures, combinations or divestitures of one or more of its assets or businesses. The Company may not be able to obtain financing on acceptable terms, or at all, and the Company may not be able to enter into collaborative arrangements or divest its assets. The terms of any financing may adversely affect the holdings or the rights of the Company's stockholders. Arrangements with collaborators or others may require the Company to relinquish rights to certain of its technologies or product candidates. If the Company is unable to obtain funding, the Company could be forced to delay, reduce or eliminate its research and development programs or commercialization efforts, which could adversely affect its business prospects, or the Company may be unable to continue operations.

The Company's consolidated financial statements have been prepared in conformity with accounting principles generally accepted in the United States of America ("GAAP").

2. Summary of Significant Accounting Policies

Principles of Consolidation

The accompanying consolidated financial statements include those of the Company and its wholly-owned subsidiaries, Mono, Inc. and Kiq Bio LLC. All intercompany balances and transactions have been eliminated.

Use of Estimates

The preparation of consolidated financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities, the disclosure of contingent assets and liabilities at the date of the consolidated financial statements and the reported amounts of revenue and expenses during the reporting periods. Significant estimates and assumptions reflected in these consolidated financial statements include, but are not limited to, the accrual of research and development expenses, the valuation of the CVR liability and the valuation of stock-based awards. The Company bases its estimates on historical experience, known trends and other market-specific or other relevant factors that it believes to be reasonable under the circumstances. On an ongoing basis, management evaluates its estimates, as there are changes in circumstances, facts and experience. Actual results may differ from those estimates or assumptions.

Risks and Uncertainties

Impact of the COVID-19 Coronavirus

The Company is subject to risks and uncertainties as a result of the COVID-19 pandemic. The impact of the pandemic has been and will likely continue to be extensive in many aspects of society, which has resulted in and will likely continue to result in significant disruptions to the global economy, as well as businesses and capital markets around the world.

The spread of COVID-19 has caused the Company to modify its business practices, including implementing a work-from-home policy for all employees who are able to perform their duties remotely and restricting all nonessential travel, and it expects to continue to take actions as may be required or recommended by government authorities or as the Company determines are in the best interests of its employees, the patients it serves and other business partners in light of COVID-19. Potential impacts to the Company's business include temporary closures of its facilities or those of its vendors, disruptions or restrictions on its employees' ability to travel, disruptions to or delays in ongoing laboratory experiments and operations, the potential diversion of healthcare resources away from the conduct of clinical trials to focus on pandemic concerns, and its ability to raise capital. As of December 31, 2021, there have been no material impacts to the Company. As the impact of COVID-19 continues to unfold, the Company will make continual assessments of the situation, as the extent to which the COVID-19 pandemic may materially impact the Company's financial condition, liquidity or results of operations in the future is uncertain.

Concentrations of Credit Risk and of Significant Suppliers

Financial instruments that potentially expose the Company to concentrations of credit risk consist primarily of cash and cash equivalents. Periodically, the Company maintains deposits in accredited financial institutions in excess of federally insured limits. The Company maintains most of its cash and cash equivalents at two accredited financial institutions. The Company has not experienced any losses on such accounts and does not believe that it is subject to unusual credit risk beyond the normal credit risk associated with commercial banking relationships. Such deposits have and will continue to exceed federally insured limits.

The Company is dependent on third-party vendors for its product candidates. In particular, the Company relies, and expects to continue to rely, on a small number of vendors to manufacture supplies and process its product candidates for its development programs. These programs could be adversely affected by a significant interruption in the manufacturing process.

Cash Equivalents

The Company considers all highly liquid investments with original maturities of three months or less at the date of purchase to be cash equivalents.

Restricted Cash

Restricted cash consists of security deposits in separate restricted bank accounts as required under the terms of the Company's lease agreement for its Corporate Office in Cambridge, Massachusetts.

Property and Equipment

Property and equipment are stated at cost less accumulated depreciation and amortization. Depreciation and amortization expense is recognized using the straight-line method over the estimated useful life of each asset as follows:

	<u>Estimated Useful Life</u>
Laboratory equipment	5 years
Computer equipment and software	3 years
Furniture and fixtures	5 years
Leasehold improvements	Shorter of life of lease or 10 years

Costs for capital assets not yet placed into service are capitalized as construction-in-progress and depreciated in accordance with the above guidelines once placed into service. Upon retirement or sale, the cost of assets disposed of and the related accumulated depreciation and amortization are removed from the accounts and any resulting gain or loss is included in loss from operations. Expenditures for repairs and maintenance are charged to expense as incurred.

Impairment of Long-Lived Assets

Long-lived assets consist of property and equipment. Long-lived assets to be held and used are tested for recoverability whenever events or changes in business circumstances indicate that the carrying amount of the assets may not be fully recoverable. Factors that the Company considers in deciding when to perform an impairment review include significant underperformance of the business in relation to expectations, significant negative industry or economic trends and significant changes or planned changes in the use of the assets. If an impairment review is performed to evaluate a long-lived asset group for recoverability, the Company compares forecasts of undiscounted cash flows expected to result from the use and eventual disposition of the long-lived asset group to its carrying value. An impairment loss would be recognized in loss from operations when estimated undiscounted future cash flows expected to result from the use of an asset group are less than its carrying amount. The impairment loss would be based on the excess of the carrying value of the impaired asset group over its fair value. The Company did not record any impairment losses on long-lived assets during the years ended December 31, 2021 or 2020.

Fair Value Measurements

Certain assets and liabilities are carried at fair value under GAAP. 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. Financial assets and liabilities carried at fair value are to be 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 and that are significant to determining the fair value of the assets or liabilities, including pricing models, discounted cash flow methodologies and similar techniques.

The Company's cash equivalents are carried at fair value, determined according to the fair value hierarchy described above (see Note 3). The carrying values of the Company's accounts payable and accrued expenses approximate their fair values due to the short-term nature of these liabilities.

Convertible Preferred Stock

The Company records shares of non-voting convertible preferred stock at their respective fair values on the dates of issuance, net of issuance costs. The Company applied the guidance in ASC 480-10-S99-3A, SEC Staff Announcement: Classification and Measurement of Redeemable Securities, and at issuance classified the Series A Preferred Stock outside of shareholders' equity (deficit) because, if conversion to common stock was not approved by the shareholders, the Series A Preferred Stock would be redeemable at the option of the holders for cash equal to the closing price of the common stock on last trading day prior to the holder's redemption request. On November 6, 2020, the shareholders approved the conversion of the Series A preferred stock into common stock and as such, since the Series A Preferred Stock was no longer redeemable at the option of the holders for cash, the Company reclassified the Series A Preferred Stock to permanent equity.

Segment Information

The Company manages its operations as a single segment for the purposes of assessing performance and making operating decisions. The Company's singular focus is the development and commercialization of precision therapies for genetically defined diseases. All of the Company's tangible assets are held in the United States.

Leases

The Company accounts for a contract as a lease when it has the right to control the asset for a period of time while obtaining substantially all of the assets' economic benefits. The Company determines the initial classification and measurement of its operating right-of-use assets and operating lease liabilities at the lease commencement date, and thereafter if modified. The lease term includes any renewal options that the Company is reasonably assured to exercise. The Company's policy is to not record leases with an original term of twelve months or less on its consolidated balance sheets. The Company's only existing lease is for office space.

The right-of-use asset represents the right to use the leased asset for the lease term. The lease liability represents the present value of the lease payments under the lease. The present value of lease payments is determined by using the interest rate implicit in the lease, if that rate is readily determinable; otherwise, the Company uses its estimated secured incremental borrowing rate for that lease term.

Lease payments included in the measurement of the lease liability consist of the following: the fixed noncancelable lease payments, payments for optional renewal periods where it is reasonably certain the renewal period will be exercised, and payments for early termination options unless it is reasonably certain the lease will not be terminated early.

Leases may contain rent escalation clauses and variable lease payments that require additional rental payments in later years of the term, including payments based on an index or inflation rate. Payments based on the change in an index or inflation rate, or payments based on a change in the Company's portion of the operating expenses, including real estate taxes and insurance, are not included in the initial lease liability and are recorded as a period expense when incurred. The operating leases may include an option to renew the lease term for various renewal periods and/or to terminate the leases early. These options to exercise the renewal or early termination clauses in the Company's operating leases were not reasonably certain of exercise as of the date of adoption and these have not been included in the determination of the initial lease liability or operating lease expense.

Rent expense for operating leases is recognized on a straight-line basis over the reasonably assured lease term based on the total lease payments and is included in operating expense in the consolidated statements of operations and comprehensive loss. For finance leases, any interest expense is recognized using the effective interest method and is included within interest expense. The Company has no financing leases.

Research and Development Costs

Research and development costs are expensed as incurred. Research and development expenses are comprised of costs incurred in performing research and development activities, including salaries, stock-based compensation and benefits, facilities costs and laboratory supplies, depreciation, manufacturing expenses and external costs of outside vendors engaged to conduct preclinical development activities and clinical trials as well as the cost of licensing technology.

Upfront payments and milestone payments made for the licensing of technology are expensed as research and development in the period in which they are incurred. Nonrefundable advance payments for goods or services to be received in the future for use in research and development activities are recorded as prepaid expenses. The prepaid amounts are expensed as the related goods are delivered or the services are performed.

Research Contract Costs and Accruals

The Company has entered into various research and development contracts with companies both inside and outside of the United States. These agreements are generally cancelable, and related payments are recorded as research and development expenses as incurred. The Company records accruals for estimated ongoing research costs. When evaluating the adequacy of the accrued liabilities, the Company analyzes progress of the studies or trials, including the phase or completion of events, invoices received and contracted costs. Significant judgments and estimates are made in determining the accrued balances at the end of any reporting period. Actual results could differ from the Company's estimates.

Business Combinations

In determining whether an acquisition should be accounted for as a business combination or asset acquisition, the Company first determines whether substantially all of the fair value of the gross assets acquired is concentrated in a single identifiable asset or a group of similar identifiable assets. If this is the case, the single identifiable asset or the group of similar assets is not deemed to be a business and is instead deemed to be an asset. If this is not the case, the Company then further evaluates whether the single identifiable asset or group of similar identifiable assets and activities includes, at a minimum, an input and a substantive process that together significantly contribute to the ability to create outputs. If so, the Company concludes that the single identifiable asset or group of similar identifiable assets and activities is a business.

The Company accounts for business combinations using the acquisition method of accounting. Application of this method of accounting requires that (i) identifiable assets acquired (including identifiable intangible assets) and liabilities assumed generally be measured and recognized at fair value as of the acquisition date and (ii) the excess of the purchase price over the net fair value of identifiable assets acquired and liabilities assumed be recognized as goodwill, which is not amortized for accounting purposes but is subject to testing for impairment at least annually. Acquired in-process research and development (IPR&D) is recognized at fair value and initially characterized as an indefinite-lived intangible asset, irrespective of whether the acquired IPR&D has an alternative future use. Transaction costs related to business combinations are expensed as incurred. Determining the fair value of assets acquired and liabilities assumed in a business combination requires management to use significant judgment and estimates, especially with respect to intangible assets.

During the measurement period, which extends no later than one year from the acquisition date, the Company may record certain adjustments to the carrying value of the assets acquired and liabilities assumed with the corresponding offset to goodwill. After the measurement period, all adjustments are recorded in the consolidated statements of operations as operating expenses or income.

To date, the Company has not recorded any acquisitions as a business combination.

Asset Acquisitions

The Company measures and recognizes asset acquisitions that are not deemed to be business combinations based on the cost to acquire the assets, which includes transaction costs. Goodwill is not recognized in asset acquisitions. In an asset acquisition, the cost allocated to acquire IPR&D with no alternative future use is charged to expense at the acquisition date.

Patent Costs

All patent-related costs incurred in connection with filing and prosecuting patent applications are expensed as incurred due to the uncertainty about the recovery of the expenditure. Amounts incurred are classified as general and administrative expenses.

Stock-Based Compensation

The Company measures stock options and other stock-based awards granted to employees, non-employees and directors based on their fair value on the date of the grant and recognizes compensation expense of those awards over the requisite service period, which is generally the vesting period of the respective award. The Company applies the straight-line method of expense recognition to all awards with only service-based vesting conditions and applies the graded-vesting method to all awards with performance-based vesting conditions or to awards with both service-based and performance-based vesting conditions.

For performance-based stock options, we begin to recognize expense when we determine that the achievement of such performance conditions is deemed probable. This determination requires significant judgment by management. At the probable date, we record a cumulative expense catch-up, with remaining expense amortized over the remaining service period.

The Company estimates the fair value of stock-based awards to employees and non-employees using the Black-Scholes option-pricing model, which requires the input of highly subjective assumptions, including (a) the expected volatility of its stock, (b) the expected term of the award, (c) the risk-free interest rate, and (d) expected dividends. Due to the lack of a sufficient history of public trading of the Company's common stock and a lack of sufficient company-specific historical and implied volatility data, the Company has based the estimate of expected volatility on the historical volatility of a group of companies in the pharmaceutical and biotechnology industries in a similar stage of development and that are publicly traded. The Company will continue to apply this process until a sufficient amount of historical information regarding the volatility of its own stock price becomes available. The Company has estimated the expected life of employee stock options using the "simplified" method, whereby, the expected life equals the average of the vesting term and the original contractual term of the option. The risk-free interest rates for periods within the expected life of the option are based on the U.S. Treasury yield curve in effect during the period the options were granted. The expected dividend yield of zero is based on the fact that the Company has never paid cash dividends and does not expect to pay any cash dividends in the foreseeable future. The Company accounts for forfeitures as they occur.

Comprehensive Loss

Comprehensive loss includes net loss as well as other changes in stockholders' equity that result from transactions and economic events other than those with stockholders. For the years ended December 31, 2021 and 2020, there were no elements of other comprehensive loss.

Net Income (Loss) per Share

Basic net income (loss) per common share attributable to common stockholders is computed by dividing the net income (loss) attributable to common stockholders by the weighted average number of shares of common stock outstanding for the period.

Diluted net income (loss) per common share attributable to common stockholders is computed by dividing net income (loss) attributable to common stockholders by the weighted average number of common shares outstanding for the period, including potential dilutive common shares assuming the dilutive effect of outstanding stock options. Accordingly, in periods in which the Company reported a net loss, dilutive common shares were not assumed to have been issued as their affect was anti-dilutive, and as a result, diluted net loss per common share was the same as basic net loss per common share.

Income Taxes

The Company accounts for income taxes using the asset and liability method, which requires the recognition of deferred tax assets and liabilities for the expected future tax consequences of events that have been recognized in the consolidated financial statements or in the Company's tax returns. Deferred tax assets and liabilities are determined on the basis of the differences between the financial statements and tax basis of assets and liabilities using enacted tax rates in effect for the year in which the differences are expected to reverse. Changes in deferred tax assets and liabilities are recorded in the provision for income taxes. The Company assesses the likelihood that its deferred tax assets will be recovered from future taxable income and, to the extent it believes, based upon the weight of available evidence, that it is more likely than not that all or a portion of the deferred tax assets will not be realized, a valuation allowance is established through a charge to income tax expense. Potential for recovery of deferred tax assets is evaluated by estimating the future taxable profits expected and considering prudent and feasible tax planning strategies.

The Company accounts for uncertainty in income taxes recognized in the consolidated 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 consolidated 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, or unrecognized tax benefits, that are considered appropriate as well as the related net interest and penalties.

Recently Adopted Accounting Pronouncements

In December 2019, the FASB issued ASU 2019-12 Simplifying the Accounting for Income Taxes, which eliminates the need for an organization to analyze whether the following apply in a given period: (1) exception to the incremental approach for intra-period tax allocation; (2) exceptions to accounting for basis differences when there are ownership changes in foreign investments; and (3) exceptions in interim period income tax accounting for year-to-date losses that exceed anticipated losses. The Company adopted ASU 2019-12 on January 1, 2021. The adoption of this guidance did not have a material impact on the Company's condensed consolidated financial statements.

Recently Issued Accounting Pronouncements

In August 2020, the FASB issued ASU 2020-06 Debt—Debt with Conversion and Other Options (Subtopic 470-20) and Derivatives and Hedging—Contracts in Entity's Own Equity (Subtopic 815-40) related to the measurement and disclosure requirements for convertible instruments and contracts in an entity's own equity. The pronouncement simplifies and adds disclosure requirements for the accounting and measurement of convertible instruments and the settlement assessment for contracts in an entity's own equity. This pronouncement is effective for fiscal years, and for interim periods within those fiscal years, beginning after December 15, 2021 and early adoption is permitted, but no earlier than fiscal years beginning after December 15, 2020, including interim periods within those fiscal years. The Company does not expect that this standard will have a material effect on its consolidated financial statements.

3. Fair Value Measurements of Financial Assets and Liabilities

The following tables present the Company's fair value hierarchy for its financial assets and liabilities, which are measured at fair value on a recurring basis (*in thousands*):

	Fair Value Measurements at December 31, 2021 Using:			
	Level 1	Level 2	Level 3	Total
Liabilities:				
CVR Liability	\$ —	\$ —	\$ 3,060	\$ 3,060
Total Liabilities	\$ —	\$ —	\$ 3,060	\$ 3,060

	Fair Value Measurements at December 31, 2020 Using:			
	Level 1	Level 2	Level 3	Total
Assets:				
Cash equivalents:				
Money market funds	\$ —	\$ 486	\$ —	\$ 486
Total Assets	\$ —	\$ 486	\$ —	\$ 486
Liabilities:				
CVR Liability	\$ —	\$ —	\$ 5,531	\$ 5,531
Total Liabilities	\$ —	\$ —	\$ 5,531	\$ 5,531

Money market funds were valued by the Company using quoted prices in active markets for similar securities, which represent a Level 2 measurement within the fair value hierarchy.

On July 6, 2020, the Company issued a non-transferrable CVR, which was distributed to stockholders of record as of the close of business on July 6, 2020, and prior to the issuance of any shares to acquire Kiq or sold to the PIPE investors. Holders of the CVR are entitled to receive common shares and/or cash payments from proceeds received by the Company, if any, related to the disposition of its legacy cell therapy assets for a period of three years from July 2020. In accordance with the terms of the CVR agreement, the payment to CVR holders will be made in shares or cash, depending on the timing of the receipt of the sales proceeds by the Company. For sales proceeds received by the Company prior to December 31, 2020, CVR holders were entitled to receive payment in the form of common shares of the Company. For sales proceeds received by the Company after December 31, 2020 and prior to July 2023, CVR holders are entitled to receive payment in cash.

The Company classifies the CVR as a liability on its consolidated balance sheet. The fair value of the CVR liability was determined using the probability weighted discounted cash flow method to estimate future cash flows associated with the sale of the legacy cell therapy assets, including the BOXR platform, ACTR platform and other fixed assets based on assumptions at the date of the CVR issuance and each subsequent quarterly period end, less certain permitted deductions. For sales proceeds received by the Company prior to December 31, 2020, the number of common shares to be received by CVR holders was determined by dividing the proceeds received by the Company by the closing price of the Company's common stock on July 6, 2020 of \$8.80. The closing price of the Company's common stock at each measurement date through February 2021 was used to determine the fair value of the share payments included in the CVR liability. The liability measured at the date of CVR issuance was recorded as a common stock dividend, returning capital to the legacy stockholders of record as of the close of business on July 6, 2020. Changes in fair value of the liability are recognized as a component of Other income (expense) in the consolidated statement of operations and comprehensive loss. The CVR liability was valued based on significant inputs not observable in the market, which represents a Level 3 measurement within the fair value hierarchy. On August 28, 2020, the Company sold the BOXR Platform and subsequently sold additional fixed assets, triggering a payment to CVR holders. In November 2020, the Company issued 707,938 CVR shares of common stock in partial settlement of the CVR liability. In February 2021, the Company issued an additional 212,429 shares of common stock and paid \$0.1 million in partial settlement of the CVR liability. Any settlement of the remaining CVR liability will be a cash settlement.

The following table sets forth a summary of the changes in the fair value of the Company's CVR liability (*in thousands*):

Balance at December 31, 2019	\$	—
Fair value at CVR issuance		11,450
Change in fair value		1,025
CVR settlement		(6,944)
Balance at December 31, 2020	\$	5,531
Fair value at CVR issuance		—
Change in fair value		(343)
CVR settlement		(2,128)
Balance at December 31, 2021	\$	3,060

During the years ended December 31, 2021 and 2020, there were no transfers between Level 1, Level 2 and Level 3.

4. Property and Equipment, Net

Property and equipment, net consisted of the following (*in thousands*):

	December 31,	
	2021	2020
Laboratory equipment	\$ 1,073	\$ —
Computer equipment and software	53	53
Furniture and fixtures	85	85
Leasehold improvements	408	408
Construction-in-progress	646	—
Total property and equipment	2,265	546
Accumulated depreciation and amortization	(559)	(412)
Property and equipment, net	<u>\$ 1,706</u>	<u>\$ 134</u>

Depreciation and amortization expense was \$0.1 million and \$0.7 million for the years ended December 31, 2021 and 2020, respectively.

5. Accrued Expenses and Other Current Liabilities

Accrued expenses and other current liabilities consisted of the following (*in thousands*):

	December 31,	
	2021	2020
Accrued employee compensation and benefits	3,389	\$ 1,443
Accrued external research and development expense	1,953	2,191
Accrued external manufacturing costs	1,556	161
Accrued professional and consulting services	1,077	677
Other	235	307
	<u>8,210</u>	<u>\$ 4,779</u>

6. Kiq LLC Acquisition

On July 6, 2020, the Company completed its asset acquisition of Kiq, in accordance with the terms of the Agreement and Plan of Merger (the Merger Agreement), signed and closed on July 6, 2020. Under the terms of the Merger Agreement, at the closing of the Merger, the Company issued the security holders of Kiq 1,558,975 shares of common stock and 44,687 shares of Series A Preferred Stock.

The Company concluded the arrangement did not result in the acquisition of a business, as substantially all of the fair value of the gross assets acquired was concentrated in a single identifiable asset, the exclusive license agreement with Plexxikon for bezuclastinib. In addition, the Company did not obtain any substantive processes or any employees in connection with the

acquisition and Kiq was not generating revenue at the time the Merger Agreement was executed. The Company determined that the cost to acquire the assets was \$46.9 million, based on the fair value of the consideration issued consisting of the 44,687 shares of Series A Preferred Stock and 1,558,975 shares of common stock valued at \$3.52 per share and direct costs of the acquisition of \$2.1 million. The acquisition cost was allocated entirely to acquired IPR&D as no other assets or liabilities were acquired. As the assets had not yet received regulatory approval in any territory, the cost attributable to the license agreement was expensed in the Company's consolidated statements of operations for the year ended December 31, 2020 as the acquired IPR&D had no alternative future use, as determined by Management in accordance with GAAP.

7. Sale of BOXR Assets

On August 28, 2020, the Company sold its assets, rights and interests relating to its BOXR Platform, to Sotio, pursuant to the BOXR Platform Purchase Agreement. Pursuant to the BOXR Platform Purchase Agreement, Sotio has agreed to pay the Company total cash consideration of up to \$11.5 million, consisting of an upfront payment of \$8.1 million and potential milestone payments of up to \$3.4 million in the aggregate upon the achievement of certain milestones related to the issuance of Specified Claims (as described in the BOXR Platform Purchase Agreement) by the U.S. Patent and Trademark Office and the European Patent Office.

Pursuant to ASC 205-20, Presentation of Financial Statements— Discontinued Operations, the BOXR platform did not meet the criteria of a discontinued operation as it was not considered a component of an entity that comprises operations and cash flows that can be clearly distinguished, operationally and for financial reporting purposes, from the rest of the Company, nor did it represent a strategic shift with a material effect on the Company's operations and financial results. The Company accounted for the sale of the BOXR Platform as the sale of a business and recognized a gain of \$7.4 million as a component of Other income (expense) on the Company's consolidated statements of operations and comprehensive loss. The amounts held in escrow of \$1.73 million were released and received by the Company on November 30, 2020. No amounts related to the potential future milestone payments have been recognized as of December 31, 2021.

8. Preferred Stock, Series A Non-Voting Convertible Preferred Stock and Common Stock

Preferred Stock

The Company's authorized capital stock consists of 150,000,000 shares of common stock, par value \$0.001 per share, and 10,000,000 shares of preferred stock, par value \$0.001 per share, 1,000,000 of which are designated as Series A Preferred Stock and 9,000,000 of which shares of preferred stock are undesignated.

Series A Non-Voting Convertible Preferred Stock

On July 6, 2020, the Company filed a Certificate of Designation of Preferences, Rights and Limitations of the Series A Non-Voting Convertible Preferred Stock ("Series A Preferred Stock") with the Secretary of State of the State of Delaware (the "Certificate of Designation") in connection with the Merger and the PIPE. The Certificate of Designation provides for the issuance of shares of Series A Preferred Stock, par value \$0.001 per share.

Holders of Series A Preferred Stock are entitled to receive dividends on shares of Series A 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 A Preferred Stock does not have voting rights. However, as long as any shares of Series A 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 A Preferred Stock, (a) alter or change adversely the powers, preferences or rights given to the Series A 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 A Preferred Stock, (d) increase the number of authorized shares of Series A Preferred Stock, (e) prior to the stockholder approval of the Conversion Proposal or at any time while at least 40% of the originally issued Series A Preferred Stock remains issued and outstanding, consummate a Fundamental Transaction (as defined in the Certificate of Designation) or (f) enter into any agreement with respect to any of the foregoing. The Series A Preferred Stock does not have a preference upon any liquidation, dissolution or winding-up of the Company.

Each share of Series A Preferred Stock is convertible at any time at the option of the holder thereof, into 250 shares of common stock, subject to certain limitations, including that a holder of Series A Preferred Stock is prohibited from converting shares of Series A Preferred Stock into shares of common stock if, as a result of such conversion, such holder, together with its affiliates, would beneficially own more than a specified percentage (to be established by the holder between 4.9% and 19.9%) of the total number of shares of common stock issued and outstanding immediately after giving effect to such conversion. Cumulatively, through December 31, 2021, 60,036 shares of Series A Preferred Stock, or 36.8% of the issued Series A Preferred Stock, have been converted into 15,009,000 shares of common stock. The 103,289 shares of Series A Preferred Stock outstanding as of December 31, 2021 are convertible into 25,822,250 shares of common stock.

The Company analyzed the conversion provision related to the Series A Preferred Stock and determined the PIPE holders received a contingent beneficial conversion feature (“BCF”) equal to \$104.4 million. This amount represents the difference between the Company’s closing stock price at the July 9, 2020 commitment date, \$12.04, and the \$3.52 conversion price, limited to the actual gross proceeds received of \$104.4 million. As the conversion provision was contingent on stockholder approval, the BCF was not recognized until the contingency was resolved. Upon obtaining stockholder approval for the conversion on November 6, 2020, the \$104.4 million BCF was recognized in additional paid-in capital and reflected as a deemed preferred stock dividend, increasing the net loss attributable to common stockholders and increasing basic net loss per share.

No other classes of preferred stock have been designated and no other preferred shares have been issued or are outstanding as of December 31, 2021.

Common Stock

Each share of common stock entitles the holder to one vote on all matters submitted to a vote of the Company’s stockholders. Common stockholders are not entitled to receive dividends, unless declared by the board of directors. In the event of the Company’s liquidation, dissolution or winding up, holders of the Company’s common stock will be entitled to share ratably in all assets remaining after payment of all debts and other liabilities and any liquidation preference of any outstanding preferred stock. The shares to be issued by us in this offering will be, when issued and paid for, validly issued, fully paid and non-assessable.

On September 22, 2020, the Company filed a registration statement on Form S-3 for the registration of (i) 1,558,975 shares of common stock issued in the acquisition of Kiq, (ii) 11,171,750 shares of common stock issuable upon the conversion of 44,687 shares of the Series A Preferred Stock issued in the acquisition of Kiq and (iii) 29,659,500 shares of common stock issuable upon the conversion of 118,638 shares of the Series A Preferred Stock issued in the PIPE, for a total of 42,390,225 shares of common stock.

On November 6, 2020 the Company effected a reverse stock split at a ratio of 1-for-4. All disclosures of common shares, per common share data and preferred stock conversion ratios in the accompanying consolidated financial statements and related notes have been adjusted to reflect the reverse stock split, but not any conversion of Series A Preferred Stock.

On December 4, 2020, the Company completed an underwritten public offering of 11,794,872 shares of its common stock at a public offering price of \$9.75 per share. This included the exercise in full by the underwriters of their 30-day option to purchase up to 1,538,461 additional shares of common stock. The net proceeds from the offering were approximately \$107.7 million, after deducting the underwriting discounts and commissions and offering expenses of \$7.3 million.

On February 8, 2021, the Company filed a shelf registration statement on Form S-3 with the SEC. The shelf registration statement allows the Company to sell from time-to-time up to \$200.0 million of common stock, preferred stock, debt securities, warrants or units comprised of any combination of these securities, for its own account in one or more offerings. The terms of any offering under the shelf registration statement will be established at the time of such offering and will be described in a prospectus supplement filed with the SEC prior to the completion of any such offering.

Additionally, on February 8, 2021, pursuant to the Form S-3, the Company entered into a Sales Agreement (the “Sales Agreement”) with SVB Leerink LLC (“SVB Leerink”), pursuant to which the Company may issue and sell, from time to time, shares of its common stock having an aggregate offering price of up to \$75.0 million through SVB Leerink as the sales agent. As of December 31, 2021, the Company sold 3,954,900 shares of common stock under the Sales Agreement with offering prices ranging between \$9.25 and \$10.30 per share for net proceeds of approximately \$38.0 million.

9. Stock-Based Compensation

2018 Stock Option and Incentive Plan

The Company’s 2018 Stock Option and Incentive Plan, (the “2018 Plan”), which became effective on March 27, 2018, provides for the grant of incentive stock options, nonqualified stock options, stock appreciation rights, restricted stock units, restricted stock awards, unrestricted stock awards, cash-based awards and dividend equivalent rights. The number of shares

initially reserved for issuance under the 2018 Plan was 700,180. Additionally, the shares of common stock that remained available for issuance under the previously outstanding 2015 Stock Incentive Plan (the “2015 Plan”) became available under the 2018 Plan. The number of shares reserved for the 2018 Plan automatically increases on each January 1 by 4% of the number of shares of the Company’s common stock outstanding on the immediately preceding December 31 or a lesser number of shares determined by the Company’s board of directors. The shares of common stock underlying any awards that are forfeited, canceled, held back upon exercise or settlement of an award to satisfy the exercise price or tax withholding, repurchased or are otherwise terminated by the Company under the 2018 Plan or the 2015 Plan will be added back to the shares of common stock available for issuance under the 2018 Plan. The number of authorized shares reserved for issuance under the 2018 Plan was increased by 1,752,237 shares effective as of January 1, 2022.

On June 16, 2021, at the Company’s 2021 annual stockholder meeting, the Company’s stockholders approved the amendment and restatement of the 2018 Stock Plan to increase the number of shares of common stock issuable under the 2018 Plan by 6,000,000 shares. Upon stockholder approval, in accordance with ASC 718- Compensation- Stock Compensation, a grant date was established for accounting purposes with respect to 3,402,768 options previously granted to employees and non-employee directors during the year ended December 31, 2021, which were subject to stockholder approval of the amendment and restatement of the 2018 Plan. As of December 31, 2021, 3,079,208 shares of common stock remain available for issuance under the 2018 Plan.

Inducement Plan

On October 22, 2020, the board of directors adopted the Cogent Biosciences, Inc. 2020 Inducement Plan (the “Inducement Plan”). The board of directors also adopted a form of non-qualified stock option agreement for use with the Inducement Plan. A total of 3,750,000 shares of common stock have been reserved for issuance under the Inducement Plan, subject to adjustment for stock dividends, stock splits, or other changes in Cogent’s common stock or capital structure. On November 5, 2020, the Company filed a Registration on Form S-8 related to the 3,750,000 shares of its common stock reserved for issuance under the Inducement Plan. The Company has granted 3,021,005 options under the Inducement Plan, of which 1,160,400 were granted during the year ended December 31, 2021. As of December 31, 2021, 728,995 shares of common stock remain available for issuance under the Inducement Plan.

2018 Employee Stock Purchase Plan

The Company’s 2018 Employee Stock Purchase Plan (the “ESPP”) became effective on March 28, 2018, at which time a total of 78,500 shares of common stock were reserved for issuance. In addition, the number of shares of common stock that may be issued under the ESPP automatically increases on each January 1 through January 1, 2027, by the least of (i) 125,000 shares of common stock, (ii) 1% of the number of shares of the Company’s common stock outstanding on the immediately preceding December 31 or (iii) such lesser number of shares as determined by the ESPP administrator. The number of authorized shares reserved for issuance under the ESPP was increased by 125,000 shares effective as of January 1, 2022. In July 2021, 4,497 shares were issued to employees under the ESPP. As of December 31, 2021, 336,919 shares remain available for issuance under the ESPP.

Stock Option Valuation

The following table presents, on a weighted average basis, the assumptions used in the Black-Scholes option-pricing model to determine the fair value of stock options granted to employees and directors:

	<u>Year Ended December 31,</u>	
	<u>2021</u>	<u>2020</u>
Risk-free interest rate	1.26%	0.64%
Expected volatility	75.30%	79.13%
Expected dividend yield	—	—
Expected life (in years)	6.21	6.23

Stock Option Activity

The following table summarizes the activity of our 2018 Stock Option and Incentive Plan and the Inducement Plan, excluding performance-based stock options:

	Number of Shares	Weighted Average Exercise Price	Weighted Average Contractual Term (in years)	Aggregate Intrinsic Value (in thousands)
Outstanding as of December 31, 2020	3,253,033	\$ 11.19		
Granted	5,967,582	8.98		
Exercised	(15,758)	1.53		
Forfeited	(411,231)	14.04		
Outstanding as of December 31, 2021	<u>8,793,626</u>	\$ 9.57	9.1	\$ 2,756
Vested and expected to vest as of December 31, 2021	<u>8,793,626</u>	\$ 9.57	9.1	\$ 2,756
Options exercisable as of December 31, 2021	<u>1,354,511</u>	\$ 9.50	8.7	\$ 1,689

The aggregate intrinsic value of stock options is calculated as the difference between the exercise price of the stock options and the fair value of the Company's common stock for those stock options that had strike prices lower than the fair value of the Company's common stock.

The aggregate intrinsic value of options exercised during the years ended December 31, 2021 and 2020 was \$0.1 million and \$2.3 million, respectively. The weighted average grant-date fair value of awards granted during the years ended December 31, 2021 and 2020 was \$5.93 per share and \$5.84 per share, respectively.

Employee Stock Purchase Plan

We estimate the fair value of shares to be issued under the 2018 Employee Stock Purchase Plan using the Black-Scholes option-pricing model on the date of grant, or first day of the offering period. The following table summarizes information pertaining to stock purchase rights granted under the employee stock purchase plan, during the years indicated:

	Year Ended December 31,	
	2021	2020
Risk-free interest rate	0.06%	1.56%
Expected volatility	66.85%	76.44%
Expected dividend yield	—	—
Expected life (in years)	0.50	0.50

Stock-Based Compensation

The following table summarizes stock-based compensation expense during the years ended December 31, 2021, in thousands:

	Year Ended December 31,	
	2021	2020
Stock-based compensation expense by type of award:		
Time-based stock options	\$ 11,361	\$ 5,042
Time-based restricted stock units	—	693
Employee stock purchase plan	65	20
Non-employee stock options	260	262
Total	<u>\$ 11,686</u>	<u>\$ 6,017</u>

The Company recorded stock-based compensation expense in the following expense categories of its consolidated statements of operations and comprehensive loss (in thousands):

	Year Ended December 31,	
	2021	2020
Research and development expenses	\$ 4,392	\$ 2,606
General and administrative expenses	7,294	3,411
Total	<u>\$ 11,686</u>	<u>\$ 6,017</u>

On April 8, 2020, the Company launched a tender offer to certain employee option holders, subject to specified conditions, to exchange some or all of their outstanding options to purchase shares of common stock, par value \$0.001 per share, for equivalent number of new options to purchase shares of the Company's common stock. Pursuant to the exchange offer, all eligible employees elected to exchange outstanding options, and the Company accepted for cancellation options to purchase an aggregate of 542,418 shares of the Company's common stock.

On May 7, 2020, immediately following the expiration of the exchange offer, the Company granted new options to purchase 542,418 shares of common stock, pursuant to the terms of the exchange offer and the Company's 2018 Plan. As a result, the exercise price was determined to be \$1.68, the fair value of the Company's closing stock price on the grant date. No other terms of the exchanged stock options were modified, and the stock options continued to vest according to their original vesting schedules and retained their original expiration dates. The Company accounted for the exchange offer as an option modification and as a result, recorded \$0.2 million in incremental stock-based compensation expense during the year ended December 31, 2020.

On July 6, 2020, all then outstanding stock options became fully vested in connection with the Kiq Acquisition, resulting in acceleration of stock compensation expense of \$2.9 million, which was recognized in the year ended December 31, 2020.

As of December 31, 2021, total unrecognized compensation cost related to the unvested stock-based options was \$42.4 million, which is expected to be recognized over a weighted average period of 3.12 years.

10. Income Taxes

Income Taxes

During the years ended December 31, 2021 and 2020, the Company recorded no current or deferred income tax benefits for the net operating losses or research and development tax credits generated in each year due to its uncertainty of realizing a benefit from those items. The Company had no foreign operations.

A reconciliation of the U.S. federal statutory income tax rate to the Company's effective income tax rate is as follows:

	Year Ended December 31,	
	2021	2020
Federal statutory income tax rate	(21.0)%	(21.0)%
State taxes, net of federal benefit	(2.9)	(1.7)
Federal and state research and development tax credits	(4.0)	(3.4)
Nondeductible stock compensation	1.4	0.5
IPR&D expense	-	12.3
IRC Section 382 limit on attributes	(0.1)	26.4
Other items	0.5	1.2
Increase in deferred tax asset valuation allowance	26.1	(14.3)
Effective income tax rate	<u>0.0%</u>	<u>0.0%</u>

Net deferred tax assets as of December 31, 2021 and 2020 consisted of the following (in thousands):

	December 31,	
	2021	2020
Deferred tax assets (liabilities):		
Net operating loss carryforwards	\$ 30,147	\$ 13,618
Research and development and investment tax credits	3,719	856
Accrued expenses	734	374
Capitalized start-up costs	63	76
Capitalized research and development expense	8,529	10,317
Operating lease right-of-use assets	(703)	(1,260)
Operating lease liabilities	800	1,421
Contingent consideration	862	928
Stock compensation	2,257	1,149
Other	279	320
Total deferred tax assets	46,687	27,799
Valuation allowance	(46,687)	(27,799)
Net deferred tax assets	\$ —	\$ —

As of December 31, 2021, the Company had U.S. federal and state net operating loss carryforwards of \$128.8 million and \$47.1 million, respectively, which may be available to offset future income tax liabilities and begin to expire in 2035. Of the federal net operating loss carryforwards at December 31, 2021, \$125.5 million is available to be carried forward indefinitely but can only offset 80% of taxable income per year. As of December 31, 2021, the Company also had U.S. federal and state research and development tax credit carryforwards of \$3.1 million and \$0.8 million, respectively, which may be available to offset future income tax liabilities and begin to expire in 2040 and 2035, respectively.

Utilization of the U.S. federal and state net operating loss carryforwards and research and development tax credit carryforwards may be subject to a substantial annual limitation under Section 382 of the Internal Revenue Code of 1986, and corresponding provisions of state law, due to ownership changes that have occurred previously or that could occur in the future. These ownership changes may limit the amount of carryforwards that can be utilized annually to offset future taxable income. In general, an ownership change, as defined by Section 382, results from transactions increasing the ownership of certain stockholders or public groups in the stock of a corporation by more than 50% over a three-year period.

As a result of the shares issued in July 2020 related to the acquisition of Kiq and the sale of Series A convertible preferred stock, the Company has experienced a change in ownership, as defined by Section 382. As a result of the ownership change, utilization of the federal and state net operating loss carryforwards and research and development tax credit carryforwards is subject to annual limitation under Section 382. Under Section 382, the annual limitation is determined by first multiplying the value of the Company's stock at the time of the ownership change by the applicable long-term tax-exempt rate, and then could be subject to additional adjustments, as required. This limitation resulted in the expiration of federal and state net operating loss carryforwards before utilization of \$26.9 million and \$79.5 million, respectively, and federal and state research and development tax credit carryforwards before utilization of \$6.6 million and \$2.0 million, respectively. We have written off these gross deferred tax attributes, which were previously fully reserved for, in 2020. As of December 31, 2021, approximately \$63.1 million and \$3.0 million of federal and state net operating losses, respectively, as well as \$10.6 million of future amortization for federal purposes were subject to the July 6 limitation of \$0.3 million per year. A second ownership change occurred in December 2020 as a result of the underwritten public offering of common stock which resulted in a limitation of tax attributes generated from July 7, 2020 to December 1, 2020. The December 1, 2020 ownership change is not expected to have a material impact to the Company's net operating loss carryforwards or research and development tax credit carryforwards as these net operating losses and tax credit carryforwards may be utilized, subject to annual limitation, assuming sufficient taxable income is generated before expiration.

The Company has evaluated the positive and negative evidence bearing upon its ability to realize the deferred tax assets. Management has considered the Company's history of cumulative net losses incurred since inception and its lack of commercialization of any products or generation of any revenue from product sales since inception and has concluded that it is more likely than not that the Company will not realize the benefits of the deferred tax assets. Accordingly, a full valuation allowance has been established against the deferred tax assets as of December 31, 2021 and 2020. Management reevaluates the positive and negative evidence at each reporting period.

Changes in the valuation allowance for deferred tax assets during the year ended December 31, 2021 related primarily to the operating losses occurring during the year. Changes in the valuation allowance for deferred tax assets during the year ended December 31, 2020 related primarily to the decrease in net operating loss carryforwards and research and development tax credit carryforwards as a result of the limitation under Section 382 and were as follows (in thousands):

	<u>Year Ended December 31,</u>	
	<u>2021</u>	<u>2020</u>
Valuation allowance as of beginning of year	\$ 27,799	\$ 38,487
Decreases recorded as benefit to income tax provision	—	(10,688)
Increases recorded to income tax provision	18,888	—
Valuation allowance as of end of year	<u>\$ 46,687</u>	<u>\$ 27,799</u>

As of December 31, 2021 and 2020, the Company had not recorded any amounts for unrecognized tax benefits. The Company files tax returns as prescribed by the tax laws of the jurisdictions in which it operates. In the normal course of business, the Company is subject to examination by federal and state jurisdictions, where applicable. The statute of limitations for assessment by the Internal Revenue Service and state tax authorities remains open for all years since 2018. The Company's tax attributes related to years prior to 2018 can still be adjusted under audit. No federal or state tax audits are currently in process.

11. Commitments and Contingencies

Operating Leases

Corporate Headquarters- Cambridge, MA

The Company leases office and laboratory space in Cambridge, MA for its corporate headquarters under a non-cancelable operating lease (the "Cambridge Lease") that expires in April 2023, with the Company's option to extend for an additional five-year term. The lessee has the right to terminate the lease in the event of the inability to use the space due to substantial damage while the lessor has the right to terminate the lease for tenant's default of lease financial obligations. Per the terms of the Cambridge Lease, the Company does not have any residual value guarantees. This extension has not been considered in the determination of the lease liability as the Company is not obligated to exercise its option and it is not reasonably certain that the option will be exercised. The lease payments include fixed lease payments that escalate over the term of the lease on an annual basis. The Cambridge Lease is a net lease, as the non-lease components (i.e. common area maintenance) are paid separately from rent based on actual costs incurred. Therefore, the non-lease component and related payments are not included in the right-of-use asset and liability and are reflected as an expense in the period incurred. The discount rate used in determining the lease liability represents the Company's incremental borrowing rate as the rate implicit in the lease could not be readily determined.

On August 28, 2020, the Company amended the lease (the "Cambridge Lease Amendment") resulting in increased annual rent payments. No other terms of the Cambridge Lease were changed. The Company determined that the lease modification did not grant an additional right of use and concluded that the modification was not a separate new lease, but rather that it should reassess and remeasure the right-of-use asset and lease liability on the effective date of the modification. The Company increased the right-of-use asset and operating lease liabilities by \$0.9 million, respectively.

Concurrent with the Cambridge Lease Amendment and the BOXR sale, the Company entered into a sublease (the "Cambridge Sublease Agreement") for a significant portion of the leased premises for the remaining term of the lease. Under the terms of the Cambridge Sublease Agreement, the sublessee leased approximately 70% of the facility and is responsible for the corresponding percentage of operating lease costs and variable lease costs. Variable lease costs include common area maintenance and other operating charges.

The elements of the lease expense, net of sublease income, were as follows (in thousands):

	Year Ended December 31, 2021	Year Ended December 31, 2020
Lease cost		
Operating lease cost	\$ 2,424	\$ 2,079
Variable lease cost (1)	825	890
Sublease income	(2,468)	(770)
Total lease cost	\$ 781	\$ 2,199
Other information		
Cash paid for amounts included in the measurement of lease liabilities	\$ 3,250	\$ 2,947
Remaining lease term	1.33	2.33
Discount rate	9.50%	9.50%

(1) The variable lease costs for the year ended December 31, 2021 include common area maintenance and other operating charges.

Future minimum lease payments under the operating lease as of December 31, 2021 are as follows (in thousands):

Year Ending December 31,	
2022	2,497
2023	841
Total future minimum lease payments	3,338
Less: imputed interest	183
Total operating lease liability	<u>\$ 3,155</u>
Included in the consolidated balance sheet:	
Current operating lease liability	2,324
Operating lease liability, net of current portion	831
Total operating lease liability	<u>\$ 3,155</u>

Under the terms of the Cambridge Lease, the Company issued a \$1.3 million letter of credit to the landlord as collateral for the leased facility. The underlying cash collateralizing this letter of credit has been classified as non-current restricted cash in the accompanying consolidated balance sheets. This is a refundable deposit and not a lease payment. Under the terms of the Cambridge Sublease Agreement, the sublessee obtained a letter of credit for \$1.3 million for the benefit of the Company. This has been excluded from the undiscounted cash flows above.

Boulder Lease

On July 6, 2021, the Company entered into a lease agreement (the "Boulder Lease") pursuant to which the Company leases approximately 38,075 square feet at 4840 Pearl East Circle, Boulder, Colorado, which will include office and laboratory space.

Boulder Lease payments will begin upon the earlier of (i) substantial completion of the Improvements or (ii) May 1, 2022. The Company will be entitled to 14 months of free rent, followed by an initial Boulder Lease term of 12 years. The Company also has the option to extend the Boulder Lease for three successive five-year terms. Upon the commencement of its obligation to pay rent, the Company will pay the landlord base rent at an initial rate of \$40.00 per square foot per year. Rent will be payable in equal monthly installments and subject to 2.5% annual increases over the term. Additionally, the Company is responsible for reimbursing the landlord for its share of the building's property taxes and operating expenses. In connection with the Boulder Lease, the Company provided a cash security deposit to the landlord in an amount of \$0.7 million which is recorded in Other Assets in the consolidated balance sheet as of December 31, 2021.

The Company expects to incur construction costs of \$8.0 million to \$10.0 million to build out the Boulder facility. The landlord will contribute an aggregate of approximately \$6.9 million toward the cost of landlord assets (the "Improvements"),

as well as an additional amount of up to approximately \$2.3 million in the form of a tenant improvement loan at an annual interest rate of 6%. Any monies borrowed under the tenant improvement loan are required to be repaid over the Boulder Lease term of 12 years.

The Company has determined this is a lease under ASC 842. The Company gained access to the leased space on August 14, 2021, to commence construction of the Improvements. As of December 31, 2021, the Company has determined that it does not have control of the space, as defined in ASC 842, during the construction period and as such, the accounting lease commencement date has not occurred for the Boulder Lease as of December 31, 2021. Therefore, the Company will not record a right-of-use asset or lease liability for the Boulder Lease until the accounting lease commencement date which is expected to be in 2022. The Company has determined the cost of Improvements during the construction period are lessor assets and considered a prepayment of lease under ASC 842. The Company has paid \$1.1 million towards the construction of lessor assets, which is included in Other Assets in the consolidated balance sheet as of December 31, 2021.

License Agreements

Plexxikon License Agreement

In July 2020, the Company obtained an exclusive, sublicensable, worldwide license (the "License Agreement") to certain patents and other intellectual property rights to research, develop and commercialize bezuclastinib. Under the terms of the License Agreement, the Company is required to pay Plexxikon Inc. ("Plexxikon") aggregate payments of up to \$7.5 million upon the satisfaction of certain clinical milestones, of which \$2.5 million may become payable in the next twelve months as a result of the progression of our on-going clinical studies, and up to \$25.0 million upon the satisfaction of certain regulatory milestones.

The Company is also required to pay Plexxikon tiered royalties ranging from a low-single digit percentage to a high-single digit percentage on annual net sales of products. These royalty obligations last on a product-by-product basis and country-by-country basis until the latest of (i) the date on which there is no validate claim of a licensed Plexxikon patent covering a subject product in such country or (ii) the 10th anniversary of the date of the first commercial sale of the product in such country. In addition, if the Company sublicenses the rights under the License Agreement, the Company is required to pay a certain percentage of the sublicense revenue to Plexxikon ranging from mid-double digit percentages to mid-single digit percentages, depending on whether the sublicense is entered into prior to or after certain clinical trial events.

The license agreement will expire on a country-by-country and licensed product-by-licensed product basis until the later of the last to expire of the patents covering such licensed products or services or the 10-year anniversary of the date of first commercial sale of the licensed product in such country. The Company may terminate the license agreement within 30 days after written notice in the event of a material breach. The Company may also terminate the agreement upon written notice in the event of the Company's bankruptcy, liquidation or insolvency. In addition, the Company has the right to terminate this agreement in its entirety at will upon 90 days' advance written notice to Plexxikon.

Indemnification Agreements

In the ordinary course of business, the Company may provide indemnification of varying scope and terms to vendors, lessors, business partners and other parties with respect to certain matters including, but not limited to, losses arising out of breach of such agreements or from intellectual property infringement claims made by third parties. In addition, the Company has entered into indemnification agreements with members of its board of directors and its executive officers that will require the Company, among other things, to indemnify them against certain liabilities that may arise by reason of their status or service as directors or officers. The maximum potential amount of future payments the Company could be required to make under these indemnification agreements is, in many cases, unlimited. To date, the Company has not incurred any material costs as a result of such indemnifications. The Company is not aware of any claims under indemnification arrangements that will have a material effect on its financial position, results of operations or cash flows, and it has not accrued any liabilities related to such obligations in its consolidated financial statements as of December 31, 2021 or 2020.

Legal Proceedings

The Company is not currently party to any material legal proceedings. At each reporting date, the Company evaluates whether or not a potential loss amount or a potential range of loss is probable and reasonably estimable under the provisions of the authoritative guidance that addresses accounting for contingencies. The Company expenses as incurred the costs related to such legal proceedings.

12. Net Loss per Share

Basic and diluted net loss per common share was calculated as follows (in thousands, except share and per share amounts)

	Year Ended December 31,	
	2021	2020
Numerator:		
Net loss	\$ (72,273)	\$ (74,808)
Deemed dividend to preferred stockholders	—	(104,400)
Net loss attributable to common stockholders	<u>\$ (72,273)</u>	<u>\$ (179,208)</u>
Denominator:		
Weighted average common shares outstanding, basic and diluted	38,730,813	11,081,257
Net loss per common share, basic and diluted	<u>\$ (1.87)</u>	<u>\$ (16.17)</u>

The Company's potential dilutive securities have been excluded from the computation of diluted net loss per share as the effect would be anti-dilutive and would result in a reduction to net loss per share. 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 above because including them would have had an anti-dilutive effect:

	December 31,	
	2021	2020
Stock options to purchase common stock	8,793,626	3,253,033
Series A Preferred Stock	25,822,250	33,061,000
	<u>34,615,876</u>	<u>36,314,033</u>

13. Retirement Plan

The Company has a defined-contribution plan under Section 401(k) of the Internal Revenue Code (the "401(k) Plan"). The 401(k) Plan covers all employees who meet defined minimum age and service requirements and allows participants to defer a portion of their annual compensation on a pre-tax basis. The 401(k) Plan allows for discretionary matching contributions of 100% of the first 4% of elective contributions, which vest immediately. Contributions under the plan were approximately \$0.4 million for the year ended December 31, 2021. The Company did not make any matching contributions during the year ended December 31, 2020.

ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None.

ITEM 9A. CONTROLS AND PROCEDURES

Evaluation of Disclosure Controls and Procedures

Our management, with the participation of our Chief Executive Officer and President and our Chief Financial Officer (our principal executive officer and principal financial officer, respectively), evaluated the effectiveness of our disclosure controls and procedures as of December 31, 2021. The term “disclosure controls and procedures,” as defined in Rules 13a-15(e) and 15d-15(e) under the Exchange Act means controls and other procedures of a company that are designed to ensure that information required to be disclosed by a company in the reports that it files or submits under the Exchange Act is recorded, processed, summarized and reported, within the time periods specified in the SEC’s rules and forms. Disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that information required to be disclosed by a company in the reports that it files or submits under the Exchange Act is accumulated and communicated to the company’s management, including its principal executive and principal financial officers, or persons performing similar functions, as appropriate to allow timely decisions regarding required disclosure.

Management recognizes that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving their objectives and management necessarily applies its judgment in evaluating the cost-benefit relationship of possible controls and procedures. Based on the evaluation of our disclosure controls and procedures as of December 31, 2021, our Chief Executive Officer and Chief Financial Officer concluded that, as of such date, our disclosure controls and procedures were effective at the reasonable assurance level.

Internal Control Over Financial Reporting

Management’s Report on Internal Control Over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting (as defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act). Our internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Our management assessed the effectiveness of Cogent’s internal control over financial reporting as of December 31, 2021. In making this assessment, it used the criteria established in Internal Control—Integrated Framework (2013) issued by the *Committee of Sponsoring Organizations of the Treadway Commission (COSO)*. Based on such assessment, our management has concluded that Cogent’s internal control over financial reporting was effective, as of December 31, 2021.

This Annual Report on Form 10-K does not include an attestation report of our independent registered public accounting firm regarding internal control over financial reporting due to an exemption established by the Jumpstart Our Business Startups Act of 2012 for “emerging growth companies.”

Changes in Internal Control Over Financial Reporting

No change in our internal control over financial reporting (as defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act) occurred during the three months ended December 31, 2021 that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

ITEM 9B. OTHER INFORMATION

None.

ITEM 9C. Disclosure Regarding Foreign Jurisdictions that Prevent Inspections

Not applicable.

PART III

ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

The information required by this Item 10 will be included in our definitive proxy statement to be filed with the SEC with respect to our 2022 Annual Meeting of Stockholders and is incorporated herein by reference.

ITEM 11. EXECUTIVE COMPENSATION

The information required by this Item 11 will be included in our definitive proxy statement to be filed with the SEC with respect to our 2022 Annual Meeting of Stockholders and is incorporated herein by reference.

ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

The information required by this Item 12 will be included in our definitive proxy statement to be filed with the SEC with respect to our 2022 Annual Meeting of Stockholders and is incorporated herein by reference.

ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS, AND DIRECTOR INDEPENDENCE

The information required by this Item 13 will be included in our definitive proxy statement to be filed with the SEC with respect to our 2022 Annual Meeting of Stockholders and is incorporated herein by reference.

ITEM 14. PRINCIPAL ACCOUNTING FEES AND SERVICES

The information required by this Item 14 will be included in our definitive proxy statement to be filed with the SEC with respect to our 2022 Annual Meeting of Stockholders and is incorporated herein by reference.

ITEM 15. EXHIBITS, FINANCIAL STATEMENT SCHEDULES**(a) 1. Financial Statements**

For a list of the financial statements included herein, see Index to the Financial Statements on page 64 of this Annual Report on Form 10-K, incorporated into this Item by reference.

2. Financial Statement Schedules

Financial statement schedules have been omitted because they are either not required or not applicable or the information is included in the financial statements or the notes thereto.

3. Exhibits

See the Exhibit Index in Item 15(b) below.

(b) Exhibit Index.

Exhibit Number	Description
2.1(1)	Agreement and Plan of Merger among the Registrant, Utah Merger Sub 1 LLC, Utah Merger Sub 2 LLC and KIQ LLC, dated as of July 6, 2020 (incorporated by reference to Exhibit 2.1 to the Registrant's Form 8-K (File No. 001-38443) filed on July 6, 2020)
3.1	Third Amended and Restated Certificate of Incorporation of the Registrant (incorporated by reference to Exhibit 3.2 to the Registrant's Registration Statement on Form S-1 (File No. 333-223414) filed on March 19, 2018)
3.2	Second Amended and Restated Bylaws of the Registrant (incorporated by reference to Exhibit 3.2 to the Registrant's Form 8-K (File No. 001-38443) filed on October 5, 2020)
3.3	Certificate of Amendment to the Third Amended and Restated Certificate of Incorporation of the Registrant (incorporated by reference to Exhibit 3.1 to the Registrant's on Form 8-K (File No. 001-38443) filed on October 5, 2020)
3.4	Certificate of Amendment to the Third Amended and Restated Certificate of Incorporation of the Registrant (incorporated by reference to Exhibit 3.1 to the Registrant's on Form 8-K (File No. 001-38443) filed on November 9, 2020)
3.5	Certificate of Designations of Preferences, Rights and Limitations of Series A Non-Voting Convertible Preferred Stock (incorporated by reference to Exhibit 3.1 to the Registrant's on Form 8-K (File No. 001-38443) filed on July 6, 2020)
4.1*	Description of the Registrant's Securities Registered Pursuant to Section 12 of the Securities Exchange Act of 1934
10.1*	Form of Director and Officer Indemnification Agreement
10.2#	Cogent Biosciences, Inc. Amended and Restated 2018 Stock Option and Incentive Plan and forms of award agreements thereunder (incorporated by reference to Exhibit 10.1 to the Registrant's Form 8-K (File No. 001-38443) filed on June 17, 2021)
10.3#	Cogent Biosciences, Inc. 2018 Employee Stock Purchase Plan (incorporated by reference to Exhibit 10.5 to the Registrant's Form 10-K (File No. 001-38443) filed on March 16, 2021)
10.4#*	Amended and Restated Cogent Biosciences, Inc. Non-Employee Director Compensation Policy
10.5	Purchase Agreement dated as of March 19, 2020 between the Registrant and Lincoln Park Capital Fund, LLC (incorporated by reference to Exhibit 10.1 to the Registrant's Form 8-K (File No. 001-38443) filed March 20, 2020)
10.6	Registration Rights Agreement dated as of March 19, 2020 between the Registrant and Lincoln Park Capital Fund, LLC (incorporated by reference to Exhibit 10.1 to the Registrant's Form 8-K (File No. 001-38443) filed March 20, 2020)

- 10.7(1) [Securities Purchase Agreement among the Registrant and the purchasers party thereto \(incorporated by reference to Exhibit 10.1 to the Registrant's on Form 8-K \(File No. 001-38443\) filed on July 6, 2020\)](#)
- 10.8 [Registration Rights Agreement between the Registrant and the purchasers party thereto \(incorporated by reference to Exhibit 10.2 to the Registrant's on Form 8-K \(File No. 001-38443\) filed on July 6, 2020\)](#)
- 10.9 [Contingent Value Rights Agreement dated as of August 6, 2020 among the Registrant, Computershare Inc. and Computershare Trust Company, N.A., \(incorporated by reference to Exhibit 10.1 to the Registrant's Form 8-K \(File No. 001-38443\) filed on August 10, 2020\)](#)
- 10.10 [License Agreement between KIQ LLC and Plexxikon Inc. dated as of May 27, 2020 \(incorporated by reference to Exhibit 10.6 to the Registrant's Form 10-Q/A \(File No. 001-38443\) filed on October 6, 2020\)](#)
- 10.11 [Asset Purchase Agreement dated as of August 28, 2020 among the Registrant, Sotio, LLC and Sotio N.V. \(incorporated by reference to Exhibit 10.5 to the Registrant's Form 10-Q \(File No. 001-38443\) filed on November 9, 2020\)](#)
- 10.12# [Employment Agreement dated as of October 23, 2020, between Cogent Biosciences, Inc. and Andrew Robbins \(incorporated by reference to Exhibit 10.3 to the Registrant's Form 10-Q \(File No. 001-38443\) filed on November 9, 2020\)](#)
- 10.13# [Separation Agreement dated as of October 22, 2020 between Cogent Biosciences, Inc. and Charles Wilson \(incorporated by reference to Exhibit 10.2 to the Registrant's Form 8-K \(File No. 001-38443\) filed on October 26, 2020\)](#)
- 10.14# [Cogent Biosciences, Inc. 2020 Inducement Plan and form of option award agreement thereunder \(incorporated by reference to Exhibit 10.1 to the Registrant's Form 8-K \(File No. 001-38443\) filed on October 26, 2020\)](#)
- 10.15# [Amended and Restated Employment Agreement entered into on December 24, 2021 by and between Cogent Biosciences, Inc. and John Green \(incorporated by reference to Exhibit 10.1 to the Registrant's Form 8-K \(File No. 001-38443\) filed on December 27, 2021\)](#)
- 10.16# [Amended and Restated Employment Agreement entered into on December 24, 2021 by and between Cogent Biosciences, Inc. and Jessica Sachs, MD \(incorporated by reference to Exhibit 10.1 to the Registrant's Form 8-K \(File No. 001-38443\) filed on December 27, 2021\)](#)
- 10.17 [Lease by and between Cogent Biosciences, Inc. and BCSP Pearl East Property LLC dated July 6, 2021 \(incorporated by reference to Exhibit 10.1 to the Registrant's Form 8-K \(File No. 001-38443\) filed on July 9, 2021\)](#)
- 21.1* [Subsidiaries of the Registrant](#)
- 23.1* [Consent of PricewaterhouseCoopers LLP, independent registered public accounting firm.](#)
- 31.1* [Certification of Chief Executive Officer of the Registrant Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.](#)
- 31.2* [Certification of Chief Financial Officer of the Registrant Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.](#)
- 32.1*† [Certification of Chief Executive Officer of the Registrant Pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.](#)
- 32.2*† [Certification of Chief Financial Officer of the Registrant Pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.](#)
- 101INS* Inline XBRL Instance Document.
- 101SCH* Inline XBRL Taxonomy Extension Schema Document.
- 101CAL* Inline XBRL Taxonomy Extension Calculation Linkbase Document.
- 101LAB* Inline XBRL Taxonomy Extension Labels Linkbase Document.
- 101PRE* Inline XBRL Taxonomy Extension Presentation Linkbase Document.
- 101DEF* Inline XBRL Taxonomy Extension Definition Linkbase Document.

* Filed herewith.

Indicates management contract or compensation plan.

- (1) Schedules and exhibits have been omitted from this filing pursuant to Item 601(b)(2) of Regulation S-K. The registrant agrees to furnish supplementally a copy of any omitted schedule or exhibit to the Securities and Exchange Commission upon its request; provided, however, that the registrant may request confidential treatment pursuant to Rule 24b-2 of the Securities Exchange Act of 1934, as amended, for any schedule or exhibit so furnished.
- † The certifications attached as Exhibits 32.1 and 32.2 that accompany this Annual Report on Form 10-K, are not deemed filed with the Securities and Exchange Commission and are not to be incorporated by reference into any filing of Cogent Biosciences, Inc. under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended, whether made before or after the date of this Annual Report on Form 10-K, irrespective of any general incorporation language contained in such filing.

ITEM 16. FORM 10-K SUMMARY

None.

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: March 15, 2022

COGENT BIOSCIENCES, INC.

By: /s/ Andrew Robbins

Andrew Robbins

Chief Executive Officer and President

Pursuant to the requirements of the Securities Act of 1934, this report has been signed by the following persons on behalf of the registrant and in the capacities indicated on March 15, 2022:

<u>Signature</u>	<u>Title(s)</u>
<u>/s/ Andrew Robbins</u> Andrew Robbins	Chief Executive Officer, President and Director (Principal Executive Officer)
<u>/s/ John Green</u> John Green	Chief Financial Officer (Principal Financial and Accounting Officer)
<u>/s/ Chris Cain</u> Chris Cain	Director
<u>/s/ Karen Ferrante</u> Karen Ferrante, M.D.	Director
<u>/s/ Peter Harwin</u> Peter Harwin	Director
<u>/s/ Arlene Morris</u> Arlene Morris	Director
<u>/s/ Matthew Ros</u> Matthew Ros	Director
<u>/s/ Todd Shegog</u> Todd Shegog	Director

**DESCRIPTION OF THE REGISTRANT'S SECURITIES REGISTERED PURSUANT TO
SECTION 12 OF THE SECURITIES EXCHANGE ACT OF 1934, AS AMENDED**

DESCRIPTION OF CAPITAL STOCK

General

The following is a summary of the material terms of our capital stock, as well as other material terms of certain provisions of the Delaware General Corporation Law, our third amended and restated certificate of incorporation (as amended from time to time, our "certificate of incorporation"), and our amended and restated bylaws ("bylaws"), both of which have been filed as exhibits to our Annual Report on Form 10-K of which this Exhibit 4.1 is a part, and are incorporated by reference herein. This summary does not purport to be complete and is qualified in its entirety by the provisions of our certificate of incorporation and our bylaws. We encourage you to read our certificate of incorporation, our bylaws, and the applicable provisions of the Delaware General Corporation Law for more information.

Our authorized capital stock consists of 150,000,000 shares of common stock, par value \$0.001 per share, and 10,000,000 shares of preferred stock, par value \$0.001 per share, 1,000,000 of which are designated as Series A Non-Voting Convertible Preferred Stock (the "Series A Preferred Stock") and 9,000,000 of which shares of preferred stock are undesignated.

Common Stock

The holders of our common stock are entitled to one vote for each share held on all matters submitted to a vote of the stockholders. The holders of our common stock do not have any cumulative voting rights. Holders of our common stock are entitled to receive ratably any dividends declared by our board of directors out of funds legally available for that purpose, subject to any preferential dividend rights of any outstanding preferred stock. Our common stock has no preemptive rights, conversion rights, or other subscription rights or redemption or sinking fund provisions.

In the event of our liquidation, dissolution, or winding up, holders of our common stock will be entitled to share ratably in all assets remaining after payment of all debts and other liabilities and any liquidation preference of any outstanding preferred stock. The shares to be issued by us in this offering will be, when issued and paid for, validly issued, fully paid and non-assessable.

All outstanding shares of common stock are validly issued, fully paid and nonassessable, and any issued shares of common stock will be validly issued, fully paid and nonassessable.

Series A Non-Voting Convertible Preferred Stock

Holders of Series A Non-Voting Convertible Preferred Stock are entitled to receive dividends on shares of Series A Non-Voting Convertible Preferred Stock equal to, 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 A Non-Voting Convertible Preferred Stock does not have voting rights. However, as long as any shares of Series A Non-Voting Convertible Preferred Stock are outstanding, we will not, without the affirmative vote of the holders of a majority of the then outstanding shares of the Series A Non-Voting Convertible Preferred Stock, (a) alter or change adversely the powers, preferences or rights given to the Series A Non-Voting Convertible Preferred Stock, (b) alter or amend its certificate of designation ("Certificate of Designations"), (c) amend its certificate of incorporation or other charter documents in any manner that adversely affects any rights of the holders of Series A Non-Voting Convertible Preferred Stock, (d) increase the number of authorized shares of Series A Non-Voting Convertible Preferred Stock, (e) prior to the stockholder approval of the Conversion Proposal (which stockholder approval has been received) or at any time while at least 40% of the originally issued Series A Non-Voting Convertible Preferred Stock remains issued and outstanding, consummate a Fundamental Transaction (as defined in the Certificate of Designation) or (f) enter into any agreement with respect to any of the foregoing. The Series A

Non-Voting Convertible Preferred Stock does not have a preference upon any liquidation, dissolution or winding-up of the Company, and are not be redeemable.

Each share of Series A Non-Voting Convertible Preferred Stock is convertible into shares of common stock at any time at the option of the holder thereof, into 250 shares of common stock, subject to certain limitations, including that a holder of Series A Non-Voting Convertible Preferred Stock is prohibited from converting shares of Series A Non-Voting Convertible Preferred Stock into shares of common stock if, as a result of such conversion, such holder, together with its affiliates, would beneficially own more than a specified percentage (as established by the holder between 4.9% and 19.9%) of the total number of shares of common stock issued and outstanding immediately after giving effect to such conversion.

As of December 31, 2021, 60,036 shares of Series A Preferred Stock have been converted to common stock and 103,289 shares of Series A Preferred Stock were issued and outstanding.

Preferred Stock

Our board of directors has the authority, without further action by our stockholders, to issue up to 9,000,000 additional shares of preferred stock in one or more series and to fix the rights, preferences, privileges and restrictions thereof. These rights, preferences and privileges could include dividend rights, conversion rights, voting rights, terms of redemption, liquidation preferences, sinking fund terms and the number of shares constituting, or the designation of, such series, any or all of which may be greater than the rights of common stock. The issuance of our preferred stock could adversely affect the voting power of holders of common stock and the likelihood that such holders will receive payments and payments upon our liquidation. In addition, the issuance of preferred stock could have the effect of delaying, deferring or preventing a change in control of our company or other corporate action. No shares of preferred stock are outstanding, and we have no present plan to issue any shares of preferred stock.

Certain Provisions of Delaware Law and Our Certificate of Incorporation and Bylaws

Anti-Takeover Effects of our Certificate of Incorporation and Bylaws and Delaware Law

Certain provisions of the Delaware General Corporation Law and of our certificate of incorporation and our by-laws could have the effect of delaying, deferring or discouraging another party from acquiring control of us. These provisions, which are summarized below, are expected to discourage certain types of coercive takeover practices and inadequate takeover bids and, as a consequence, they might also inhibit temporary fluctuations in the market price of our common stock that often result from actual or rumored hostile takeover attempts. These provisions are also designed in part to encourage anyone seeking to acquire control of us to first negotiate with our board of directors. These provisions might also have the effect of preventing changes in our management. It is possible that these provisions could make it more difficult to accomplish transactions that stockholders might otherwise deem to be in their best interests. However, we believe that the advantages gained by protecting our ability to negotiate with any unsolicited and potentially unfriendly acquirer outweigh the disadvantages of discouraging such proposals, including those priced above the then-current market value of our common stock, because, among other reasons, the negotiation of such proposals could improve their terms.

Section 203 of the Delaware General Corporation Law

We are subject to the 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 three-year period following the time that this stockholder becomes an interested stockholder, unless the business combination is approved in a prescribed manner. Under Section 203, a business combination between a corporation and an interested stockholder is prohibited unless it satisfies one of the following conditions:

- before the stockholder became interested, our board of directors approved either the business combination or the transaction which resulted in the stockholder becoming an interested stockholder;
- upon consummation of the transaction which resulted in the stockholder becoming an interested stockholder, the interested stockholder owned at least 85% of the voting stock of the corporation

outstanding at the time the transaction commenced, excluding for purposes of determining the voting stock outstanding, shares owned by persons who are directors and also officers, and employee stock plans, in some instances, but not the outstanding voting stock owned by the interested stockholder; or

- at or after the time the stockholder became interested, the business combination was approved by our board of directors and authorized at an annual or special meeting of the stockholders by the affirmative vote of at least two-thirds of the outstanding voting stock which is not owned by the interested stockholder.

Section 203 defines a business combination to include:

- any merger or consolidation involving the corporation and the interested stockholder;
- any sale, transfer, lease, pledge or other disposition involving the interested stockholder of 10% or more of the assets of the corporation;
- subject to exceptions, any transaction that results in the issuance or transfer by the corporation of any stock of the corporation to the interested stockholder;
- subject to exceptions, any transaction involving the corporation that has the effect of increasing the proportionate share of the stock of any class or series of the corporation beneficially owned by the interested stockholder; and
- the receipt by the interested stockholder of the benefit of any loans, advances, guarantees, pledges, or other financial benefits provided by or through the corporation.

In general, Section 203 defines an interested stockholder as any entity or person beneficially owning 15% or more of the outstanding voting stock of the corporation and any entity or person affiliated with or controlling or controlled by the entity or person.

Amended and Restated Certificate of Incorporation and Amended and Restated Bylaws

Provisions of our certificate of incorporation and our bylaws may delay or discourage transactions involving an actual or potential change in our control or change in our management, including transactions in which stockholders might otherwise receive a premium for their shares or transactions that our stockholders might otherwise deem to be in their best interests. Therefore, these provisions could adversely affect the price of our common stock. Among other things, our certificate of incorporation and our bylaws:

- permit our board of directors to issue up to an additional 9,000,000 shares of preferred stock, with any rights, preferences and privileges as they may designate;
- provide that the authorized number of directors may be changed only by resolution adopted by a majority of the board of directors;
- provide that the board of directors or any individual director may only be removed with cause and the affirmative vote of the holders of at least 66.67% of the voting power of all of our then outstanding common stock;
- divide our board of directors into three classes;
- the receipt by the interested stockholder of the benefit of any loans, advances, guarantees, pledges, or other financial benefits provided by or through the corporation.
- require that any action to be taken by our stockholders must be effected at a duly called annual or special meeting of stockholders and not be taken by written consent or electronic transmission;
- provide that stockholders seeking to present proposals before a meeting of stockholders or to nominate candidates for election as directors at a meeting of stockholders must provide notice in writing in a timely manner and also specify requirements as to the form and content of a stockholder's notice;

- do not provide for cumulative voting rights (therefore allowing the holders of a majority of the shares of common stock entitled to vote in any election of directors to elect all of the directors standing for election, if they should so choose);
- provide that special meetings of our stockholders may be called only by the chairperson of the board, our chief executive officer, or by the board of directors pursuant to a resolution adopted by a majority of the total number of authorized directors (whether or not there exists any vacancies); and
- provide that the Court of Chancery of the State of Delaware will be the sole and exclusive forum for (i) any derivative action or proceeding brought on our behalf, (ii) any action asserting a claim of breach of a fiduciary duty owed by any of our directors or officers to us or our stockholders, (iii) any action asserting a claim against us arising pursuant to any provision of the Delaware General Corporation Law or our certificate of incorporation or bylaws, or (iv) any action asserting a claim against us governed by the internal affairs doctrine.

The amendment of any of these provisions, with the exception of the ability of our board of directors to issue shares of preferred stock and designate any rights, preferences, and privileges thereto, would require the affirmative vote of the holders of at least 66.67% of the voting power of all of our then outstanding common stock.

Transfer Agent and Registrar

Computershare Trust Company, N.A. serves as the transfer agent and registrar for our common stock.

Listing

Our common stock is listed on the Nasdaq Global Select Market under the symbol "COGT."

INDEMNIFICATION AGREEMENT

This Indemnification Agreement (this “Agreement”) is entered into as of the date of the last signature below (the “Effective Date”) by and between Cogent Biosciences, Inc., a Delaware corporation (the “Company”), and [officer/director] (the “Indemnitee”).

RECITALS

WHEREAS, the Board of Directors of the Company (the “Board”) has determined that the inability to attract and retain qualified persons as directors and officers is detrimental to the best interests of the Company’s stockholders and that the Company should act to assure such persons that there shall be adequate certainty of protection through insurance and indemnification against risks of claims and actions against them arising out of their service to and activities on behalf of the Company;

WHEREAS, the Company has adopted provisions in its Second Amended and Restated By-Laws (the “Bylaws”) providing for indemnification and advancement of expenses of its directors and officers to the fullest extent authorized by the General Corporation Law of the State of Delaware (the “DGCL”), and the Company wishes to clarify and enhance the rights and obligations of the Company and the Indemnitee with respect to indemnification and advancement of expenses;

WHEREAS, in order to induce and encourage highly experienced and capable persons such as the Indemnitee to serve and continue to serve as directors and officers of the Company and in any other capacity with respect to the Company as the Company may request, and to otherwise promote the desirable end that such persons shall resist what they consider unjustified lawsuits and claims made against them in connection with the good faith performance of their duties to the Company, with the knowledge that certain costs, judgments, penalties, fines, liabilities, and expenses incurred by them in their defense of such litigation are to be borne by the Company and they shall receive appropriate protection against such risks and liabilities, the Board has determined that the following Agreement is reasonable and prudent to promote and ensure the best interests of the Company and its stockholders; and

WHEREAS, the Company desires to have the Indemnitee continue to serve as a director or officer of the Company and in any other capacity with respect to the Company as the Company may request, as the case may be, free from undue concern for unpredictable, inappropriate, or unreasonable legal risks and personal liabilities by reason of the Indemnitee acting in good faith in the performance of the Indemnitee’s duty to the Company; and the Indemnitee desires to continue so to serve the Company, provided, and on the express condition, that he or she is furnished with the protections set forth hereinafter.

AGREEMENT

NOW, THEREFORE, in consideration of the Indemnitee's continued service as a director or officer of the Company, the parties hereto agree as follows:

1. Definitions. For purposes of this Agreement:

(a) A "Change in Control" will be deemed to have occurred if, with respect to any particular 24-month period, the individuals who, at the beginning of such 24-month period, constituted the Board of Directors of the Company (the "Incumbent Board") cease for any reason to constitute at least a majority of the Board of Directors; provided, however, that any individual becoming a director subsequent to the beginning of such 24-month period whose election, or nomination for election by the stockholders of the Company, was approved by a vote of at least a majority of the directors then comprising the Incumbent Board shall be considered as though such individual were a member of the Incumbent Board, but excluding, for this purpose, any such individual whose initial assumption of office occurs as a result of an actual or threatened election contest with respect to the election or removal of directors or other actual or threatened solicitation of proxies or consents by or on behalf of a person other than the Board of Directors.

(b) "Disinterested Director" means a director of the Company who is not or was not a party to the Proceeding in respect of which indemnification is being sought by the Indemnitee.

(c) "Expenses" includes, without limitation, expenses incurred in connection with the defense or settlement of any action, suit, arbitration, alternative dispute resolution mechanism, investigation, inquiry, judicial, administrative, or legislative hearing, or any other threatened, pending, or completed proceeding, whether brought by or in the right of the Company or otherwise, including any and all appeals, whether of a civil, criminal, administrative, legislative, investigative, or other nature, attorneys' fees, witness fees and expenses, fees and expenses of accountants and other advisors, retainers and disbursements and advances thereon, the premium, security for, and other costs relating to any bond (including cost bonds, appraisal bonds, or their equivalents), and any expenses of establishing a right to indemnification or advancement under Sections 9, 11, 13, and 16 hereof, but shall not include the amount of judgments, fines, ERISA excise taxes, or penalties actually levied against the Indemnitee, or any amounts paid in settlement by or on behalf of the Indemnitee.

(d) "Independent Counsel" means a law firm or a member of a law firm that neither is presently nor in the past five years has been retained to represent (i) the Company or the Indemnitee in any matter material to either such party, or (ii) any other party to the Proceeding giving rise to a request for indemnification hereunder. Notwithstanding the foregoing, the term "Independent Counsel" shall not include any person who, under the applicable standards of professional conduct then prevailing, would have a conflict of interest in representing either the Company or the Indemnitee in an action to determine the Indemnitee's right to indemnification under this Agreement.

(e) "Proceeding" means any action, suit, arbitration, alternative dispute resolution mechanism, investigation, inquiry, judicial, administrative, or legislative hearing, or any

other threatened, pending, or completed proceeding, whether brought by or in the right of the Company or otherwise, including any and all appeals, whether of a civil, criminal, administrative, legislative, investigative, or other nature, to which the Indemnitee was or is a party or is threatened to be made a party or is otherwise involved in by reason of the fact that the Indemnitee is or was a director, officer, employee, agent, or trustee of the Company or while a director, officer, employee, agent, or trustee of the Company is or was serving at the request of the Company as a director, officer, employee, agent, or trustee of another corporation or of a partnership, joint venture, trust, or other enterprise, including service with respect to an employee benefit plan, or by reason of anything done or not done by the Indemnitee in any such capacity, whether or not the Indemnitee is serving in such capacity at the time any expense, liability, or loss is incurred for which indemnification or advancement can be provided under this Agreement.

2. Service by the Indemnitee. The Indemnitee shall serve and/or continue to serve as a director or officer of the Company faithfully and to the best of the Indemnitee's ability so long as the Indemnitee is duly elected or appointed and until such time as the Indemnitee's successor is elected and qualified or the Indemnitee is removed as permitted by applicable law or tenders a resignation in writing.

3. Indemnification and Advancement of Expenses. The Company shall indemnify and hold harmless the Indemnitee, and shall pay to the Indemnitee in advance of the final disposition of any Proceeding all Expenses incurred by the Indemnitee in defending any such Proceeding, to the fullest extent authorized by the DGCL, as the same exists or may hereafter be amended, all on the terms and conditions set forth in this Agreement. Without diminishing the scope of the rights provided by this Section, the rights of the Indemnitee to indemnification and advancement of Expenses provided hereunder shall include but shall not be limited to those rights hereinafter set forth, except that no indemnification or advancement of Expenses shall be paid to the Indemnitee:

(a) to the extent expressly prohibited by applicable law or the Certificate of Incorporation and Bylaws of the Company;

(b) for and to the extent that payment is actually made to the Indemnitee under a valid and collectible insurance policy or under a valid and enforceable indemnity clause, provision of the Certificate of Incorporation or Bylaws, or agreement of the Company or any other company or other enterprise (and the Indemnitee shall reimburse the Company for any amounts paid by the Company and subsequently so recovered by the Indemnitee);

(c) in connection with an action, suit, or proceeding, or part thereof voluntarily initiated by the Indemnitee (including claims and counterclaims, whether such counterclaims are asserted by (i) the Indemnitee, or (ii) the Company in an action, suit, or proceeding initiated by the Indemnitee), except a judicial proceeding or arbitration pursuant to Section 11 to enforce rights under this Agreement, unless the action, suit, or proceeding, or part thereof, was authorized or ratified by the Board or the Board otherwise determines that indemnification or advancement of Expenses is appropriate; or

(d) with respect to any Proceeding brought by or in the right of the Company against the Indemnitee that is authorized by the Board, except as provided in Sections 5, 6, and 7 below.

4. Action or Proceedings Other than an Action by or in the Right of the Company. Except as limited by Section 3 above, the Indemnitee shall be entitled to the indemnification rights provided in this Section if the Indemnitee was or is a party or is threatened to be made a party to, or was or is otherwise involved in, any Proceeding (other than an action by or in the right of the Company) by reason of the fact that the Indemnitee is or was a director, officer, employee, agent, or trustee of the Company or while a director, officer, employee, agent, or trustee of the Company is or was serving at the request of the Company as a director, officer, employee, agent, or trustee of another corporation or of a partnership, joint venture, trust, or other enterprise, including service with respect to an employee benefit plan, or by reason of anything done or not done by the Indemnitee in any such capacity. Pursuant to this Section, the Indemnitee shall be indemnified against all expense, liability, and loss (including judgments, fines, ERISA excise taxes, penalties, amounts paid in settlement by or on behalf of the Indemnitee, and Expenses) actually and reasonably incurred by the Indemnitee in connection with such Proceeding, if the Indemnitee acted in good faith and in a manner the Indemnitee reasonably believed to be in or not opposed to the best interests of the Company, and with respect to any criminal Proceeding, had no reasonable cause to believe his or her conduct was unlawful.

5. Indemnity in Proceedings by or in the Right of the Company. Except as limited by Section 3 above, the Indemnitee shall be entitled to the indemnification rights provided in this Section if the Indemnitee was or is a party or is threatened to be made a party to, or was or is otherwise involved in, any Proceeding brought by or in the right of the Company to procure a judgment in its favor by reason of the fact that the Indemnitee is or was a director, officer, employee, agent, or trustee of the Company or while a director, officer, employee, agent, or trustee of the Company is or was serving at the request of the Company as a director, officer, employee, agent, or trustee of another corporation or of a partnership, joint venture, trust, or other enterprise, including service with respect to an employee benefit plan, or by reason of anything done or not done by the Indemnitee in any such capacity. Pursuant to this Section, the Indemnitee shall be indemnified against all Expenses actually and reasonably incurred by the Indemnitee in connection with such Proceeding if the Indemnitee acted in good faith and in a manner the Indemnitee reasonably believed to be in or not opposed to the best interests of the Company; provided, however, that no such indemnification shall be made in respect of any claim, issue, or matter as to which the DGCL expressly prohibits such indemnification by reason of any adjudication of liability of the Indemnitee to the Company, unless and only to the extent that the Court of Chancery of the State of Delaware or the court in which such Proceeding was brought shall determine upon application that, despite the adjudication of liability but in view of all the circumstances of the case, the Indemnitee is entitled to indemnification for such expense, liability, and loss as such court shall deem proper.

6. Indemnification for Costs, Charges, and Expenses of Successful Party. Notwithstanding any limitations of Sections 3(c), 3(d), 4, and 5 above, to the extent that the Indemnitee has been successful, on the merits or otherwise, in whole or in part, in defense of any Proceeding, or in defense of any claim, issue, or matter therein, including, without limitation, the dismissal of any action without prejudice, or if it is ultimately determined, by final judicial decision

of a court of competent jurisdiction from which there is no further right to appeal, that the Indemnitee is otherwise entitled to be indemnified against Expenses, the Indemnitee shall be indemnified against all Expenses actually and reasonably incurred by the Indemnitee in connection therewith.

7. Partial Indemnification. If the Indemnitee is entitled under any provision of this Agreement to indemnification by the Company for some or a portion of the expense, liability, and loss (including judgments, fines, ERISA excise taxes, penalties, amounts paid in settlement by or on behalf of the Indemnitee, and Expenses) actually and reasonably incurred in connection with any Proceeding, or in connection with any judicial proceeding or arbitration pursuant to Section 11 to enforce rights under this Agreement, but not, however, for all of the total amount thereof, the Company shall nevertheless indemnify the Indemnitee for the portion of such expense, liability, and loss actually and reasonably incurred to which the Indemnitee is entitled.

8. Indemnification for Expenses of a Witness. Notwithstanding any other provision of this Agreement, to the maximum extent permitted by the DGCL, the Indemnitee shall be entitled to indemnification against all Expenses actually and reasonably incurred by the Indemnitee or on the Indemnitee's behalf if the Indemnitee appears as a witness or otherwise incurs legal expenses as a result of or related to the Indemnitee's service as a director or officer of the Company, in any threatened, pending, or completed action, suit, arbitration, alternative dispute resolution mechanism, investigation, inquiry, judicial, administrative, or legislative hearing, or any other threatened, pending, or completed proceeding, whether of a civil, criminal, administrative, legislative, investigative, or other nature, to which the Indemnitee neither is, nor is threatened to be made, a party.

9. Determination of Entitlement to Indemnification. To receive indemnification under this Agreement, the Indemnitee shall submit a written request to the Chief Legal Officer of the Company. Such request shall include documentation or information that is necessary for such determination and is reasonably available to the Indemnitee. Upon receipt by the Chief Legal Officer of the Company of a written request by the Indemnitee for indemnification, the entitlement of the Indemnitee to indemnification, to the extent not required pursuant to the terms of Section 6 or Section 8 of this Agreement, shall be determined by the following person or persons who shall be empowered to make such determination (as selected by the Board, except with respect to Section 9(e) below): (a) the Board by a majority vote of Disinterested Directors, whether or not such majority constitutes a quorum; (b) a committee of Disinterested Directors designated by a majority vote of such directors, whether or not such majority constitutes a quorum; (c) if there are no Disinterested Directors, or if the Disinterested Directors so direct, by Independent Counsel in a written opinion to the Board, a copy of which shall be delivered to the Indemnitee; (d) the stockholders of the Company; or (e) in the event that a Change in Control has occurred, by Independent Counsel in a written opinion to the Board, a copy of which shall be delivered to the Indemnitee. Such Independent Counsel shall be selected by the Board and approved by the Indemnitee, except that in the event that a Change in Control has occurred, Independent Counsel shall be selected by the Indemnitee. Upon failure of the Board so to select such Independent Counsel or upon failure of the Indemnitee so to approve (or so to select, in the event a Change in Control has occurred), such Independent Counsel shall be selected upon application to a court of competent jurisdiction. The determination of entitlement to indemnification shall be made and, unless a contrary determination is made, such indemnification shall be paid in full by the Company

not later than 60 calendar days after receipt by the Chief Legal Officer of the Company of a written request for indemnification. If the person making such determination shall determine that the Indemnitee is entitled to indemnification as to part (but not all) of the application for indemnification, such person shall reasonably prorate such partial indemnification among the claims, issues, or matters at issue at the time of the determination.

10. Presumptions and Effect of Certain Proceedings. The Chief Legal Officer of the Company shall, promptly upon receipt of the Indemnitee's written request for indemnification, advise in writing the Board or such other person or persons empowered to make the determination as provided in Section 9 that the Indemnitee has made such request for indemnification. Upon making such request for indemnification, the Indemnitee shall be presumed to be entitled to indemnification hereunder and the Company shall have the burden of proof in making any determination contrary to such presumption. If the person or persons so empowered to make such determination shall have failed to make the requested determination with respect to indemnification within 60 calendar days after receipt by the Chief Legal Officer of the Company of such request, a requisite determination of entitlement to indemnification shall be deemed to have been made and the Indemnitee shall be absolutely entitled to such indemnification, absent actual fraud in the request for indemnification. The termination of any Proceeding described in Sections 4 or 5 by judgment, order, settlement, or conviction, or upon a plea of *nolo contendere* or its equivalent, shall not, of itself (a) create a presumption that the Indemnitee did not act in good faith and in a manner the Indemnitee reasonably believed to be in or not opposed to the best interests of the Company, and with respect to any criminal Proceeding, had reasonable cause to believe his or her conduct was unlawful, or (b) otherwise adversely affect the rights of the Indemnitee to indemnification except as may be provided herein.

11. Remedies of the Indemnitee in Cases of Determination Not to Indemnify or to Advance Expenses; Right to Bring Suit. In the event that a determination is made that the Indemnitee is not entitled to indemnification hereunder or if payment is not timely made following a determination of entitlement to indemnification pursuant to Sections 9 and 10, or if an advancement of Expenses is not timely made pursuant to Section 16, the Indemnitee may at any time thereafter bring suit against the Company seeking an adjudication of entitlement to such indemnification or advancement of Expenses, and any such suit shall be brought in the Court of Chancery of the State of Delaware. Alternatively, the Indemnitee at the Indemnitee's option may seek an award in an arbitration to be conducted by a single arbitrator in the State of Delaware pursuant to the rules of the American Arbitration Association, such award to be made within 60 calendar days following the filing of the demand for arbitration. The Company shall not oppose the Indemnitee's right to seek any such adjudication or award in arbitration. In any suit or arbitration brought by the Indemnitee to enforce a right to indemnification hereunder (but not in a suit or arbitration brought by the Indemnitee to enforce a right to an advancement of Expenses), it shall be a defense that the Indemnitee has not met any applicable standard of conduct for indemnification set forth in the DGCL, including the standard described in Section 4 or 5, as applicable. Further, in any suit brought by the Company to recover an advancement of Expenses pursuant to the terms of an undertaking, the Company shall be entitled to recover such Expenses upon a final judicial decision of a court of competent jurisdiction from which there is no further right to appeal that the Indemnitee has not met the standard of conduct described above. Neither the failure of the Company (including the Disinterested Directors, a committee of Disinterested Directors, Independent Counsel, or its stockholders) to have made a determination prior to the

commencement of such suit or arbitration that indemnification of the Indemnitee is proper in the circumstances because the Indemnitee has met the standard of conduct described above, nor an actual determination by the Company (including the Disinterested Directors, a committee of Disinterested Directors, Independent Counsel, or its stockholders) that the Indemnitee has not met the standard of conduct described above shall create a presumption that the Indemnitee has not met the standard of conduct described above, or, in the case of such a suit brought by the Indemnitee, be a defense to such suit. In any suit brought by the Indemnitee to enforce a right to indemnification or to an advancement of Expenses hereunder, or brought by the Company to recover an advancement of Expenses pursuant to the terms of an undertaking, the burden of proving that the Indemnitee is not entitled to be indemnified, or to such advancement of Expenses, under this Section 11 or otherwise shall be on the Company. If a determination is made or deemed to have been made pursuant to the terms of Section 9 or 10 that the Indemnitee is entitled to indemnification, the Company shall be bound by such determination and is precluded from asserting that such determination has not been made or that the procedure by which such determination was made is not valid, binding, and enforceable. The Company further agrees to stipulate in any court or before any arbitrator pursuant to this Section 11 that the Company is bound by all the provisions of this Agreement and is precluded from making any assertions to the contrary. If the court or arbitrator shall determine that the Indemnitee is entitled to any indemnification or advancement of Expenses hereunder, the Company shall pay all Expenses actually and reasonably incurred by the Indemnitee in connection with such adjudication or award in arbitration (including, but not limited to, any appellate proceedings) to the fullest extent permitted by law, and in any suit brought by the Company to recover an advancement of Expenses pursuant to the terms of an undertaking, the Company shall pay all Expenses actually and reasonably incurred by the Indemnitee in connection with such suit to the extent the Indemnitee has been successful, on the merits or otherwise, in whole or in part, in defense of such suit, to the fullest extent permitted by law.

12. Non-Exclusivity of Rights. The rights to indemnification and to the advancement of Expenses provided by this Agreement shall not be deemed exclusive of any other right that the Indemnitee may now or hereafter acquire under any applicable law, agreement, vote of stockholders or Disinterested Directors, provisions of a charter or bylaws (including the Certificate of Incorporation or Bylaws of the Company), or otherwise.

13. Expenses to Enforce Agreement. In the event that the Indemnitee is subject to or intervenes in any action, suit, or proceeding in which the validity or enforceability of this Agreement is at issue or seeks an adjudication or award in arbitration to enforce the Indemnitee's rights under, or to recover damages for breach of, this Agreement, the Indemnitee, if the Indemnitee prevails in whole or in part in such action, suit, or proceeding, shall be entitled to recover from the Company and shall be indemnified by the Company against any Expenses actually and reasonably incurred by the Indemnitee in connection therewith.

14. Continuation of Indemnity. All agreements and obligations of the Company contained herein shall continue during the period the Indemnitee is a director, officer, employee, agent, or trustee of the Company or while a director, officer, employee, agent, or trustee is serving at the request of the Company as a director, officer, employee, agent, or trustee of another corporation or of a partnership, joint venture, trust, or other enterprise, including service with respect to an employee benefit plan, and shall continue thereafter with respect to any possible

claims based on the fact that the Indemnitee was a director, officer, employee, agent, or trustee of the Company or was serving at the request of the Company as a director, officer, employee, agent, or trustee of another corporation or of a partnership, joint venture, trust, or other enterprise, including service with respect to an employee benefit plan. This Agreement shall be binding upon all successors and assigns of the Company (including any transferee of all or substantially all of its assets and any successor by merger or operation of law) and shall inure to the benefit of the Indemnitee's heirs, executors, and administrators.

15. Notification and Defense of Proceeding. Promptly after receipt by the Indemnitee of notice of any Proceeding, the Indemnitee shall, if a request for indemnification or an advancement of Expenses in respect thereof is to be made against the Company under this Agreement, notify the Company in writing of the commencement thereof; but the omission so to notify the Company shall not relieve it from any liability that it may have to the Indemnitee. Notwithstanding any other provision of this Agreement, with respect to any such Proceeding of which the Indemnitee notifies the Company:

(a) The Company shall be entitled to participate therein at its own expense;

(b) Except as otherwise provided in this Section 15(b), to the extent that it may wish, the Company, jointly with any other indemnifying party similarly notified, shall be entitled to assume the defense thereof, with counsel satisfactory to the Indemnitee. After notice from the Company to the Indemnitee of its election so to assume the defense thereof, the Company shall not be liable to the Indemnitee under this Agreement for any expenses of counsel subsequently incurred by the Indemnitee in connection with the defense thereof except as otherwise provided below. The Indemnitee shall have the right to employ the Indemnitee's own counsel in such Proceeding, but the fees and expenses of such counsel incurred after notice from the Company of its assumption of the defense thereof shall be at the expense of the Indemnitee unless (i) the employment of counsel by the Indemnitee has been authorized by the Company, (ii) the Indemnitee shall have reasonably concluded that there may be a conflict of interest between the Company and the Indemnitee in the conduct of the defense of such Proceeding, or (iii) the Company shall not within 60 calendar days of receipt of notice from the Indemnitee in fact have employed counsel to assume the defense of the Proceeding, in each of which cases the fees and expenses of the Indemnitee's counsel shall be at the expense of the Company. The Company shall not be entitled to assume the defense of any Proceeding brought by or on behalf of the Company or as to which the Indemnitee shall have made the conclusion provided for in (ii) above; and

(c) Notwithstanding any other provision of this Agreement, the Company shall not be liable to indemnify the Indemnitee under this Agreement for any amounts paid in settlement of any Proceeding effected without the Company's written consent, or for any judicial or other award, if the Company was not given an opportunity, in accordance with this Section 15, to participate in the defense of such Proceeding. The Company shall not settle any Proceeding in any manner that would impose any penalty or limitation on or disclosure obligation with respect to the Indemnitee, or that would directly or indirectly constitute or impose any admission or acknowledgment of fault or culpability with respect to the Indemnitee, without the Indemnitee's written consent. Neither the Company nor the Indemnitee shall unreasonably withhold its consent to any proposed settlement.

16. Advancement of Expenses. All Expenses incurred by the Indemnitee in defending any Proceeding described in Section 4 or 5 shall be paid by the Company in advance of the final disposition of such Proceeding at the request of the Indemnitee. The Indemnitee's right to advancement shall not be subject to the satisfaction of any standard of conduct and advances shall be made without regard to the Indemnitee's ultimate entitlement to indemnification under the provisions of this Agreement or otherwise. To receive an advancement of Expenses under this Agreement, the Indemnitee shall submit a written request to the Chief Legal Officer of the Company. Such request shall reasonably evidence the Expenses incurred by the Indemnitee and shall include or be accompanied by an undertaking, by or on behalf of the Indemnitee, to repay all amounts so advanced if it shall ultimately be determined, by final judicial decision of a court of competent jurisdiction from which there is no further right to appeal, that the Indemnitee is not entitled to be indemnified for such Expenses by the Company as provided by this Agreement or otherwise. The Indemnitee's undertaking to repay any such amounts is not required to be secured. Each such advancement of Expenses shall be made within 30 calendar days after the receipt by the Chief Legal Officer of the Company of such written request. The Indemnitee's entitlement to Expenses under this Agreement shall include those incurred in connection with any action, suit, or proceeding by the Indemnitee seeking an adjudication or award in arbitration pursuant to Section 11 of this Agreement (including the enforcement of this provision) to the extent the court or arbitrator shall determine that the Indemnitee is entitled to an advancement of Expenses hereunder.

17. Severability; Prior Indemnification Agreement. If any provision or provisions of this Agreement shall be held to be invalid, illegal, or unenforceable as applied to any person or entity or circumstance for any reason whatsoever, then, to the fullest extent permitted by law (a) the validity, legality, and enforceability of such provision in any other circumstance and of the remaining provisions of this Agreement (including, without limitation, all portions of any paragraphs of this Agreement containing any such provision held to be invalid, illegal, or unenforceable, that are not by themselves invalid, illegal, or unenforceable) and the application of such provision to other persons or entities or circumstances shall not in any way be affected or impaired thereby, and (b) to the fullest extent possible, the provisions of this Agreement (including, without limitation, all portions of any paragraph of this Agreement containing any such provision held to be invalid, illegal, or unenforceable, that are not themselves invalid, illegal, or unenforceable) shall be construed so as to give effect to the intent of the parties that the Company provide protection to the Indemnitee to the fullest extent set forth in this Agreement. This Agreement shall supersede and replace any prior indemnification agreements entered into by and between the Company and the Indemnitee and any such prior agreements shall be terminated upon execution of this Agreement.

18. Headings; References; Pronouns. The headings of the sections of this Agreement are inserted for convenience only and shall not be deemed to constitute part of this Agreement or to affect the construction thereof. References herein to section numbers are to sections of this Agreement. All pronouns and any variations thereof shall be deemed to refer to the singular or plural as appropriate.

19. Other Provisions.

(a) This Agreement and all disputes or controversies arising out of or related to this Agreement shall be governed by, and construed in accordance with, the internal laws of the State of Delaware, without regard to the laws of any other jurisdiction that might be applied because of conflicts of laws principles of the State of Delaware.

(b) This Agreement may be executed in two or more counterparts, all of which shall be considered one and the same instrument and shall become effective when one or more counterparts have been signed by each of the parties and delivered to the other party.

(c) This Agreement shall not be deemed an employment contract between the Company and any Indemnitee who is an officer of the Company, and, if the Indemnitee is an officer of the Company, the Indemnitee specifically acknowledges that the Indemnitee may be discharged at any time for any reason, with or without cause, and with or without severance compensation, except as may be otherwise provided in a separate written contract between the Indemnitee and the Company.

(d) In the event of payment under this Agreement, the Company shall be subrogated to the extent of such payment to all of the rights of recovery of the Indemnitee (excluding insurance obtained on the Indemnitee's own behalf), and the Indemnitee shall execute all papers required and shall do everything that may be necessary to secure such rights, including the execution of such documents necessary to enable the Company effectively to bring suit to enforce such rights.

(e) This Agreement may not be amended, modified, or supplemented in any manner, whether by course of conduct or otherwise, except by an instrument in writing specifically designated as an amendment hereto, signed on behalf of each party. No failure or delay of either party in exercising any right or remedy hereunder shall operate as a waiver thereof, and no single or partial exercise of any such right or power, or any abandonment or discontinuance of steps to enforce such right or power, or any course of conduct, shall preclude any other or further exercise thereof or the exercise of any other right or power.

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IN WITNESS WHEREOF, the Company and the Indemnitee have caused this Agreement to be executed as of the Effective Date.

Cogent Biosciences, Inc.

By:
Name:
Title:
Date:

Indemnitee

By:
Name:
Title:
Date:

COGENT BIOSCIENCES, INC.

AMENDED AND RESTATED NON-EMPLOYEE DIRECTOR COMPENSATION POLICY

ADOPTED: FEBRUARY 9, 2018

EFFECTIVE: MARCH 28, 2018

AMENDED AND RESTATED: JANUARY 1, 2022

The purpose of this Non-Employee Director Compensation Policy of Cogent Biosciences, Inc. (the “Company”), is to provide a total compensation package that enables the Company to attract and retain, on a long-term basis, high-caliber directors who are not employees or officers of the Company or its subsidiaries. In furtherance of the purpose stated above, all non-employee directors shall be paid compensation for services provided to the Company as set forth below:

Cash Retainers

Annual Retainer for Board Membership: \$40,000 for general availability and participation in meetings and conference calls of our Board of Directors, to be paid quarterly in arrears, pro rated based on the number of actual days served by the director during such calendar quarter.

Additional Annual Retainer for Non-Executive Chair of the Board:	\$ 30,000
Additional Retainers for Committee Membership:	
Audit Committee Chair:	\$ 15,000
Audit Committee member:	\$ 7,500
Compensation Committee Chair:	\$ 11,000
Compensation Committee member:	\$ 5,500
Nominating and Corporate Governance Committee Chair:	\$ 8,000
Nominating and Corporate Governance Committee member:	\$ 4,000

Note: Chair and committee member retainers are in addition to retainers for members of the Board of Directors.

Each non-employee director may elect to receive all or a portion of her or his cash compensation in the form of an equity award of (a) unrestricted shares having a grant date fair value equal to the amount (or portion thereof) of such compensation or (b) stock options to purchase common stock based on the Black-Scholes option-pricing model as of the date of grant. Any such election shall be made (i) for any continuing non-employee director, before the start of the calendar year with respect to any cash compensation for such calendar year and (ii) for any new non-employee director, within 30 days of her or his election to the Board of Directors. Any such stock options shall be vested upon grant and shall expire ten years from the date of grant.

Equity Retainers

Initial Award: An initial, one-time equity award (the “Initial Award”) of 61,400 shares to each new non-employee director upon his or her election to the Board of Directors, which shall vest ratably monthly, provided, however, that all vesting shall cease if the director resigns from the Board of Directors or otherwise ceases to serve as a director of the Company. Unless otherwise determined by the Board of Directors, the Annual Award shall be in the form of a stock option. If the Initial Award is in the form of a stock option, such stock option shall have a per share exercise price equal to the Fair Market Value (as defined in the Company’s 2018 Stock Option and Incentive Plan) of the Company’s common stock on the date of grant, which shall be the effective date of the appointment of the new director (or, if such date is not a trading day, the next trading day).

Annual Award: On each date of the Company’s Annual Meeting of Stockholders (the “Annual Meeting”), each continuing non-employee member of the Board of Directors, other than a director receiving an Initial Award, will receive an annual equity award (the “Annual Award”) of 30,700 shares, which shall vest in full upon the earlier to occur of the first anniversary of the date of grant or the date of the next Annual Meeting; provided, however, that all vesting shall cease if the director resigns from the Board of Directors or otherwise ceases to serve as a director,

unless the Board of Directors determines that the circumstances warrant continuation of vesting. Unless otherwise determined by the Board of Directors, the Annual Award shall be in the form of a stock option. If the Annual Award is in the form of a stock option, such stock option shall have a per share exercise price equal to the Fair Market Value (as defined in the Company's 2018 Stock Option and Incentive Plan) of the Company's common stock on the date of grant, which shall be the date of the Annual Meeting.

Expenses

The Company will reimburse all reasonable out-of-pocket expenses incurred by non-employee directors in attending meetings of the Board or any Committee.

SUBSIDIARIES OF THE REGISTRANT

The following is a list of our subsidiaries:

<u>Name</u>	<u>State or Other Jurisdiction of Incorporation</u>	<u>Name Under Which Does Business</u>
Mono Inc.	Massachusetts	Mono Inc.
Kiq Bio LLC	Delaware	Kiq Bio LLC

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We hereby consent to the incorporation by reference in the Registration Statements on Form S-8 (Nos. 333-258865, 333-254320, 333-249884, 333-224137 and 333-230559) and Form S-3 (Nos. 333-252873 and 333-248971) of Cogent Biosciences, Inc. of our report dated March 15, 2022 relating to the financial statements, which appears in this Form 10-K.

/s/ PricewaterhouseCoopers LLP

Boston, Massachusetts
March 15, 2022

CERTIFICATIONS

I, Andrew Robbins, certify that:

1. I have reviewed this Annual Report on Form 10-K of Cogent Biosciences, Inc.;

2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;

3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;

4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:

a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;

b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;

c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and

d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and

5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):

a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and

b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: March 15, 2022

By: /s/ Andrew Robbins

Andrew Robbins
Chief Executive Officer
(Principal Executive Officer)

CERTIFICATIONS

I, John Green certify that:

1. I have reviewed this Annual Report on Form 10-K of Cogent Biosciences, Inc.;

2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;

3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;

4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:

a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;

b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;

c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and

d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and

5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):

a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and

b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: March 15, 2022

By: /s/ John Green

John Green

Chief Financial Officer

(Principal Financial and Accounting Officer)

**CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350,
AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

In connection with the Annual Report on Form 10-K of Cogent Biosciences, Inc. (the “Company”) for the fiscal year ended December 31, 2021 as filed with the Securities and Exchange Commission on the date hereof (the “Report”), the undersigned, Andrew Robbins, President and Chief Executive Officer of the Company, hereby certifies, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that to the best of his knowledge:

(1) the Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and

(2) the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: March 15, 2022

By: /s/ Andrew Robbins
Andrew Robbins
Chief Executive Officer
(Principal Executive Officer)

**CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350,
AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

In connection with the Annual Report on Form 10-K of Cogent Biosciences, Inc. (the “Company”) for the fiscal year ended December 31, 2021 as filed with the Securities and Exchange Commission on the date hereof (the “Report”), the undersigned, John Green, Chief Financial Officer of the Company, hereby certifies, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that to the best of his knowledge:

(1) the Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and

(2) the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: March 15, 2022

By: /s/ John Green

John Green

Chief Financial Officer

(Principal Financial and Accounting Officer)