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· We are a biopharmaceutical company with a limited operating history and we have not generated any revenue from product sales. We expect to continue to incur significant expenses and increasing operating losses for at least the next several years and may never achieve or maintain profitability. • We will need to raise substantial Substantial doubt exists about our ability to continue as a going concern. Our ability to continue as a going concern requires that we obtain sufficient additional funding to finance our operations. If we are unable to raise capital when needed, we would be forced to delay, reduce or eliminate some of our research, clinical trials, product development programs, or future commercialization efforts. • We have incurred indebtedness, and we may incur additional indebtedness, which could adversely affect our financial condition. • Our business is dependent on the success of our lead product candidate. CAN- 2409, as well as CAN- 3110 and any other product candidates that we advance into the clinic. All of our product candidates will require additional development before we may be able to seek regulatory approval for and launch a product commercially. • Our preclinical studies and clinical trials may fail to demonstrate adequately the safety and efficacy of any of our product candidates, which would prevent or delay development, regulatory approval, and commercialization. • Our product candidates are based on a novel approach to the treatment of cancer, which makes it difficult to predict the time and cost of product candidate development and subsequently obtaining regulatory approval, if at all. • Even if we receive marketing approval for our current or future product candidates, our current or future product candidates may not achieve broad market acceptance, which would limit the revenue that we generate from their sales. • The regulatory approval processes of the FDA and comparable foreign regulatory authorities are lengthy, time consuming and inherently unpredictable. If we are not able to obtain, or experience delays in obtaining, required regulatory approvals, we will not be able to commercialize CAN- 2409, CAN- 3110 and future product candidates as expected, and our ability to generate revenue may be materially impaired. • The FDA's agreement to a Special Protocol Assessment with respect to the study design of our Phase phase 3 clinical trial of CAN- 2409 in newly diagnosed localized prostate cancer in intermediate and high-risk patients does not guarantee any particular outcome from regulatory review, including ultimate approval, and may not lead to a successful review or approval process. • Some of our product candidates are being and may continue to be studied in third-party research and clinical trials sponsored by organizations or agencies other than us, or in investigator- sponsored clinical trials, which means we will have minimal or no control over the conduct of such trials and which may adversely affect our ability to obtain marketing approval or certain regulatory exclusivities. • Changes in product candidate manufacturing or formulation may result in additional costs or delay. • The COVID- 19 pandemic Any future public health crisis, outbreaks of which began in late 2019 and an infectious disease has spread worldwide, may affect our or ability to complete our ongoing geopolitical conflicts may elinical trials and initiate and complete other preclinical studies, planned elinical trials or future elinical trials, disrupt regulatory activities, disrupt our manufacturing and supply chain, or have other adverse effects on our business and operations. In addition, the COVID-19 pandemic has caused substantial disruption in the financial markets and may adversely impact economies worldwide, both of which could result in adverse effects on our business, operations and ability to raise eapital. • If the government or third-party payors fail to provide adequate coverage, reimbursement and payment rates for our product candidates, or if health maintenance organizations or long- term care facilities choose to use therapies that are less expensive or considered a better value, our revenue and prospects for profitability will be limited. • If the manufacturers upon which we may rely fail to produce our product candidates in the volumes that we require on a timely basis, or fail to comply with stringent regulations applicable to biopharmaceutical manufacturers, we may face delays in the development and commercialization of, or be unable to meet demand for, our product candidates and may lose potential revenues. • The transition of our manufacturing operations to a third- party contract manufacturer may result in further delays or expenses, and we may not experience the anticipated operating efficiencies. • Our rights to develop and commercialize certain of our product candidates are subject and may in the future be subject, in part, to the terms and conditions of licenses granted to us by third parties. If we fail to comply with our obligations under our current or future intellectual property license agreements or otherwise experience disruptions to our business relationships with our current or any future licensors, we could lose intellectual property rights that are important to our business. PART I Item 1. Business. Overview We are a clinical stage biopharmaceutical company focused on developing and commercializing off- the- shelf viral immunotherapies that elicit an individualized, systemic anti- tumor immune response to help patients fight cancer. Our engineered viruses are designed to induce a systemic anti- tumor response due to immunogenic cell death through direct viral- mediated cytotoxicity in cancer cells, thus releasing tumor neo- antigens and creating a pro- inflammatory microenvironment at the site of injection. This is intended to lead to in- situ vaccination against the injected tumor and uninjected distant metastases. Our viral immunotherapy approach utilizes intratumoral administration of genetically engineered viruses to induce tumor cell death and elicit a systemic anti-tumor response. Local delivery enables us to achieve these effects while aiming to minimize systemic toxicity. The immune cells induced by these viral immunotherapies are believed to target patients' specific tumor antigens, potentially improving responses in immunologically " hot" tumors while at the same time infiltrating the tumor microenvironment, transforming non-inflamed "cold" tumors with limited immune response into "hot" tumors. While our product candidates are administered directly into the tumor, we have observed a systemic immune response in our preclinical studies and clinical trials that may indicate the potential of our product candidates to induce a systemic immune response against distal, uninjected tumors, also known as an "abscopal" effect. We believe viral immunotherapy is among the most promising cancer treatment modalities today. Our goal is to further improve patient outcomes through viral immunotherapies by selecting the optimal vector, specific transgenes and clinical indications for

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each tumor type while optimizing product candidate attributes, such as high-titer formulation, intratumoral administration to
induce systemic anti-tumor immunity, and storage conditions that could potentially lower logistical barriers for patients and
clinicians. We have established two clinical stage off- the-shelf viral immunotherapy platforms based on novel, genetically
modified adenovirus and herpes simplex virus (HSV) constructs, respectively. Our most advanced product candidate, CAN-
2409, is an off- the- shelf adenovirus product candidate which is combined administered in conjunction with the product 5
valacyclovir, that has generated promising clinical activity across a range of solid tumor indications. CAN- 2409 is currently
being studied in the following ongoing clinical trials: • Prostate Cancer oa oA pivotal Phase phase 3 randomized, triple-blinded
and placebo- controlled clinical trial in the United States under a Special Protocol Assessment (SPA), with the U. S. Food and
Drug Administration (FDA) evaluating 711 evaluable patients with newly diagnosed, localized prostate cancer who have an
intermediate or high-risk for progression. We completed enrollment of this trial in September 2021, and we expect to present
report topline data at in the end fourth quarter of 2024. oa oA Phase phase 2 randomized, double blind, placebo- controlled
clinical trial in the United States evaluating 187 patients with low- to- intermediate risk, localized prostate cancer undergoing
active surveillance. We completed enrollment of this trial in May 2019, and we expect to report topline data from this clinical
trial to be available in the fourth quarter of 2024. Non-small Small Cell Lung Cancer (NSCLC) oAn—an-open-label Phase
phase 2 clinical trial in the United States evaluating CAN- 2409 plus valacyclovir in combination with continued PD- (L) 1
checkpoint inhibitors in approximately 80 patients with stage III / IV NSCLC who have inadequate response to front line PD-
(L) 1 checkpoint inhibitors- inhibitor treatments. We reported initial In April 2023, we announced that the FDA granted
fast track designation for CAN- 2409 plus valacyclovir in combination with pembrolizumab in order to improve survival
or delay progression in patients with stage III (not candidates for curative intent) or stage IV NSCLC, who are resistant
to first line PD- (L) 1 inhibitor therapy and who do not have activating molecular driver mutations or have progressed
on directed molecular therapy. These patients historically have had an expected median overall survival (mOS) of 10- 14
months (Reckamp K et al. J Clin Onc 2022; 40: 2295- 2306). The aim of the CAN- 2409 immunotherapy antitumor
strategy is to raise the tail on the survival curve by increasing the number of long survivors beyond 10-14 months. oIn
<mark>2022, we presented</mark> data from this <mark>phase 2 clinical</mark> trial <del>at where patients who received two administrations of CAN- 2409</del>
plus prodrug and completed the <del>American Society for Clinical Oncology-<mark>12- week treatment window that demonstrated:</mark></del>
1) increased infiltration of CD8 cytotoxic tumor infiltrating lymphocytes in the tumor microenvironment, systemic
expansion of effector T cells and increased soluble granzyme B levels in peripheral blood, 2) favorable changes in the
trajectory of tumor progression, 3) decreased tumor size of target lesions in most patients, and 4) reduced size of
uninjected tumor lesions ( Aggarwal C et al. Abstract # 9037 ASCO ) Annual Meeting in June 2022 and Aggarwal C et al.
Candel Virtual R & D Day, December 2022). These data were further supported in an update released September during
our Research and Development Day in December 2022 2023, demonstrating the following based on a data cutoff of August 1,
2023: • 40 patients across Cohort 1 (stable oEvidence of local and systemic anti-tumor activity oDisease disease at
enrollment; n = 5) and Cohort 2 (progressive disease at enrollment; n = 35) were evaluable, as they received two courses
of CAN- 2409 plus valacyclovir and completed the 12- week treatment window. • While overall survival was not yet
mature, we observed an encouraging number of long survivors. We believe that CAN- 2409 may induce a new state of
functional immunosurveillance and durable disease control rate in a subset of 77-the patients. • Of the 40 evaluable
patients, 15 patients had lived \geq 12 months; of these, 10 patients had lived > 18 months, of whom 70 % (20-7/26-10) in
were alive as of last follow up. All 4 patients <del>entering trial</del> (100 %) with <mark>overall survival > 24 months were alive at last</mark>
follow up, with the longest reaching 31, 7 months. • An additional 18 out of the 40 evaluable patients were also alive but
had not yet reached 12 months of follow up. Notably, many patients treated with CAN-2409 had long survival (> 12
months) despite having disease progression features generally associated with advanced disease and reduced likelihood to
benefit from immune checkpoint inhibitor therapy, such as low or negative PD- (L cohort 2) oSustained and ongoing
elinical responses greater than 1 year oFavorable change in trajectory of tumor progression --- expression, including: •
Amongst oDecreased tumor size of RECIST target lesions in most patients oReduced uninjected tumor size in alive ≥ 12
months with known PD- (L) 1 status (14/<del>21 patients</del> 15), 93 % had negative or low PD- (67-L) 1 score (< 1 or between 1-
49). • Advanced disease with stage IV in 73 % (11 / 15) oOverall response rate of 13, lymph node involvement in 73 % (11
/ 15), pleural effusion in 40 % (6 / 15), bone metastases in 27 % (4 / 30-15) across cohorts-, adrenal metastases in 20 % (3 /
15), brain metastases in 13 % (2 / 15), liver metastases in 7 % (1 and / 15), involvement of 3 or more organs in 13 % (2 /
15), oDurable disease stabilization translating into encouraging preliminary evidence of progression- free survival oConsistent
induction of local and systemic cytotoxic Eastern Cooperative Oncology Group performance status 1 in 40 % (6/15).
There was a significant increase observed in activated central memory, effector- memory, effector T eell-cells response
olinereased infiltration of and natural killer (NK) cells after CAN-2409 treatment. These include CD8 Ki67 IFNg T cells
in the tumor microenvironment oSystemic expansion of effector, CD8 granzyme B Ki67 T cells and increase in soluble,
CD56 CD16 granzyme B levels-NK cells, and gd T cells. We also observed an increase in memory B cells after CAN-2409
treatment • We observed an increase in effector / cytotoxic T cells and NK cells in peripheral blood after the second CAN-
2409 administration associated with subsequent improved survival (≥ 12 months). • We continued to observe a
oFavorable favorable safety / tolerability data with most profile after CAN- 2409 treatment - in NSCLC. There were no dose
limiting toxicities or grade 4 or greater treatment related adverse events being. grade Grade 1/3 treatment related
adverse events were reported in < 10 % of patients receiving at least one dose of CAN- 2409 (safety population), which
we believe compares favorably to current standard of care (SoC) options, oCandel expects to share topline overall
<mark>survival data for Cohort</mark> 2 <del>We anticipate presenting additional updated clinical <mark>in the second quarter of 2024, assuming</mark> data</del>
are mature at that time from this ongoing clinical trial in the third quarter of 2023. • Pancreatic Cancer oWe — we have
initiated a randomized Phase phase 2 clinical trial in the United States evaluating CAN- 2409 in borderline resectable and
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locally advanced pancreatic adenocarcinoma. In December 2023, we announced that the FDA granted fast track
designation for CAN- 2409 plus valacyclovir for the treatment of patients with pancreatic ductal adenocarcinoma
(PDAC) to improve overall survival. In March 2023, in connection with our cost management and dynamic portfolio
management initiatives, we elected to paused new enrollment in this randomized Phase 2 clinical trial, subject to
additional funding. Despite the pause in new patient enrollment, we continue to expect to presented initial positive
interim overall survival and immunological biomarker clinical data at the Society for Immunotherapy of Cancer (SITC)
Annual Meeting in the fourth quarter of 2023. In oln a previous Phase phase 1b trial , patients with pancreatic cancer treated
with CAN-2409 in addition to standard of care demonstrated a greater survival duration over the expected survival of the
patients treated with the existing standard of care alone in a comparison to historical trial results. Furthermore, in the group of
patients where pre- and post- treatment tumor biopsies were available, a statistically significant increase in the number of CD8
tumor infiltrating lymphocytes was observed. Initial positive phase 2 data revealed notable improvements in patients with
borderline resectable pancreatic ductal adenorcarcinoma (PDAC) following CAN- 2409 plus prodrug together with SoC
chemoradiation; the following data were disclosed as of the August 21, 2023 data cutoff • Clinical data highlights: •
Prolonged and sustained survival was observed after experimental treatment with CAN- 2409 in patients with borderline
resectable PDAC. • An estimated survival rate of 71. 4 % at both 24 and 36 months was observed in patients who
received CAN- 2409 regimen together with SoC chemoradiation prior to surgery, versus only 16.7 % estimated survival
at 24 and 36 months with SoC chemoradiation prior to surgery • Importantly, 5 out of 7 patients who received CAN-
2409 were still alive at the time of data cutoff, with two patients surviving more than 45 months from enrollment. Only
one patient randomized to control SoC chemotherapy remained alive at data cutoff (alive at 43 months). • mOS has not
been reached yet in patients who received CAN- 2409 because most of the patients in the CAN- 2409 group were still
alive at data cut- off; mOS was 12. 5 months in the control arm. • Disease course was altered after salvage chemotherapy
with improved CA19- 9 levels and ongoing survival in CAN- 2409 arm, but not in control arm. • Biomarker data analysis
demonstrated: • Consistent and robust activation of immune response after dosing with CAN- 2409. • In pancreatic
tissue of patients treated with CAN- 2409 plus prodrug together with SoC (but not SoC alone), dense aggregates of CD8
granzyme B positive cytotoxic T cells, dendritic cells, and B cells were observed in the tumor microenvironment.
Increased levels of soluble granzymes B and H as well as pro- inflammatory cytokines, including IFN- γ, were observed
in peripheral blood after CAN- 2409 treatment, but not with control treatment. • Safety analysis: • CAN- 2409 was
associated with a favorable tolerability profile. • Addition of CAN- 2409 regimen to SoC was generally well tolerated,
with no reported dose- limiting toxicities, including no cases of pancreatitis. Our lead HSV- based product candidate, CAN-
3110, is currently in an ongoing investigator-sponsored Phase phase 1 clinical trial in our initial target indication of recurrent
high- grade glioma (HGG). In February 2024, we announced that the FDA granted fast track designation for CAN-3110
for the treatment of patients with recurrent HGG to improve overall survival. These patients have failed SoC standard of
eare-treatment and have a poor prognosis (expected overall survival < 6-9 months). Initial elinical-overall survival data from
this clinical trial was presented in an oral presentation at the ASCO Annual Meeting in June 2021, and additional biomarker
data was reported in an oral presentation at the Society for Neuro- Oncology Annual Meeting in November 2021. During
our Research and Development Day in December 2022, we presented updated data demonstrating that CAN-3110 was well
tolerated with no observed dose-limiting toxicity, achieved 11. 6 months mOS with a single dose, and showed evidence of
persistent herpes simplex virus 1 (HSV-1) antigen and HSV-1 replication consistent with mechanism of action as well as
robust evidence of immune activation. In May 2023, we presented clinical and biomarker data from this ongoing clinical
trial in an oral presentation at the American Society of Gene & Cell Therapy (ASGCT) Annual Meeting where we
reported mOS in arm A (n = 41) ongoing at 11. 8 months and mOS in arm B (n = 9) ongoing at 12. 0 months as of the
April 20, 2023 data cutoff. Safety and tolerability data reported no dose- limiting toxicities in both arm A and arm B. In
October 2023, we jointly published an article in Nature that reported extended survival associated with immune
activation in patients with recurrent HGG treated with CAN- 3110. Notably, new data reported an increased survival in
66 % of patients with positivity for anti- HSV1 antibodies (mOS of 14.2 months). Immune status was positively
associated with survival both in patients with pre- existing HSV1 antibodies (pre- treatment) and in 33 % of patients
that, while negative at baseline, developed anti- HSV1 antibodies after a single injection of CAN- 3110. Clinical responses
were observed in both injected and uninjected lesions in patients with multifocal disease. Significant tumor responses in
both arm A and arm B were observed, with continued reduction in tumor volume in a patient in arm B approximately
one year after CAN- 3110 treatment. Clinical response for this patient, in follow- up as of data cutoff, continued without
additional treatment. Analysis of post- treatment samples demonstrated evidence of persistent HSV antigen expression
and replication in both injected and uninjected tumor tissue associated with CD8 T cell infiltration. The extent of
immune activation, measured by gene profiling and quantification of immune cells in post- treatment specimens, was
associated with the presence of anti- HSV1 antibodies and survival. Survival was also associated with the diversity of the
T cell repertoire in circulating T cells, suggesting that patients treated with CAN- 3110 were able to mount a diverse
immune response against the virus and tumor antigens released during the oncolytic process had improved survival. We
are conducting an extension currently evaluating the effects of multiple doses of CAN-3110 the clinical trial known as arm
C, in which patients with recurrent HGG will receive a repeat dosing regimen of CAN-3110 (up to six injections over four
months). Clinical data from arm C will help evaluate whether multiple injections can increase mOS. This clinical trial
extension is supported by the Break Through Cancer foundation. We are also designing other novel viral immunotherapy
candidates using our proprietary enLIGHTEN TM Discovery Platform, a the first systematic, iterative HSV- based discovery
platform leveraging human biology and advanced analytics to create new viral immunotherapy candidates for solid tumors. In
October 2022, we entered into a collaboration with the University of Pennsylvania (UPenn) Center for Cellular
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Immunotherapies to study the impact of novel viral immunotherapy candidates based on our <del>Candel's</del> enLIGHTEN ™
Discovery Platform to strengthen the activity of UPenn's investigational CAR-T cell therapies in difficult to treat solid
tumors. In November 2023, during the SITC 2023 Annual Meeting, we presented two posters describing the key
elements of the platform and the development of the first experimental agent from the enLIGHTEN Discovery Platform.
The new agent, Alpha-201 Macro1, is an investigational viral immunotherapy designed to interfere with the CD47
SIRPa pathway and activate innate immune surveillance. Results demonstrated monotherapy activity following local
administration in a preclinical model of lung and breast cancer. Additional preclinical data presented at SITC confirmed
the capability of the enLIGHTEN TM Advanced Analytics suite to predict optimal gene payload combinations to arm
viral vectors, that enable the design of potential combination therapeutics to overcome tumor resistance especially in
cancers resistant to ICI treatment. In March 2024, we announced the acceptance of an abstract at the American
Association for Cancer Research's (AACR) 2024 Annual Meeting related to the second candidate from our
enLIGHTEN TM Discovery Platform, a first- in- class multimodal immunotherapy for induction of tertiary lymphoid
structures as a novel therapeutic strategy for solid tumors. We currently own development and commercialization rights for
our programs in major markets, including the United States, Europe and Asia, allowing us to control development and seek
approval in those areas as we prepare our commercialization efforts. We were incorporated in Delaware in June 2003 as
Advantagene, Inc. (Advantagene). In December 2019, Advantagene licensed substantially all the assets of Periphagen, a
company focused on engineering HSV as a gene therapy vector, and in September 2020, licensed CAN- 3110 from Mass
General Brigham (MGB). In December 2020, we formally changed our name from Advantagene to Candel Therapeutics, Inc.
We completed our initial public offering in July 2021. Our Strategy Our goal is to develop first- in class and best- in- class
viral immunotherapies to transform the lives of cancer patients. We plan to develop and commercialize our two <del>lead <mark>most</mark></del>
advanced product candidates, CAN- 2409 and CAN- 3110, for the treatment of a broad range of solid tumor indications, while
continuing to build our pipeline through our discovery platform. Key elements of our strategy include the following: • Advance
the late- stage development of, and seek regulatory approval for, our lead-product candidate, CAN- 2409, in newly diagnosed,
localized prostate cancer. We are currently conducting a potentially registrational Phase phase 3 clinical trial in intermediate-
and high- risk patients in combination with the SoC standard of care-, radiotherapy. If approved, we believe CAN- 2409 could
be a first- in- class drug for localized prostate cancer patients with the potential to significantly increase percentage of
patients that achieve disease- free survival or reduce disease progression and recurrence. • Advance the clinical development
of CAN-3110 from our HSV platform with tumor-specific enhanced replication potency. An investigator-sponsored Phase
phase +1b clinical trial is ongoing in recurrent HGG. This trial is evaluating the activity of CAN-3110 in therapy- resistant
disease, where we believe a replicating virus may present therapeutic advantages. Our aim is to improve mOS compared to
optimal SoC. • Advance the development of CAN- 2409 in stage III / IV NSCLC patients with inadequate responses to SoC
standard of care-immune checkpoint inhibitors (ICI). A Phase phase 2 clinical trial that evaluates CAN- 2409 in combination
with ICI is currently underway in NSCLC. Our aim is to improve mOS compared to optimal SoC (12- 14 months). •
Advance Continue to expand the development of CAN- 2409 in other solid tumor indications patients with newly diagnosed,
such localized prostate cancer. A phase 2 trial that evaluates CAN-2409 as a monotherapy is currently underway in low
to moderate risk patients who are under active surveillance. Our aim is to improve progression- free survival compared
to the active surveillance approach. • Advance the development of CAN- 2409 in pancreatic cancer . We believe we can
leverage our broad clinical experience to expand the development of CAN-2409 in other indications. We have initiated a
randomized Phase phase 2 clinical trial in patients with borderline resectable pancreatic adenocarcinoma, However, in March
2023, in connection with our cost management and dynamic portfolio management initiatives, we elected to pause new
enrollment in this randomized Phase phase 2 clinical trial, subject to additional funding , while we continue to follow the
patients who participated in the clinical trial. Our aim is to improve mOS compared to SoC. • Advance the development
and initiate IND- enabling work of CAN- 3110 in a second indication characterized by Nestin expression. We intend to
discuss a new clinical trial designed to explore safety, tolerability and preliminary efficacy in a new indication
characterized by Nestin expression (such as breast cancer or melanoma) with the FDA. • Leverage our HSV viral
immunotherapy platform to develop additional HSV- based product candidates. Our new enLIGHTEN ™ Discovery Platform
enables rapid vector engineering to generate a range of new candidates in a data driven and indication specific manner. We
utilize a key attribute of HSV, a high capacity for genetic cargo, to seek to enable targeted modifications and deploy indication
specific genes to the tumor microenvironment. Our platform is designed to generate both replication-defective and replication-
competent agents depending on the demands of a particular application. • Establish strategic partnerships to maximize the value
of our current and future product candidates. In order to advance treatment options for a large number of patients, we may
partner with other companies with complementary resources to maximize the value of our current and future product candidates.
Such partnerships may allow us to pair CAN- 2409, CAN- 3110 and our future product candidates with other novel agents
owned by strategic partners. Partnerships may also help realize the full potential of our product candidates in markets where we
are unlikely to pursue development or commercialization on our own. We intend to maintain significant economic interest in our
product candidates and selectively consider partnership opportunities. • Ensure commercial- scale manufacturing of our product
candidates. We will rely on third party contract manufacturers for commercial- scale manufacturing of both our adenovirus
product eandidate candidates, CAN- 2409 and CAN- 3110. We expect that our cost- of- goods will be substantially lower
than cell- and antibody- based therapies because of our high- yield manufacturing process. Our Approach Conventional cancer
therapies (chemotherapy, radiotherapy and surgery) often do not eradicate 100 % of the tumor cells, which often leads to tumor
progression or recurrence. Deep and durable responses, therefore, are still elusive for many cancer patients. Traditionally,
surgery and / or radiotherapy are used for local tumor debulking, whereas chemotherapeutic agents target systemic eradication
of tumor cells. These treatment modalities, however, are often limited by toxicity. Immunotherapy is a relatively new treatment
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modality that has expanded the anti- cancer treatment paradigm. FDA- approved immunotherapies include cytokines, cell
therapies and antibodies, including ICIs. Much focus has been placed on harnessing the effector T cell arm of the immune
system for tumor specific immunity. Adoptive T cell therapy has shown positive results but with limited activity in solid tumors,
and is not scalable for widespread use. Vaccine approaches range in complexity from peptide antigens to autologous or
allogeneic tumor cell products. The advantage of the single antigen approaches is that they can be easily manufactured and
produced, however, they have the fundamental disadvantage of being potentially irrelevant for a patient's specific tumor or
immune system or easily bypassed by resistant clones. Cellular vaccines are not easily scalable and allogeneic vaccines may not
bear the relevant antigens expressed by a patient's tumor. ICIs such as anti-PD-1 and anti-PD-L1 antibodies, have
transformed the treatment paradigm for different cancer indications. However, only approximately 15 % to 40 % of overall
patients respond to such treatment. We are focused on the development of viral immunotherapy approaches, which are based on
an extensive history of research. Originally, the mechanism of action of those agents was believed to be based only on the ability
of the virus to induce cancer cell lysis and to resolve tumors. Later, it was demonstrated that viral immunotherapy may induce
immunogenic cell death. This effect may be enhanced by the pro- inflammatory effects of the viral capsid proteins. With the
dramatic emergence of ICIs and immunotherapy as a core treatment modality, the importance of the immunostimulatory aspect
of viral- mediated approaches became more widely evident. The currently understood generalized mechanism of action of viral
immunotherapies is unique in combining both an anti-tumor cytotoxic component and an immune-stimulatory component.
Together, these modalities lead to an "in- situ vaccination" effect against the injected tumor followed by an effect on
uninjected distant metastases. Pairing this therapeutic approach with ICI treatment or with radiotherapy is based on a strong
mechanistic rationale and has shown promise in experimental models of cancer. It has been observed that tumors that are least
responsive to ICI are commonly characterized by low levels of lymphocytic infiltration and low or no PD- L1 expression levels;
they are referred to as "cold" tumors. One of our areas of focus is the conversion of immunologically suppressed "cold"
tumors into immunologically active "hot" tumors, thereby increasing their responsiveness to ICI or other therapies, such as
radiotherapy. The Mechanism of Action of Viral Immunotherapy: • Direct anti- tumor cytotoxic activity. Tumor- specific viral-
mediated oncolysis is achieved by both precise delivery of the engineered virus to the tumor as well as the virus' ability to
selectively replicate within a cancer cell. Various approaches have been applied in different programs to increase the specificity
and potency of viral toxicity aimed at tumor cells, including genetic modifications and use of prodrugs. • Broad stimulation of
anti-tumor immunity. The immunogenic cell death driven by oncolysis results in a potent local and systemic immune
stimulation with the increased expression of proinflammatory cytokines, chemokines and adhesion molecules. This, in turn,
promotes the activation of both the innate and adaptive arms of the immune system in the presence of highly immunogenic viral
components. This broad response commonly includes recruitment and activation of antigen- presenting cells and effector
immune cells to the site of the tumor. • Priming of the immune system against tumor antigens. The lysis of cancer cells leads to
the exposure of tumor- specific antigens. This early effect, combined with intratumoral immune cell infiltration and activation,
leads to antigen presentation and initiation of a local adaptive immune response targeted against a set of tumor antigens
expressed by the patient's cancer cells. • Development of a systemic immune memory response. Viral immunotherapy induces
the development of a long- lasting systemic immune surveillance against the antigens associated with the injected tumor, and
consequently, tumor antigens expressed at metastatic sites. This leads to a cytotoxic immune response against the distant tumor
cells, also known as an abscopal effect. Desirable Clinical Properties. Viral immunotherapy has attributes that are important for
a-cancer therapeutic therapeutics. The agents are off- the- shelf and while they have been shown to stimulate local and
<mark>systemic</mark> immune responses in most patients, <del>there is no <mark>leading to an individualized anti- tumor immune response. In</del></del></mark>
contrast, individualized cellular immunotherapies requirement---- require to modify them specific manufacturing
processes for each individual patient, unlike other cellular therapy approaches. The first viral immunotherapy was approved
by the FDA in 2015, providing support that additional agents in this class may have similar potential. Furthermore, safety data
shown in several clinical trials of various immunotherapies supports the ability to combine viral immunotherapy with other
agents due to the potential for fewer overlapping side effects. Our Immunotherapy Platforms. Our two clinical platforms, one
based on adenovirus and the other based on HSV, provide different and complementary sets of attributes, which allows us to
utilize the product candidate that is best suited for a particular clinical application. Key attributes across our viral
immunotherapy platforms include: • Targeting a Wide Range of Cell Types. Product candidates from both the HSV and
adenoviral platforms can transduce a diverse range of cell types, which we believe will allow us to address many different forms
of cancer. • Off- the- Shelf Product. A standardized product intended to be available as needed via prescription supports
straightforward clinical administration, simplified manufacturing and supply chain management. • Intratumoral Route of
Administration. Both of our product candidates are administered by direct injection into the tumor site, and have been shown
to result in a systemic immune response. This approach aims to maximize immune stimulation and minimize systemic
toxicity, factors that are believed to be suboptimal with intravenous administration. We believe that directly injecting these viral
immunotherapies into a patient's cancerous tissue helps to optimize the benefit / risk for these agents to be highly
immunostimulatory at the site of the tumor, whereas systemically administered agents would need to avoid detection by the
body's immune surveillance mechanisms to avoid rapid destruction before getting to the target tumor. While our product
candidates are administered directly into the tumor, we have observed a systemic anti-tumor immune response in our
preclinical studies and clinical trials that may indicate the potential of our product candidates to induce systemic immune
response against distal, resulting in improvement of both injected and uninjected tumors, also known as an "abscopal"
effect. For the indications that we selected, intratumoral administration is a straightforward procedure that is aligned with
clinical practice, leveraging SoC standard of care medical procedures, such as intra- prostate injection or delivery during
diagnostic (bronchoscopy) or therapeutic (neurosurgery) procedures. • Cost- efficient Manufacturing. Both product candidates
are relatively inexpensive to manufacture, particularly when compared to other biologic or cellular therapy treatments. Key
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attributes of our Adenoviral platform include: * Targeting a Wide Range of Cell Types. Adenoviruses can efficiently transduce cells from different lineages. This allows us to apply this platform to many different tumor types. Immunogenic Virus Particle. The adenoviral virus particles are strong simulators of the innate immune system, a property that contributes to immune activation at the site of administration. • High- Titer Formulation. Adenovirus can be formulated at high titers, facilitating the administration of low volume doses sufficiently potent to induce strong activity. Product Stability. The formulation deployed in clinical trials has stability at refrigerator temperatures (4 ° C), supporting use at less specialized and therefore widely accessible sites such as community-based private clinics. Non- Replicating Design. Engineering the adenovirus to remove replication ability reduces the potential for viral shedding, something which is particularly important in clinical applications such as prostate cancer. There is no need for in vivo amplification as the virus is highly immunogenic and can be administered at high titers. Key attributes of our CAN-3110 platform include: Capacity for selective replication in the tumor. There is a strong rationale for use of a replication-competent virus that is designed to provide potent oncolysis and viral amplification in tumors characterized by high volume or located in less anatomically accessible areas, such as recurrent HGG. We have engineered CAN-3110 to selectively replicate only within tumors. This tumor specific replication ability of CAN-3110 is regulated by the expression of ICP34. 5, a gene encoding for a protein that permits viral replication even in the presence of the interferon response that is normally able to quell viral infection. In the CAN-3110 construct, ICP34. 5 expression is driven by the expression of Nestin, a protein largely expressed in certain tumors, like gliomas, but not in healthy brain tissue, thereby enabling replication specifically in the context of brain tumors. We believe our HSV- based platform will allow us to implement additional genetic modifications to leverage the use of CAN-3110 in recurrent HGG and in other tumor types expressing Nestin. • Oncolytic activity combined with immunostimulatory properties. CAN-3110 is designed to persist and replicate at the site of the tumor. Viral replication is accompanied by tumor oncolysis, with release of tumor antigens in the microenvironment and activation of a local systemic immune response. Key attributes of the enLIGHTEN ™ Discovery Platform include: ■ Strong focus on human biology, including deep phenotyping of human tumors, to increase probability of success • Data driven selection of the payload. The use of advanced analytics on proprietary and publicly available datasets enables us to select what we believe is the best payload for combinatory strategy in a specific indication, rationalizing our payload selection, de-risking development and maximizing our probability of success. • Use of HSV based on its high capacity for genetic cargos. Our HSVbased platform allows the introduction of large genetic cargos, such as multiple immunomodulatory genes that may further enhance the anti-tumor immune response. • Amenable to engineered modifications. Our knowledge of virus biology allows us to make modifications, such as those already present in CAN-3110 to target certain tumor types. Leveraging these modifications, we can select the best viral vector to deliver the selected payload in a specific indication. Our Pipeline We have an advanced pipeline of late- stage and early- stage clinical trials with our two lead most advanced product candidates, CAN-2409 and CAN- 3110. CAN- 2409, formerly known as gene mediated cytotoxic immunotherapy (GMCI), is our most advanced product candidate. It is a replication defective adenovirus that has been genetically modified to express the gene encoding the HSV- thymidine kinase enzyme. This enzyme activates the prodrug, valacyclovir, a widely available, generally well- tolerated antiviral at the site of the tumor, generating a powerful patient- specific anti- tumor immune response. We believe there are three key aspects of the mechanism of action. First, the direct, cellular killing activity is based on the transformation of valacyclovir into a toxic nucleotide analogue that disrupts DNA synthesis and repair. This phenomenon occurs preferentially in actively dividing cancer cells, thereby providing tumor specificity. This DNA repair inhibition is also hypothesized to be the mechanistic explanation behind the encouraging pre-clinical and clinical activity of CAN-2409 in combination with radiotherapy, a treatment known to cause DNA breaks requiring repair for continued cellular survival. Second, adenoviral capsid proteins themselves also directly trigger an immuno- inflammatory response through the establishment of a proinflammatory tumor microenvironment, resulting in the expression of proinflammatory cytokines, chemokines, and adhesion molecules that contribute to the optimal conditions to immunize against the tumor antigens that are released in the tumor microenvironment as a direct result of the formed toxic nucleotide analogues. Together, this results in the recruitment, activation and proliferation of anti-tumor effector cells, in particular CD8 cytotoxic T cells. Consequently, the localized death of tumor cells releases numerous antigens that can be recognized by the patient's own immune system, thereby training the immune system to recognize, target and destroy cancer cells bearing the same antigens that have spread to other sites in the body. To date, CAN-2409 has been administered to over 950-1000 patients with cancer, many of who whom are in ongoing, placebo-controlled randomized clinical trials. In total, we have conducted more than 10 clinical trials with CAN- 2409 in a range of solid tumor indications. We have seen encouraging clinical activity and a favorable tolerability profile with CAN-2409 in both monotherapy and combination settings with radiotherapy, ICI therapy, androgen deprivation therapy (ADT), chemotherapy and surgery. Based on the totality of our clinical data generated to date, we are currently pursuing indications in lung, pancreatic, and prostate cancer, which we believe all have great potential to address the unmet need. We are conducting a Phase phase 3 clinical trial with of CAN- 2409 under agreement with the FDA through the SPA process in newly diagnosed localized prostate cancer in intermediate- and certain high- risk patients in combination with the SoC standard of care-that comprises radiotherapy and optional ADT. Our SPA provides FDA concurrence that our key endpoints and specific critical elements of our trial design are adequate to support a future marketing application if, among other things, we achieve the primary endpoint in the trial. The clinical trial is randomized, triple- blinded and placebo- controlled. It targeted enrollment of approximately 700 patients and was fully enrolled with 711 patients in September 2021 <mark>,</mark> with topline data anticipated at in the end <mark>fourth quarter of 2024. We have</mark> also received fast track designation by the FDA for the development of CAN- 2409 for the treatment of localized, primary prostate cancer in combination with radiotherapy to improve the local control rate, decrease recurrence and improve diseasefree survival. We expect that if the trial is successful and if we obtain FDA approval, CAN-2409 could be the first new FDA approved pharmacologic treatment available in over 30 years as a first-line therapeutic for the over 100, 000 patients who are newly diagnosed with localized prostate cancer each year in the United States. We have also completed enrollment for a Phase

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phase 2 clinical trial with of CAN- 2409 as monotherapy in newly diagnosed prostate cancer patients under active surveillance.
This trial has recruited 187 patients with low-, intermediate- and certain high- risk localized prostate cancer. We expect to
announce topline data in the fourth quarter of 2024. We believe that this trial, if successful, could position CAN-2409 as a first-
line monotherapy treatment for patients with low- and intermediate- risk prostate cancer, thereby meaningfully expanding the
addressable patient population. In NSCLC, we have observed monotherapy activity of CAN- 2409 in a Phase phase 1 biomarker
focused, window of opportunity clinical trial. In 2020, we initiated a Phase-phase 2 clinical trial evaluating CAN- 2409 in
combination with PD- (L) 1 checkpoint inhibitors for patients with inadequate response to PD- (L) 1 ICI. This open - label
clinical trial <del>, as was originally</del> amended to <del>, is targeting ----</del> target enrollment of approximately 80 patients with stage III / IV
NSCLC in two separate cohorts. The cohorts are defined based on response to ICI at the time of enrollment. Cohort 1 addresses
patients with stable disease at enrollment. Cohort 2 enrolls patients with progressive disease after at least 18 weeks of ICI
treatment. Patients will continue treatment with their initial checkpoint inhibitor and CAN- 2409 will be added to their regimen.
The primary efficacy endpoint endpoints for this trial is are tumor response as measured by RECIST criteria including overall
response rate (ORR) and or disease control rate (DCR). We reported initial data from this trial at the ASCO Annual Meeting in
June 2022 and during our Research and Development Day in December 2022. These data were further supported in an
update announced in September 2023, based on a data cutoff of August 1, 2023. In this September 2023 announcement
we presented updated data showing which showed evidence of local and systemic anti-tumor activity; a DCR of 77 % (20 / 26)
in patients entering the trial with disease progression (cohort 2); sustained and ongoing clinical responses greater than 1 year;
favorable change in the trajectory of tumor progression; decreased tumor size of RECIST target lesions in most patients; reduced
uninjected tumor size in 14 / 21 patients (67 %); an overall response rate of 13 % (4 / 30) across cohorts 1 and 2; durable disease
stabilization translating into encouraging preliminary evidence of progression- free survival; consistent induction of local and
systemic cytotoxic T cell response; increased infiltration of CD8 T cells in the tumor microenvironment; systemic expansion of
effector T cells and increase in soluble granzyme B levels in the peripheral blood; and a favorable safety / tolerability data with
most treatment- related adverse events being grade 1/2. In December 2023, the recruitment of this study was paused as we
completed target enrollment for cohort 2. We received FDA fast track designation for CAN- 2409 plus valacyclovir in
combination with pembrolizumab in order to improve survival or delay progression in patients with stage III / stage IV
in NSCLC who are resistant to first line PD- (L) 1 inhibitor therapy and who do not have activating molecular driver
mutations or have progressed on directed molecular therapy in April 2023. We anticipate presenting additional updated
topline overall survival data from this ongoing clinical trial in the third second quarter of 2023-2024. We have initiated a
randomized Phase 2 clinical trial evaluating CAN-2409 in borderline- resectable panereatic adenocarcinoma. In March 2023, in
connection with our cost management and dynamic portfolio management initiatives, we elected to pause new enrollment in this
randomized Phase 2 clinical trial, subject to additional funding. Despite the pause in patient enrollment, we continue to expect to
present initial clinical data in the fourth quarter of 2023. In a previous Phase phase 1b trial, patients with pancreatic cancer
treated with CAN- 2409 in addition to SoC standard of care demonstrated a greater survival duration over the expected survival
of the patients treated with the existing SoC standard of care alone in a comparison to historical trial results. Furthermore, in the
group of patients where pre- and post- treatment tumor biopsies were available, a statistically significant increase in the number
of CD8 tumor infiltrating lymphocytes was observed . We have initiated a randomized phase 2 clinical trial evaluating
CAN- 2409 in borderline- resectable pancreatic adenocarcinoma. In March 2023, in connection with our cost
management and dynamic portfolio management initiatives, we elected to pause new enrollment in this randomized
phase 2 clinical trial, subject to additional funding. Despite the pause in patient enrollment, we presented initial clinical
data in the fourth quarter of 2023. The initial data showed prolonged and sustained survival in patients treated with
CAN- 2409 but not in the control arm, We observed a separation of the survival curves with an estimated survival rate of
71 % in the treatment arm, compared to 16. 7 % in the control arm at both 24 and 36 months after treatment. We
received FDA fast track designation for CAN- 2409 plus prodrug (valacyclovir) for the treatment of patients with PDAC
to improve overall survival in December 2023. We expect to present an update of the survival data in the second quarter
of 2024. Our second viral immunotherapy platform is based on a novel, next generation, genetically modified HSV that induces
tumor specific oncolysis. The HSV- based platform enables generation of both replication- competent and replication- defective
viral product candidates as well as capacity to clone, in the vector, up to five transgenes that will allow us to optimize our virus
profile for different tumor settings. CAN- 3110, our first HSV- based product candidate, has been engineered for enhanced
specificity and tumor cell killing, while minimizing toxicity on healthy tissue. CAN-3110 was formerly known as rQNestin34.
5v. 2. An investigator- sponsored <del>Phase <mark>phase + 1b</mark> c</del>linical trial is ongoing with CAN- 3110 in our initial target indication of
recurrent HGG and we reported additional biomarker results in November 2021. During our Research and Development Day in
December 2022, we presented updated data demonstrating that the treatment was well tolerated, with no observed dose-limiting
toxicity; produced a median overall survival (. This was further supported during an oral presentation at the ASGCT
Annual Meeting in May of 2023, where we reported mOS <del>)</del> of 11. <del>6-8</del> months in arm A and 12. 0 months in arm B with a
single dose ;, based on a data cutoff date of April 20, 2023. Additionally, the data showed evidence of immune activation
and persistent HSV-1 antigen and HSV-1 replication consistent with the mechanism of action . Clinical and biomarker data
for the first 41 patients treated with a single injection of CAN-3110 were published in Nature in October 2023. The FDA
has granted fast track designation to CAN- 3110 for the treatment of patients with recurrent HGG to improve overall
<mark>survival in February 2024</mark> . We are currently evaluating the effects of multiple doses of CAN- 3110 in recurrent HGG
supported by the Break Through Cancer foundation. Based on the molecular targeting of CAN-3110, we believe that it could be
evaluated in an expanded range of indications in the future, such as other neurologic tumors, melanoma, sarcoma,
gastrointestinal stromal tumors, thyroid tumors, and breast cancer. In addition, we are pursuing novel discovery programs based
on our enLIGHTEN TM Discovery Platform . In November 2023, during the SITC 2023 Annual Meeting, we presented two
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posters describing the key elements of the platform and the development of the first experimental agent from the
enLIGHTEN TM Discovery Platform. This first agent, Alpha- 201 Macro1, is an investigational viral immunotherapy
designed to interfere with the CD47 / SIRPa pathway and activate innate immune surveillance. Results demonstrated
monotherapy activity following local administration in a preclinical model of lung cancer. Additional preclinical data
presented at SITC confirmed the capability of the enLIGHTEN TM Advanced Analytics suite to predict optimal gene
payload combinations to arm viral vectors, that enable the design of potential combination therapeutics to overcome
tumor resistance especially in cancers resistant to ICI treatment. In March 2024, we announced the acceptance of an
abstract at AACR 2024 Annual Meeting related to the second candidate from our enLIGHTEN TM Discovery Platform, a
first- in- class multimodal immunotherapy for induction of tertiary lymphoid structures as a novel therapeutic strategy
for solid tumors. Market Opportunity The four indications where we have the most advanced clinical trials are localized
prostate cancer, NSCLC, pancreatic cancer, and recurrent HGG. These types of cancer present substantial market opportunities
and are also enabling indications for future expansion into other solid tumors. Localized Prostate Cancer Prostate cancer is the
second leading cause of cancer deaths in men in the United States, representing a high level of medical burden and unmet need.
The prostate cancer therapy market is estimated to grow to over $ 16. 1 billion by 2026. Approximately 200, 000 men in the
United States are diagnosed with prostate cancer annually, with more than 30, 000 deaths each year. Although most deaths
occur in patients with later stage metastatic disease, most prostate cancer patients roughly 150, 000 annually in the United States
are initially diagnosed in the early stage of disease, of which roughly 105, 000 are considered to have intermediate- or high-risk
of progression and approximately 45, 000 are considered to be low-risk. For the intermediate- and high-risk patients, the SoC
standard of eare-is radical prostatectomy and radiotherapy often in conjunction with androgen deprivation therapy or chemical
castration. These treatments have a high incidence of potentially life altering side effects, including incontinence and erectile
dysfunction. There is therefore a significant unmet need for a novel treatment able to forestall or prevent progression to later
stages of disease without the burdensome side effects associated with the current SoC standard of eare. Weighing the balance
between therapeutic efficacy and side effects linked to therapy, about 10 % of the intermediate- risk patients, and approximately
40 % of the low-risk patients decide, in consultation with their physicians, to adopt a close monitoring approach known as
active surveillance that involves periodic imaging, biomarker evaluation and biopsies. SoC Standard of eare-in this early,
localized setting, leaves substantial need unaddressed. As a result of PSA screening programs, most patients are diagnosed at
early stages of disease with low grade, low volume, asymptomatic prostate cancer. Current screening methods are inadequate to
definitively identify which patients are most likely to progress. As a result of these--- the side effects and complications from
currently available treatments, there is a large desire to delay or prevent the need for radical treatment. As a result, many men
with prostate cancer meeting the National Comprehensive Cancer Network (NCCN) guidelines for low-risk prostate cancer
choose not to be treated and to undergo an intense monitoring program, known as Active Surveillance (AS), as their preferred
initial course of treatment. However, within 10 years of diagnosis, between 21 % and 38 % of men will have developed
progressive cancer and require invasive treatments. It has been reported that 21 % and 41 % of patients initially under AS
convert to active treatment based on progression of their disease within two and five years, and approximately 17 % of men
undergoing AS choose to move to active treatments within 10 years of diagnosis, even in the absence of any evidence of
progression, underscoring the level of anxiety that patients experience when they carry a diagnosis of untreated prostate
concern - cancer around progression and the significant unmet need in this early line of treatment. To our knowledge, the only
FDA- approved pharmacologic intervention indicated for newly diagnosed localized prostate cancer is chemical castration
therapy, also known as ADT. Soc Standard of eare-for localized disease is primarily surgery, radiotherapy and / or ADT.
Because ADT has a potentially severe side effect profile, including impotence, hot flashes, mood changes, depression, impact
on quality of life, and others, these hormone treatments are reserved only for those patients that present the highest risk of
localized or metastatic prostate cancer. Similarly, surgical prostatectomy can often cause urinary dysfunction and sexual
dysfunction that can last years and sometimes be permanent. Approximately one-third of men with normal baseline function
will report some an increase in urinary symptoms and urgency after prostatectomy and most men will experience some erectile
dysfunction after treatment with either surgery or radiation. We believe CAN- 2409 could provides provide a significant
commercial opportunity for therapeutic use in the newly diagnosed, localized prostate cancer patient population, with the goal
of reducing progression or recurrence of disease without significant toxicities and with a product that can be administered at
outpatient facilities. Non-Small Cell Lung Cancer-In recent years ICI, specifically PD- 1 directed agents, have transformed the
treatment paradigm of NSCLC and become a backbone therapy for this indication. Over a half dozen ICI products have been
approved in various cancer indications, and there are numerous other related drug candidates in preclinical and clinical
development. Global sales for ICIs in 2019 were approximately $ 23 billion with NSCLC accounting for 50 % to 55 % of
overall sales. The commercial opportunity in NSCLC is significant. Drug treated patient populations in the US for 2020 are
estimated at 75, 160; 47, 920 and 21, 990 in first-, second- and third- line treatment, respectively. ICI use in NSCLC has become
SoC standard of care with approximately 49 % of first-line patients in the United States being treated with an ICI alone or in
combination with other agents. Nonetheless, 60 % of these patients will have an inadequate response after one year of ICI
treatment, and 80 % after three years. We believe CAN- 2409 could provide a significant commercial opportunity for
therapeutic use in NSCLC patients with an inadequate response to ICI, if we are able to demonstrate overall survival of
more than 12-14 months after treatment per protocol. The American Cancer Society estimates that approximately 64, 050
people in the United States (33, 130 men and 30, 920 women) will be diagnosed with pancreatic cancer in 2023; about 50, 550
people (26, 620 men and 23, 930 women) will die of pancreatic cancer this year. Treatment is with surgery in cases where
tumors are resectable, followed by adjuvant chemoradiation; there is increasing use of neoadjuvant chemoradiation in borderline
resectable or even resectable disease in order to better reduce the risk of recurrence. For resected patients, while surgery and
adjuvant approaches (e. g. FOLFORINOX) have improved mOS median overall survival, 5 year survival rates remain modest
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(20- 30 %) and most tumors will recur (median recurrence free survival ~ 1.5 years). While there is a high level of total clinical
research and development activity across pancreatic cancer settings (over 150 investigational products in Phase phase 2 or later
development), the majority are targeting metastatic disease. Physicians have identified a continued unmet need for more
effective treatment options across the pancreatic cancer setting, including a need for further approaches which can increase the
resectability of borderline / locally advanced patients, and improving cure rates in resected patients. There are an estimated 18,
510 patients with resectable disease, with a sizeable proportion receiving surgery and adjuvant therapy; there are 12, 340
patients with borderline resectable disease and 30, 850 with locally advanced tumors (with the majority undergoing neoadjuvant
/ induction treatment) in the US/EU5. We believe CAN-2409 could provide a significant commercial opportunity for
therapeutic use in borderline resectable pancreatic cancer patients, if we are able to confirm the improvement in overall
survival two years after initiation of treatment in patients who received CAN- 2409 combined with SoC compared to SoC
alone. High- Grade Glioma Glioblastoma, the most common form of HGG, is a relatively rare cancer with first-line drug
treated prevalent population in the United States of approximately 16, 113 patients. Treatment in the upfront setting is surgical
resection, if possible, coupled with temozolomide and / or radiotherapy; however, virtually all patients eventually develop
recurrent disease. The prognosis for glioblastoma that has recurred is dire; mOS median overall survival with second line
chemotherapy such as lomustine is associated with mOS median overall survival of 6-9 months. Few pharmaceutical treatment
options exist for patients with recurrent HGG, with the last significant FDA approval over a decade ago. Avastin was approved
in 2009, specifically for patients with recurrent glioblastoma, and approval was granted despite the absence of a survival benefit
in the registrational studies. New agents to treat patients with recurrent HGG are urgently needed. We believe CAN-3110
provides a significant opportunity for therapeutic use in recurrent HGG based on the results published in Nature in
October 2023, showing nearly doubling of the expected mOS after just a single injection of CAN-3110. Our Product
Candidates Lead Initial Product Candidate- CAN- 2409 We believe the adenovirus- based CAN- 2409 has advantageous
properties that differentiate from other viral immunotherapies. Namely, CAN- 2409: • Has consistently shown activity in clinical
trials across a range of solid tumor types. • Has been dosed in hundreds of more than a thousand patients and has generated
favorable tolerability and safety data. • Is engineered to be potently immunogenic but non- replicating with the goal of
maximizing the eliciting a systemic anti- tumor immune response while minimizing the risk for local and systemic toxicity.
Can be stored at 4 °C, facilitating the use of CAN-2409 in out-patient clinics. This aspect is particularly favorable in
indications such as prostate cancer, where patients are often monitored in individual private practices. CAN- 2409 (international
non-proprietary name: aglatimagene besadenovec) is an adenovirus- based replication- defective engineered gene construct
encoding the thymidine kinase gene derived from the herpes simplex virus. It is injected directly into the a tumor or target
tissue. Localized injection is intended to minimize systemic toxicities associated with systemic intravenous administration,
eliminating the requirement for complex immune evasion or tumor- specific targeting mechanisms, and focuses-reprograms the
immune response locally against the injected tumor, while also activating the desired systemic anti-tumoral immune response
against the injected tumor and uninjected metastases. The adenoviral vector is used to transport the HSV-thymidine kinase gene
into the tumor cells at the site of injection. HSV- thymidine kinase converts generic, FDA- approved anti- herpes drugs, such as
ganciclovir, acyclovir and valacyclovir, which we use as prodrugs, into a toxic nucleotide analogue. These agents are widely
available, inexpensive and are generally well-tolerated. Cells transduced with the HSV-thymidine kinase gene as well as
neighboring cells that are replicating or exhibit DNA damage undergo immunogenic cell death after exposure to these
systemically administered prodrugs that are converted in the tumor microenvironment into toxic metabolites. The prodrug-
derived cytotoxic nucleotide analogs are designed to inhibit DNA replication and repair, leading to the death of multiplying
tumor cells, and in particular of cells undergoing repair from radiation or chemotherapy damage. This form of cell death is
immunogenic and exposes tumor antigens that can elicit a further tumor- specific immune response. Additionally, the virus
itself stimulates a marked immuno- inflammatory response. Key pro- inflammatory cytokines as well as chemokines, adhesion
molecules and costimulatory molecules are locally upregulated, resulting in an inflamed (hot) tumor microenvironment, able to
further enhance CD8 cytotoxic <del>T tumor infiltrating lymphocyte</del> cell activation and immunization against <mark>various</mark> released
tumor antigens. This local effect provides a strong mechanistic rationale for the combination of viral immunotherapy with ICIs
such as PD- 1 or PD- L1 targeting antibodies. ICI agents work by unmasking the inhibitory signals provided by PD- L1 ligands
on tumor cells when bound to PD-1 receptors on T cells. By blocking this suppressive signal pharmacologically, it has been
demonstrated that T cells can be unleashed to attack cancer cells and that profound clinical benefit can be achieved, but this
benefits only a minority of patients. It has been hypothesized that treatment results can be significantly improved by optimizing
recognition of the specific tumor antigens by the patient's adaptive immune system using viral immunotherapy combined with
the non-specific stimulation of T cells induced by ICI treatment. It appears that a duality of signals is required: releasing the
checkpoint inhibition as described earlier, coupled with the provision of a positive, stimulatory signal to T cells. The efficient
presentation of tumor specific antigens by MHC class I molecules to the immune system provides just such a specific,
stimulatory signal. Viral immunotherapies have been shown to facilitate such cross presentation of tumor antigens and are
therefore an attractive complement to PD- 1 or PD- L1 checkpoint blockade. The immune system is highly dynamic, with
continuous trafficking of different populations of immune cells throughout the body. One outcome of this is that when T cells
are locally activated and trained reprogrammed to recognize tumor- specific antigens, they can act systemically to drive an
efficient immune response at sites distant from the original tumor. This abscopal effect may explain the significant effects
observed at distant, uninjected sites demonstrated in experimental models of cancers. Abscopal effect has been shown with
CAN-2409 in a mouse model of prostate cancer. The model employed RM-1, a syngeneic prostate cell line, that was implanted
both in the flanks of the mice as well as systemic, via a tail vein injection to mimic metastatic disease, resulting in the
emergence of lung tumor nodules. After intratumor treatment of the flank tumor masses with either CAN-2409 and systemic
prodrug, alone or in combination with radiotherapy, we observed a beneficial response in both injected and uninjected
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metastatic tumor. Use of CAN-2409 resulted in a 38 % mean reduction in tumor volume and, in the combination arm, a reduction of 61 % in tumor volume. Notably, the average number of lung nodules was reduced from 20. 5 in the control arm and 22. 4 in the mice that received radiotherapy to 13. 0 in the CAN-2409 arm, and to 6. 6 when CAN-2409 was combined with radiotherapy. We have also observed the abscopal response in connection with the experimental treatment of CAN-2409 in patients with NSCLC. We observed regression of uninjected lesions in about two-thirds of evaluable patients presenting with multiple lesions. The activity of CAN- 2409 treatment has been shown to be dependent on CD8 T cell involvement in studies in mouse models that evaluated permutations of CAN- 2409 treatment and T cell depletion. Furthermore, T cells from mice that were successfully treated with CAN- 2409 and prodrug were shown to be sufficient to inhibit tumor growth when mixed with AKR tumor model cells and implanted subcutaneously in mouse flanks. This activity was not observed with T cells from untreated mice, from mice that were treated with a control vector that lacked the thymidine kinase gene, or when the AKR tumor cells were xenografted alone. These data are consistent with a T cell dependent mechanism of action of CAN- 2409. Additionally, we have shown the induction of CD8 T cell infiltration at the site of the tumor in patients with prostate cancer, pancreatic cancer, and NSCLC. Second Product Candidate- CAN- 3110 CAN- 3110 is a modified HSV with specific properties that can be leveraged in diverse clinical indications. Namely, CAN-3110: Is engineered to provide oncolysis through replication specifically in Nestin expressing cancer cells. • Has demonstrated statistically significant survival benefit in preclinical models of brain cancer. • Has generated favorable tolerability and safety data, not reaching a dose limiting toxicity in the dose range tested in an ongoing investigator- sponsored Phase-phase 1-1b trial. • Has shown a clinical signal in a difficult to treat brain cancer population, critically defined by a highly immunosuppressive environment. • Has been engineered to replicate in a range of other indications characterized by Nestin expression. • Is derived from our HSV- based platform that also provides the potential to support expansion of our pipeline with novel agents. CAN- 3110 is an engineered HSV where the expression of ICP34. 5, the gene responsible for viral replication, has been placed under the control of a tumor- specific Nestin promoter. Nestin is a cytoskeletal protein that is overexpressed in glioma cells, but it is absent in the healthy adult brain. In CAN-3110, ICP34. 5 expression is controlled by the Nestin promotor enabling viral replication selectively in tumor cells. This replicationcompetent HSV construct provides tumor-specific cytolytic activity, while sparing healthy cells that do not express Nestin. This modification of the viral genome of CAN-3110 enables us to maintain the function of ICP34. 5, an HSV protein that allows virus replication even in the presence of a suppressive interferon response, under strict control and only in tumor cells. ICP34. 5 is deleted in other HSV oncolytic viruses that may be less tumor selective with an intent of achieving a favorable safety profile, which may result in viruses characterized by poor replication ability and a limited ability to generate an effective anti-tumor immune response. Our Clinical Trials CAN- 2409 for Prostate Cancer We have completed multiple Phase phase 1 and Phase phase 2 clinical trials in non- metastatic prostate cancer using CAN- 2409 as monotherapy and in combination with SoC standard of care. These trials generated favorable tolerability and safety data and also provide evidence to support CAN-2409 immune activation, dosing levels and schedules. We have administered CAN- 2409 to about 900 more than 700 patients with localized prostate cancer to date, most of whom are currently in ongoing, placebo- controlled randomized trials. Monotherapy Activity We have observed what we believe to be a clinical response with CAN- 2409 as monotherapy in our Phase phase 1 trials. These responses have been consistently observed in patients with prostate cancer, including patients with newly diagnosed, localized disease, as well as those whose cancer was progressing even after radiotherapy. In newly diagnosed patients with localized prostate cancer, analysis of biopsies following monotherapy CAN- 2409 treatment revealed a change in glandular architecture, necrosis and increased immune cell infiltration as compared to baseline biopsy. We observed in treated samples a 4- fold increase in the number of CD8 T cells and a 3- fold increase in the number of CD68 macrophages, demonstrating <mark>an</mark> immune response after CAN- 2409 administration. In another Phase phase 1 / 2 clinical trial, patients whose prostate cancer had progressed following radiotherapy and that presented a persistently rising PSA level, were treated with CAN-2409 as monotherapy using six dose levels, ranging from 1x108 – 1x1011 viral particles. In 27 of the 36 patients recruited, a decrease in PSA levels was observed following a single cycle of CAN- 2409, as measured by the best PSA decrease in serial assessments within the first 3 months after treatment. PSA, while an imperfect biomarker for prostate cancer, is still widely employed for patient management in conjunction with biopsy, as rising PSA levels, and in particular PSA doubling time are associated with disease progression. In that same trial, we observed that the PSA doubling time improved significantly (p = 0. 0271) from 15. 9 months at baseline to 42. 5 months after a single cycle of CAN- 2409 administration, in this treatment resistant patient population. A subset of the patients in this trial also received second or third injection courses of CAN- 2409. In most of those patients, a decrease from pre-administration PSA levels was again observed upon repeated injection. Combination Therapy Because of the increasing prevalence of combination therapy for cancer patients, the ability to combine novel agents with SoC standard of care treatments without overlapping toxicity is of increasing importance. We believe that the favorable tolerability and safety data generated for CAN-2409 in our clinical trials is encouraging for our current and future development plans, in combination with other agents but also as a monotherapy in lower risk patient populations that are not willing to undergo more aggressive forms of treatment. The safety data from our Phase phase 2 clinical trial in prostate cancer patients treated with CAN- 2409 in combination with SoC standard of care of radiotherapy or androgen deprivation therapy, reported no grade 4 treatment- related adverse events and only single- patient incidence of grade 3 treatment related adverse events. It was anticipated that flu-like symptoms would be evident, because CAN- 2409 is an adenoviral gene construct known to induce a systemic immune response. Greater than 50 % of patients reported fever and / or chills often associated with viral immune activation. These symptoms, which generally manifested early and transiently, often occurred on the evening of the intratumoral administration of CAN-2409 and resolved by the following morning. The rates of the gastrointestinal adverse events in this study are consistent with those typically reported by patients undergoing radiotherapy, which is a component of SoC standard of care in this population. Our previous Phase phase 2 clinical trial data informed our agreement with the FDA under the SPA for our ongoing Phase phase 3 clinical trial. Although the data is limited as we have not conducted head- to-

head studies, in our Phase phase 2 clinical trial we observed that intermediate- risk patients who received CAN- 2409 in combination with radiotherapy had failure rates that were 75 % lower than those reported in four other contemporaneous trials of similar patient populations. Where these other clinical trials reported freedom from failure rates of between 75 %- 79 %, corresponding to cumulative recurrence rates of 21 %- 25 %, CAN- 2409 resulted in a 5 % recurrence rate in patients with intermediate- risk prostate cancer. The median follow- up of patients who received CAN- 2409 in this clinical trial was 5.7 years. Similarly, results in this clinical trial also demonstrated reduced recurrence rates in the low- and high- risk patients enrolled when compared to these other trials. Furthermore, a pathological complete response (pCR) was observed in 93 % of the biopsies available at 2yrs (37 %- 73 % in control populations). In this trial, low-risk patients achieved a PSA of < 2ng / ml in 77 % of CAN- 2409 treated patients versus 58 % in control populations. The endpoint used in our Phase phase 2 trial was freedom from failure (FFF), defined by the period of time between treatment and the occurrence of a clinical or biochemical failure. Under the SPA agreement, we have selected disease- free survival (DFS) as the endpoint for our Phase phase 3 clinical trial. The DFS definition requires an objective detection of tumor progression. This largely overlaps with FFF as it is often triggered by detection of increased PSA levels (i. e., biochemical failure). We have also reanalyzed our previous Phase phase 2 data using DFS parameters, supporting the implementation of DFS as endpoint in our Phase phase 3 trial. Potentially Registrational Phase 3 Clinical Trial for Localized Prostate Cancer We are developing CAN- 2409 as a potential therapeutic option that avoids the long- term severe side effects of hormone therapy or surgical interventions. Based on the data from our clinical trials to date, we believe that CAN- 2409 has the potential, if approved, to be the first new first-line product candidate approved for patients with localized prostate cancer in over 30 years. We are currently conducting a potentially registrational Phase phase 3 trial for CAN-2409, with agreement, under an SPA with the FDA for a single pivotal trial in newly diagnosed localized prostate cancer in intermediate and high- risk patients in combination with the SoC standard of care-, radiotherapy. This Phase phase 3 clinical trial is fully enrolled with 711 patients, randomized 2: 1. Patients receive three investigational treatment courses of CAN- 2409, each consisting of four concurrent injections of transrectal or transperineal ultrasound guided administration of CAN- 2409 followed by a course of oral valacyclovir. The first injection course is given at least 15 days but not more than 8 weeks before starting radiation. The second injection course is given 0-3 days prior to radiotherapy. The third and final injection course is delivered 15-22 days after the second injections. A fixed dose of valacyclovir is given for 14 days after each CAN-2409 administration. SoC Standard of care external beam radiotherapy is administered to patients throughout the course of the trial with optional ADT as determined by the treating physician. Trial inclusion criteria are based on patients with localized prostate cancer meeting the NCCN criteria of intermediate- risk or patients presenting only one NCCN high- risk feature. NCCN intermediate- risk is defined as having at least one of the following: prostate serum antigen (PSA) of 10-20 ng/ml, Gleason Score of 7, and is staged T2b- T2c via the TNM staging system. Patients may also exhibit one high- risk characteristic that may consist of a PSA of 20 ng/ml, a Gleason Score of 8-10, or a cancer that is up to stage T3a, but not more than one of these highrisk factors. The SPA agreement specifically defines agreement with the FDA on the statistical design and power of the Phase phase 3 trial, as well as the primary endpoint definition. The SPA states that the trial is adequately designed to provide the necessary data that, depending on the outcome, could support a Biologics License Application (BLA) submission. The SPA does note the general point for all SPAs, that BLA acceptance and approvability are review issues and that a BLA approval will depend on the quality of actual clinical trial data, the robustness of the effect on the stated primary endpoint, the impact on the secondary endpoints, a favorable assessment of the study conduct, and analysis of safety information and other supportive data. We have approximately 50 active clinical sites for this clinical trial and have completed enrollment in September 2021 with 711 patients. The primary endpoint for the clinical trial is DFS. This trial has been designed to have 90 % power, a hazard ratio of 0. 5 and an alpha of 0, 05. We are assuming a 15 % improvement in the active arm (CAN-2409) as compared to placebo in the rate of events measured according to the DFS definition provided above. We expect topline data from this **Phase phase** 3 clinical trial at-in the end-fourth quarter of 2024. Phase 2 Clinical Trial for Active Surveillance Clinical results to date suggest that CAN- 2409 as monotherapy may reduce the rates of biochemical failure for patients with localized prostate cancer. In the AS setting, we will assess whether CAN- 2409 has the potential to delay or prevent tumor progression to a later stage that demands radical treatment. In May 2019, the Company completed enrollment of 187 patients in its Phase phase 2 clinical trial of CAN-2409 in patients with low- to- intermediate- risk, localized, non- metastatic prostate cancer, randomized 2: 1. The primary endpoint is biopsy- proven progression- free survival (PFS). Progression is defined as an increase in Gleason grade or increase in tumor volume to > 33 %. As the primary endpoint is event-driven, in February 2023, based on a blinded review of the event rate, the Company determined that additional time is required for patient follow up in order to collect a sufficient number of events. Based on the current rate of events, the Company currently anticipates topline data to be available in the fourth quarter of 2024. CAN- 2409 for Non- Small Cell Lung Cancer (NSCLC) To assess the potential for CAN- 2409 to trigger local and systemic immune activation and produce a "hot" tumor phenotype, we designed and completed a clinical trial in patients with surgically resectable lung cancer. In this proof of mechanism Phase phase 1 clinical trial, dose escalation of intratumoral neoadjuvant CAN- 2409 was followed by tumor resection three weeks later. The specific goal was to obtain biological data to better understand the impact of CAN- 2409 on the tumor microenvironment, with a specific focus on intratumoral CD8 T-tumor **infiltrating lymphocyte** cell activation and function while **also** assessing **the** effects on the systemic immune response. The effects of CAN- 2409 were evaluated by comparing post- injection specimens to an internal control consisting of each patient's own pre- treatment needle biopsy and blood samples, and an external cohort of matched patients who underwent standard surgical resection without CAN- 2409. The results showed evidence of significant intratumoral and systemic immune activation after experimental CAN- 2409 monotherapy treatment. Analysis of peripheral blood mononuclear cells, both before and after CAN-2409 administration, demonstrated a significant increase in expression of proliferation and activation markers including HLA- DR, CD38 and Ki67 three weeks after CAN- 2409 initiation. Other relevant findings in this clinical trial included an increase in markers of T cell activation such as PD-1 and CTLA-4, which are targets of ICI that have been approved for use in

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NSCLC. In this NSCLC Phase phase 1 clinical trial, two patients experienced grade 3 dehydration with renal insufficiency, two
patients presented grade 3 urinary retention and six patients were observed to have a grade 4 low lymphocyte count. Of
significant interest, one patient, a 70 year- old male with a 14. <mark>8 8cm - cm</mark> stage IIIA sarcomatoid carcinoma, exhibited a nearly
50 % decrease in tumor volume at 3 weeks after CAN-2409 monotherapy treatment. Collectively, these results lead us to
believe that CAN- 2409 could provide an opportunity to improve ICI response rates in patients with NSCLC by eliciting
additional immune activation in lung cancer patients. CAN- 2409 and Checkpoint Combination Phase 2 Clinical Trial for
NSCLC in Patients with Inadequate Response to ICI In 2020, we initiated a <del>Phase-phase</del> 2 clinical trial of CAN- 2409 in
NSCLC patients with inadequate response to ICI that <del>will has <mark>enroll enrolled</mark> patients receiving <mark>SoC <del>standard of care</del>-I</mark>CI (plus</del>
chemotherapy if indicated) in combination with two courses of CAN-2409 plus continued ICI. This open label clinical trial, as
amended, targeted is targeting enrollment of approximately 80 patients with stage III / IV NSCLC in two separate cohorts. The
cohorts are defined based on response to ICIs at the time of enrollment. Cohort 1 addresses patients with stable disease and
Cohort 2 enrolled patients with progressive disease after at least 18 weeks of ICI treatment. Patients will continue
treatment with their initial ICI and CAN- 2409 was will be added to their regimen. The primary efficacy endpoint endpoints for
this trial is are response rate measured by RECIST and / or Disease Control Rate, with overall survival as a key study
endpoint. We reported initial data from this trial at the ASCO Annual Meeting in June 2022. During our Research and
Development Day in December 2022 . These data were further supported in an update announced in September 2023,
based on a data cutoff of August 1, 2023, where we presented updated data demonstrating evidence of local and systemic anti-
tumor activity; a disease control rate of 77 % (20 / 26) in patients entering trial with disease progression (cohort 2); sustained and
ongoing clinical responses greater than 1 year; favorable change in the trajectory of tumor progression; decreased tumor size of
RECIST target lesions in most patients; reduced uninjected tumor size in 14 / 21 patients (67 %); an overall response rate of 13
% (4/30) across cohorts 1 and 2; durable disease stabilization translating into encouraging preliminary evidence of progression-
free survival; consistent induction of local and systemic cytotoxic T cell response; increased infiltration of CD8 T cells in the
tumor microenvironment; systemic expansion of effector T cells and increase in soluble granzyme B levels in the peripheral
blood; and favorable safety / tolerability data with most treatment- related adverse events being grade 1 / 2. In December 2023,
the recruitment of this study was paused as we completed target enrollment for cohort 2. We anticipate presenting
additional updated topline overall survival data from this ongoing Phase phase 2 clinical trial in the third second quarter of
2023-2024. CAN- 2409 for Pancreatic Cancer We are currently conducting a randomized Phase 2 clinical trial for CAN- 2409
in borderline resectable panereatic cancer, with a target enrollment of up to 54 patients. In March 2023, in connection with our
eost management and dynamic portfolio management initiatives, we elected to pause new enrollment in this randomized Phase 2
elinical trial, subject to additional funding. Despite the pause in patient enrollment, we continue to expect to present initial
elinical data in the fourth quarter of 2023. In a previous Phase 1b clinical trial, patients with pancreatic cancer treated with
CAN-2409 in addition to SoC standard of care-demonstrated a greater survival duration over the expected survival of the
patients treated with the existing SoC standard of care alone in a comparison to historical trial results. Furthermore, in the subset
of patients where pre- and post- treatment tumor biopsies were available, a statistically significant increase in the number of
CD8 tumor infiltrating lymphocytes was observed. In addition, the study demonstrated that CAN- 2409 was generally well-
tolerated in combination with Soc. We are currently conducting a randomized phase 2 clinical trial of CAN-2409 in
borderline resectable pancreatic cancer, with a target enrollment of up to 54 patients. In March 2023, in connection with
our cost management and dynamic portfolio management initiatives, we elected to pause new enrollment in this
randomized phase 2 clinical trial, subject to additional funding. Despite the pause in patient enrollment, we presented
initial clinical data in the fourth quarter of 2023, based on a data cutoff date of August 21, 2023. The initial data showed
prolonged and sustained survival in patients who were treated with CAN- 2409 and there was a separation of the
survival rates in the treatment and placebo arms. Estimated survival was 71, 4 % when 2-3 CAN- 2409 courses were
added to standard neoadjuvant chemoradiotherapy followed by attempted surgical resection compared to 16.7% with
standard neoadjuvant chemoradiotherapy followed by attempted surgical resection alone at both 24 and 36 months after
treatment. We expect to present an update to this survival data in the second quarter of eare 2024. CAN- 2409 for High-
Grade Glioma Phase 3 Clinical Trial of CAN- 2409 in High- Grade Glioma At our Research & Development Day in December
2022 we announced that we have made a portfolio and resource prioritization decision to pursue CAN-3110 in recurrent HGG,
but not to pursue a Phase phase 3 clinical trial of CAN- 2409 in high- grade glioma. The CAN- 3110 program in recurrent HGG
may serve as an enabling clinical trial for future expansion into earlier stages of HGG as well as other solid tumors outside the
brain that are characterized by Nestin expression. Phase 1 Clinical Trial of CAN- 2409 With Opdivo in High- Grade Glioma We
conducted a <del>Phase <mark>phase +1b</mark> clinical trial in patients with newly diagnosed HGG examining the combination of CAN- 2409</del>
and anti-PD-1 nivolumab (Opdivo, BMS) in collaboration with BMS and Adult Brain Tumor Consortium. This was the first
clinical trial to evaluate the combination of CAN- 2409 and nivolumab in HGG patients with the goal of enhancing anti-tumor
T cell activation and expansion and the potential for better clinical outcome. Data for this Phase phase 1-1b clinical trial were
presented at the 37th Annual Meeting of Society for Immunotherapy of Cancer (SITC) in Boston in November 2022. In the trial
involving 35 evaluable patients, extensive biomarker analyses demonstrated that the combination of CAN- 2409 and nivolumab
resulted in a statistically significant expansion of activated tumor- fighting CD4 and CD8 T cells effector cells as well as
decreased markers of exhaustion on effector cells. Proteomic analysis by OLINK revealed an increase in pro- inflammatory
cytokines, including interferon- gamma, the chemokines CXCL9 / 10 and CXCL11, MCP- 1, MCP- 3, and granzyme A.
Systemic immune activation was observed after the single administration of CAN- 2409, prior to initiation of nivolumab (week
3 post treatment). Median overall survival (mOS) for patients with methylated MGMT promoter was 30. 6 months for those
who underwent gross total resection (GTR) (n = 10) and 12. 6 months for those who underwent sub- total resection (STR) (n = 10)
5), mOS for patients with unmethylated MGMT was 13, 2 months (GTR) (n = 16) and 15, 9 months (STR) (n = 4), respectively.
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Phase 1b / 2 Clinical Trial of CAN- 2409 Combined with <mark>SoC Standard of Care in High- Grade Glioma In our Phase <mark>phase</mark> 1b /</mark> 2 clinical trial in newly diagnosed patients with HGGs, including the difficult- to- treat glioblastoma, CAN- 2409 demonstrated a statistically significant increase in patient survival when combined with current SoC standard of care over the current SoC standard of eare-alone (surgery, radiation and temozolomide). The trial compared the overall survival of 48 enrolled patients treated at 4 clinical sites with CAN- 2409 plus SoC standard of care against a matched controlled set of 134 patients enrolled at MGB who received only SoC standard of eare. The results demonstrated that the mOS median overall survival of patients receiving SoC standard of care alone was 13.5 months while patients receiving CAN-2409 plus SoC standard of care was 17.1 months (p = 0.0417). Importantly, a pre-planned analysis on a subset of patients treated surgically with gross total resection (> 95 % of tumor removed) during surgery (18 patients compared to 44 in the control arm), demonstrated a mOS median overall survival of 25. 1 months in the CAN-2409 arm versus 16. 3 months in the SoC standard of care group, with approximately a 50 % improvement (p = 0.0120). In this patient population, after three years, one in three patients was alive in the CAN-2409 arm compared to 1 in 20 patients in the SoC standard of care group. At the end of the study, three of the patients who received CAN-2409 were alive without progression after 43, 62. 1 and 88. 5 months. CAN-2409 was generally well tolerated, with most treatment- related adverse events being grade 1 or 2, and few reports of grade 3 or 4 events. Opportunities for CAN-2409 in Other Cancer Indications In addition to patients with prostate, lung, pancreatic, and brain cancer, CAN- 2409 has been dosed in small early- stage exploratory clinical trials in patients with ovarian cancer, malignant pleural effusion, pediatric brain cancer and retinoblastoma, supporting the tolerability and safety profile described above. CAN-3110 for Recurrent High- grade Glioma Our first HSV- based product candidate, CAN-3110, is in an ongoing investigator- sponsored Phase phase 1-1b clinical trial in recurrent HGG. This is an open-label, single center, dose-escalation clinical trial in patients who have failed SoC standard of care. The primary endpoint objective of this clinical trial is to analyze the safety of CAN-3110 use in patients with recurrent HGG. No dose- limiting toxicities were observed in doses ranging from 1x106 to 1x1010 PFU in half- log increments. 51-More than 50 patients have been treated. Immunohistology studies showed persistent presence of HSV antigen and infiltration by CD8 cytotoxic tumor infiltrating lymphocytes post treatment, providing support for the expected mechanism of action of CAN-3110. We are particularly encouraged by the clinical course of a few patients who received a single injection with CAN-3110 as monotherapy upon recurrence of glioblastoma. One patient, originally diagnosed with multicentric glioblastoma and initially treated with SoC standard of care surgical resection followed by temozolomide and radiotherapy has been treated with CAN- 3110 monotherapy, upon recurrency with development of two lesions visualized on MRI. One lesion, in the frontal region, had developed at the site of the initially resected mass. The second, larger mass was a new lesion. The patient received CAN-3110 via stereotactic administration into the injected lesion. At day 56 post-injection, there was a visible decrease in the volume of both masses. By day 112 post-injection, the volume of both masses was further reduced and the patient was able to go back to work. The patient eventually developed a third lesion, experienced a stroke secondary to a diagnostic procedure, and refused further treatment, dying approximately 15 months after entering the trial. A second patient initially diagnosed with methylated grade IV HGG located in the temporal lobe underwent 2 consecutive resections and treatment with chemoradiation for rapid progressive disease. The patient was injected with CAN-3110 (10E8 pfus), at the site of the original lesion. An MRI scan performed at day 91 showed increased enhancement at the site of injection. The patient underwent an additional resection, but, importantly, histological report showed mainly inflammatory tissue with high density of tumor infiltrating lymphocytes. The patient did not have detectable disease, in absence of any additional treatment for more than 2 years and passed away as passenger of a motor vehicle accident on day 717 post CAN-3110 treatment. Another patient, originally diagnosed with grade IV astrocytoma, was treated with CAN-3110 for a recurrence following first-line therapy with subtotal resection, chemoradiation and adjuvant temozolomide. At time of recurrence, a mass was evident in the left frontal lobe. The patient was enrolled in arm B of the **Phase phase** 1 clinical trial which includes treatment with Cytoxan (24 mg/kg one dose day- 2) prior to CAN- 3110 injection. Post- treatment scan demonstrated progressive reduction in enhancement with cavitary necrosis at the site of injection. The patient remains clinically stable as of February 2023-2024 and has not required additional therapies up-in the to-two years day 350-post CAN-3110 treatment. We find these case reports to be encouraging because of the unusually favorable disease course experienced by these patients with recurrent HGG who had previously failed SoC standard of care treatment, in absence of concurrent therapies. Additionally, we have observed a mOS median overall survival of 11. 6-8 months in the Phase phase 1-1b trial in the first 41 patients as of the cutoff date of October April 20, 2022 2023 . This data was confirmed in an independent cohort of 9 patients (cohort B; mOS 12. 0 months). Prolonged survival after CAN- 3110 treatment was associated with HSV-1 seropositivity as well as with changes in T cell fractions and TCRβ diversity. Given the mOS median overall survival of less than 6-9 months in historical clinical trials of other investigational agents in patients with recurrent HGG, who have failed SoC standard of care treatment we believe this is encouraging evidence of clinical activity. We expect will continue to assess report additional data, including the potential benefits from multiple injections of CAN- 3110 in this, from the ongoing phase 1b clinical trial in the second half of 2024. Collaborations and Other Transactions We are a party to various license and collaboration agreements under which we license patents, patent applications and other intellectual property to and from third parties. These licenses impose various diligence and financial payment obligations on us. We expect to continue to enter into these types of license agreements in the future. We consider the following license and collaboration agreements to be material to our business: Periphagen. On December 9, 2019, we entered into a series of agreements, including an exclusive license agreement, a novation agreement, an equipment purchase agreement and an intellectual property assignment agreement, collectively the Periphagen Agreements, with Periphagen, whereby we acquired certain assets and licensed certain rights (including specified patent rights and know- how, or the Licensed IP Rights) of Periphagen, primarily consisting of exclusive rights to their technology platform and a portfolio of pre-clinical, development stage virus vectors, as well as certain physical property and equipment. The primary classes of assets are HSVderived assets expressing neurotrophin- 3 (or NT- 3 Assets) and other HSV- derived assets (Gene Transfer Neuro- Assets).

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multiple tiers under the Licensed IP Rights to conduct research and to develop, make, have made, use, have used, offer for sale,
have sold, export and import products incorporating the Licensed IP Rights in all fields of use except the treatment, diagnosis,
and prevention of nononcologic skin diseases and conditions (including use as an aesthetic). In addition, pursuant to the
Periphagen Agreements, we undertook certain commitments and obligations, including the assumption of Periphagen's
outstanding loan in the principal amount of $1,000,000 with Diamyd Medical, AB. The promissory note has a contractual
interest rate of 2 % compounded annually, with the outstanding balance and accrued interest due upon maturity in November
2027, with no interim installments. In consideration for the licenses under the Periphagen Agreements, we paid Periphagen $
811, 000 upon signing and agreed to make the following royalty and other payments: • NT- 3 Assets: a single digit percentage of
net sales of NT- 3 Assets, or, if applicable, a percentage of royalties received by us in the event of a license, sublicense,
assignment or other transfer to a third party for commercialization (but no greater than the original royalty percentage we would
be required to pay in the event we did not license, sublicense, assign or transfer NT- 3 Assets); • Gene Transfer Neuro- Assets: a
single digit percentage of net sales of Gene Transfer Neuro- Assets, or, if applicable, a percentage of royalties received by us in
the event of a license, sublicense, assignment or other transfer to a third party for commercialization to treat certain conditions
and diseases (but no greater than the original royalty percentage we would be required to pay in the event we did not license,
sublicense, assign or transfer Gene Transfer Neuro- Assets); • Combination Products: a certain percentage (based on the
weighted average sale price of NT- 3 Assets, or Gene Transfer Neuro- Assets, as applicable) of net sales of combination
products; and • Disposition Income: (i) a single digit royalty rate of certain consideration we receive for the grant of a license,
assignment or other intellectual property rights related to the NT- 3 Assets and (ii) if we consummate a strategic collaboration
with certain specified parties to treat non-oncolygic neurological conditions and diseases, either 2nd decile (if consummated
within 18 months) or mid- 2nd decile to mid- 3rd decile (if consummated thereafter) royalty rates of certain consideration we
receive for the grant of a license, assignment or other intellectual property rights related to the Gene Transfer Neuro- Assets. If
we are required to pay royalties to a third party on any product covered under the Periphagen Agreements, we may credit such
royalty payments against the royalties owed to Periphagen in the applicable country, up to a percentage reduction in the mid-
2nd decile. The exclusive license agreement with Periphagen (the Periphagen License Agreement) requires us to use
commercially reasonable efforts to complete a human proof of concept clinical trial of an NT- 3 Asset, which includes certain
specified clinical milestones. If we fail to use such efforts, subject to dispute and escalation provisions in the Periphagen License
Agreement, then we may submit a specified payment in lieu of satisfying such obligations. If we fail to do so, Periphagen may
terminate the Periphagen License Agreement for material breach. On December 15, 2022, Periphagen notified us by letter of
its <del>provided notice purporting to terminate the Periphagen License Agreement claiming ---- claim that</del> we have failed to use
commercially reasonable efforts to complete a human proof of concept clinical trial of an NT- 3 Asset under an Exclusive
License Agreement dated December 9, 2019 between us and Periphagen (the "Periphagen License Agreement"). On
January 13, 2023, we filed a demand for arbitration against Periphagen with the American Arbitration Association,
seeking a declaration that Periphagen' s December 15 letter failed to comply with the dispute and escalation provisions
in the Periphagen License Agreement. On March 10, 2023, Periphagen filed its answer and counterclaims to our demand
for arbitration. In its counterclaims, Periphagen sought a declaration that we have not used commercially reasonable
efforts to complete a human proof of concept clinical trial of the NT-3 Asset and a declaration that any further extension
<mark>of time would not be scientifically or commercially reasonable</mark> . We <del>have denied Periphagen's elaim and counterclaims. On</del>
June 7, 2023, the parties <mark>entered into are engaged in the dispute and- an amendment to escalation provisions under</mark> the
Periphagen Exclusive License Agreement that resolved the dispute and resulted in termination of the arbitration. See Part
I, Item 3 "Legal Proceedings". The Periphagen License Agreement expires on the later of December 9, 2069 or the end of the
Royalty Term. Upon expiration, we will have a fully paid-up, non-exclusive license to make, use, sell, offer for sale and import
any products that incorporate the Licensed IP Rights. The Royalty Term means, on a product-by-product and country-by-
country basis, the period starting on the first commercial sale of such product in such country and concluding on the later of (i)
expiration of patent coverage under the Licensed IP Rights or regulatory exclusivity for such product in such country; or (ii) the
date that a certain amount of generic competition exists in such country, provided that no Royalty Term shall exceed 30 years.
The Periphagen License Agreement may be terminated (i) by us for convenience upon 90 days' prior written notice to
Periphagen, (ii) by Periphagen if we remain in breach of the Periphagen Agreement following a cure period to remedy the
breach or (iii) by Periphagen if we become bankrupt, file for bankruptcy or otherwise become insolvent or are placed in
receivership. Mass General Brigham (MGB). On January 20, 2018, we entered into an exclusive option agreement (the Option
Agreement) with MGB. Pursuant to the Option Agreement, we obtained the exclusive right from MGB to negotiate an exclusive
worldwide, royalty- bearing license to develop and commercialize products covered by certain MGB patents, including those
patents covering CAN-3110, in the field of gene therapy and vector therapy for the treatment or prevention of cancerous tumors
in humans or animals, as such field is further detailed in the Option Agreement (Licensed Field). In consideration for MGB's
granting of the exclusive option, we paid MGB a non-refundable fee of $ 40,000. Under the Option Agreement, we were
required to use reasonable efforts to enter into a clinical trial agreement with MGB. We entered into such clinical trial agreement
with MGB (MGB Clinical Trial Agreement) on June 19, 2018. Under the MGB Clinical Trial Agreement, we have committed to
remitting up to $ 750, 000 for the performance of a specified Phase phase 1 clinical trial by MGB pursuant to a protocol
summary contained in the Option Agreement. On September 15, 2020, we exercised our option and entered into an exclusive
patent license agreement with MGB (the MGB License Agreement). Under the MGB License Agreement, MGB granted to us
(a) an exclusive, royalty- bearing license under certain of MGB's patents to make, have made, use, have used, sell and have sold
certain products covered by such licensed patents (the Licensed Products) and otherwise practice processes covered by such
licensed patents (Licensed Processes); and (b) a non-exclusive, royalty-bearing license under certain other of MGB's patents to
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Under the license agreement, Periphagen granted us a worldwide exclusive license with the right to grant sublicenses through

make, have made, use, have used, sell and have sold Licensed Products, but not to sell or have sold Licensed Processes. The foregoing rights are sublicensable, subject to sublicensing terms set forth in the MGB License Agreement. In connection with executing the MGB License Agreement, we paid a license issue fee of \$ 100, 000. We also agreed to reimburse MGB for all reasonable fees and expenses MGB had incurred and will incur for the preparation, filing, prosecution and maintenance of the licensed patent rights, in an amount equal to \$141, 268. Under the MGB License Agreement, we are required to use commercially reasonable efforts to develop and make available to the public Licensed Products in the Licensed Field, which efforts include certain milestones detailed in the MGB License Agreement. Under the MGB License Agreement, prior to the first commercial sale of the Licensed Products, we are required to pay MGB an annual license fee beginning on the fourth anniversary of the effective date. Following the first commercial sale of the Licensed Products, we are required to pay MGB an annual minimum royalty, which amount may be credited against earned royalties starting in the fourth year following the first commercial sale. In addition to such annual license fee and royalty obligations, the MGB License Agreement contains cumulative milestone payments for up to a maximum amount of \$ 39,000,000, upon the achievement of various clinical, commercial and sales milestones of clinical and commercial development and sales, certain of which milestones apply to development and sale of any Licensed Product as a monotherapy and certain of which milestones apply to development and sale of any Licensed Product in combination with another therapy modality for the treatment of solid tumors. We are required to pay royalties to MGB upon first commercial sale of the Licensed Products, which are paid at an increasing rate as net sales increase, ranging from low single digits to high single digits. We also agreed to pay a single digit royalty rate on net sales of any products developed using certain MGB know- how but which is not covered by the licensed patent rights, or derived products. We may reduce our royalty obligations to MGB on any product (but not derived products) by an agreed- upon percentage if we are required to pay a royalty to a third party to avoid patent infringement claims in respect of our development and commercialization of Licensed Products. The royalty rate paid to MGB may not fall below a pre- specified percentage for the sale of any product and another percentage for the sale of any derived product. Our obligation to pay royalties to MGB expires on a country- by- country basis on the latest of (i) the date upon which there ceases to be a valid claim of patent rights as further detailed in the MGB License Agreement in such country, (ii) expiration of statutory or regulatory exclusivity in such country and (iii) 10 years after the first commercial sale. The MGB License Agreement also requires us to pay a percentage of any nonroyalty income attributable to the sublicense, including (i) 2nd decile rates if such sublicense occurs prior to dosing the first patient in a Phase-phase 2 trial, (ii) 1st decile rates if such sublicense occurs after dosing the first patient in a Phase phase 2 trial but before approval of a BLA by the FDA (or the equivalent approval and regulatory body in another major market country) and (iii) single digit rates if such sublicense occurs after approval of a BLA by the FDA (or the equivalent approval and regulatory body in another major market country). The MGB License Agreement expires on the latest of (i) the 10th anniversary of the first commercial sale in the last country which has a commercial sale, (ii) the date on which all relevant issued patents and filed patent applications have expired or been abandoned and (iii) upon the expiration of market exclusivity on the applicable product. The MGB License Agreement may be terminated by MGB (i) if we fail to pay any amounts owed under the terms of the agreement within a specified cure period, (ii) if we fail to maintain insurance in accordance with the MGB License Agreement, (iii) if we file for bankruptcy, or (iv) if we remain in default of the MGB License Agreement for non-financial reasons following a specified cure period to remedy the breach. The MGB License Agreement may be terminated by us for convenience upon 90 days' prior written notice. Ventagen. On March 1, 2014, we entered into an exclusive license agreement (the Ventagen Agreement), with Ventagen, LLC (Ventagen). The Ventagen Agreement provides Ventagen an exclusive license, with rights to grant sublicenses (subject to certain terms and conditions) under any worldwide patent rights and know- how owned or controlled by us during the term of the Ventagen Agreement which cover applicable technology utilizing the delivery method of the herpes derived TK protein to tumors or other tissues via a viral vector (as further specified therein), to research, use, have used, import, have imported, export, have exported, offer for sale, have sold, sell, distribute and market certain products for the prevention or treatment of cancer in humans and any use in animals (or the Field of Use) (Licensed Products), for commercial sale and distribution within Mexico, Belize, Guatemala, Honduras, El Salvador, Costa Rica, Nicaragua, Panama, Colombia and Bolivia (or the Territory). Under the Ventagen Agreement, Ventagen agreed to use commercially reasonable efforts to develop and commercialize Licensed Products in the Territory in the Field of Use. Ventagen agreed to pay us \$ 1,000,000 for research and development, which we received in 2014 and 2015, and agreed to pay us a fixed future milestone payment of \$ 2, 500, 000 upon Ventagen's achievement of a specified amount of sales of a Licensed Product, which is subject to certain reductions for our direct cost over a specified threshold. Ventagen also agreed to purchase all of its clinical and commercial supply of Licensed Products from us required for clinical or commercial purposes at a price of cost plus a specified increase of the wholesale price of the Licensed Products, subject to a minimum and maximum price, through the end of the Royalty Term, which is defined as the period commencing on the effective date of the Ventagen Agreement and ending on a country-by-country basis on the later of (i) the last expiration date of the patent rights covering a Licensed Product, (ii) twelve years from the receipt of marketing authorization of the Licensed Product in the applicable country, or (iii) the date a generic version of a Licensed Product that is manufactured, owned or controlled by a third party is granted a market authorization. If we are unable or unwilling to manufacture supply under the terms of the Ventagen Agreement, Ventagen has the right to manufacture its own supply and will be required to pay to us a fixed fee per dose sold by Ventagen, its affiliates, agents, sublicensee or end users. We have also agreed to provide certain services to Ventagen related to Ventagen's development plan. The Ventagen Agreement expires on the date of the expiration of the final Royalty Term in all countries in the Territory. The Ventagen Agreement may be terminated (i) by Ventagen at will upon 30 days' prior written notice to us, (ii) by us subject to a specified notice period if Ventagen files for bankruptcy or becomes insolvent or (iii) by us if Ventagen remains in material breach of the Ventagen Agreement following notice and a cure period to remedy the breach. Ventagen retains an irrevocable, perpetual, paid up, royalty- free license, with rights of sublicense to use, have used, lease, import and export, offer to sell, sell, have sold, product,

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distribute and market Licensed Products in each country in the Territory after the expiration of the Royalty Term in such
country. Certain of our current stockholders own 49.5 % of the voting stock of Ventagen, but we do not hold any management
position or run the day- to- day operations of Ventagen. See "Certain Relationships and Related Person Transactions."
Competition The development and commercialization of new product candidates is highly competitive. We face competition
from major pharmaceutical, specialty pharmaceutical and biotechnology companies among others with respect to CAN-2409
and CAN-3110 and will face similar competition with respect to any product candidates that we may seek to develop or
commercialize in the future. We compete in pharmaceutical, biotechnology and other related markets that develop immuno-
oncology therapies for the treatment of cancer. There are other companies working to develop viral immunotherapies for the
treatment of cancer including divisions of large pharmaceutical and biotechnology companies of various sizes. The large
pharmaceutical and biotechnology companies that have commercialized and / or are developing immuno- oncology treatments
for cancer include AstraZeneca, Bristol- Myers Squibb, Gilead Sciences, Merck & Co., Novartis, Pfizer and Genentech. Some
of the products and therapies developed by our competitors are based on scientific approaches that are the same as or similar to
our approach, including with respect to the use of viral immunotherapy with adenovirus and HSV. Other competitive products
and therapies are based on entirely different approaches. We are aware that Oncorus, Inc., Replimune Group, Inc., Amgen Inc.,
Astellas Pharma, Inc, Istari Oncology Inc, Orca Therapeutics, B. V., CG Oncology, Inc, ImmVira Co., Ltd., IconOVir Bio, Inc.,
and FerGene, Inc., among others, are developing viral immunotherapies that may have utility for the treatment of indications
that we are targeting. 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. Many of the companies we compete against or may compete against 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 and biotechnology industries may result in the concentration of even more resources 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, in establishing clinical trial sites and enrolling subjects for our
clinical trials and in acquiring technologies complementary to, or necessary for, our programs. We could see a reduction or
elimination of our commercial opportunity if our competitors develop and commercialize products that are safer, more effective,
have fewer or less severe side effects, or are more convenient or are less expensive than any products that we or our
collaborators may develop. Our competitors also may obtain FDA or foreign regulatory approval for their products more rapidly
than we may obtain approval for ours, which could result in our competitors establishing a strong market position before we are
able to enter the market. The key competitive factors affecting the success of all our product candidates, if approved, are likely
to be their efficacy, safety, convenience and price, if required, the level of biosimilar or generic competition and the availability
of reimbursement from government and other third- party payors. Commercialization We intend to retain significant
development and commercial rights to our product candidates and, if marketing approval is obtained, to commercialize our
product candidates on our own, or potentially with a partner, in the United States and other regions. We currently have no sales,
marketing or commercial product distribution capabilities and have no experience as a company commercializing products. We
intend to build the necessary infrastructure and capabilities over time for the United States, and potentially other regions,
following further advancement of our product candidates. Clinical data, the size of the addressable patient population, the size
of the commercial infrastructure and manufacturing needs, and partnering opportunities may all influence or alter our
commercialization plans. We have established an operations leadership team with extensive experience in manufacturing
biologics based on viruses, including viral immunotherapy products and gene therapy products, and in the construction,
validation, approval and operation of facilities designed to manufacture biologics. We have secured a third- party contract
manufacturing organization for clinical and commercial-scale manufacturing of our CAN-2409 and CAN-3110 product
candidates. We are also currently evaluating various options for the clinical-scale manufacture of our CAN-3110 product
candidate, including the development of clinical-scale manufacturing capabilities at our own facility. Intellectual Property We
believe that approval of our CAN- 2409 and CAN- 3110 product candidates under a BLA may result in 12 years of data
exclusivity in the United States under the Patient Protection and Affordable Care Act, as amended by the Health Care and
Education Reconciliation Act (collectively the ACA), 10 years of market exclusivity in Europe and significant durations in other
markets, which would be complementary to any relevant patent exclusivity. With regard to patent exclusivities, we have or are
pursuing patent protection for our CAN- 2409 and CAN- 3110 product candidates and our enLIGHTEN TM Discovery
Platform. With regard to our CAN- 2409 product candidate, we own a United States patent and a pending patent
application that relate to a method of use of CAN- 2409 in combination with an immune checkpoint inhibitor. The issued
patent and the pending application, if issued, are expected to expire in 2034. With regard to our CAN- 3110 product
candidate, we have rights to issued composition of matter patents in the United States, Australia, Canada, China, Europe, and
Japan and patent applications pending in Australia, Europe, and Korea that relate to CAN-3110. The issued patents and the
pending applications, if issued, are expected to expire in 2036. This patent family is exclusively licensed to us from MGB. We
also own a United States patent In addition, we have entered into and an option agreement with MGB to a pending U.S.
provisional patent application that relates relates to the a method of use of biomarkers for the selection of cancer patients for
treatment with CAN- <del>2409-3110 and for the management of treatment regimens</del> in <del>combination with a checkpoint inhibitor</del>
<mark>cancer patients receiving CAN- 3110</mark> . The <del>issued term of patents claiming priority to the provisional</del> patent <del>and the</del>
pending application, if issued, are expected to expire in 2034—2044. With regard We also have in-licensed from Periphagen
patents and patent applications relating to our enLIGHTEN TM Discovery Platform . These, we have exclusively in-licensed
from Periphagen a patent family that includes composition of matter patents in the United States, Europe, and China
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and pending applications in the United States and China that relate to and - an HSV vector used in our enLIGHTEN ™ Discovery Platform. The issued patents and the pending applications, if issued, are expected to expire between in 2037. In addition, we own a pending international patent application filed under the Patent Cooperation Treaty with composition of matter claims that also relate to and- an HSV vector and candidate payloads used in our enLIGHTEN TM Discovery Platform and methods of use. The term of patents claiming priority to the international patent application, if issued, are expected to expire in 2042-2043. We also own a pending U. S. provisional patent application that relates to methods of treating certain cancer patients using our HSV vector. The term of patents claiming priority to the provisional patent application, if issued, are expected to expire in 2044. Government Regulation In the United States, biological products are subject to regulation under the Federal Food, Drug, and Cosmetic Act (FD & C Act) and licensure under the Public Health Service Act (PHS Act), and other federal, state, local and foreign statutes and regulations. The FD & C Act and corresponding regulations govern, among other things, the research, development, clinical trial, testing, manufacturing, quality control, approval, safety, efficacy, labeling, packaging, storage, record keeping, distribution, reporting, marketing, promotion, export and import, advertising, post-approval monitoring, and post-approval reporting involving biological products. The process of obtaining regulatory approvals and the subsequent compliance with appropriate federal, state, local and foreign statutes and regulations require the expenditure of substantial time and financial resources and we may not be able to obtain the required regulatory approvals. Further, even if we obtain the required regulatory approvals for our products, pharmaceutical companies are subject to myriad federal, state, and foreign healthcare laws, rules, and regulations governing all aspects of our operations, including, but not limited to, our relationships with healthcare professionals, healthcare institutions, distributors of our products, and sales and marketing personnel; governmental and other third- party payor coverage and reimbursement of our products; and data privacy and security. Such laws, rules, and regulations are complex, continuously evolving, and, in many cases, have not been subject to extensive interpretation by applicable regulatory agencies or the courts. We are required to invest significant time and financial resources in policies, procedures, processes, and systems to ensure compliance with these laws, rules, and regulations, and our failure to do so may result in the imposition of substantial monetary or other penalties by federal or state regulatory agencies, give rise to reputational harm, or otherwise have a material adverse effect on our results of operations and financial condition. United States Biological Products Development Process The process required by the FDA before a biological product candidate may be licensed for marketing in the United States generally involves the following: • completion of nonclinical laboratory tests and animal studies performed in accordance with FDA's good laboratory practices (GLPs) requirements and applicable requirements for the humane use of laboratory animals or other applicable regulations; • submission to the FDA of an application for an investigational new drug application (IND) which must become effective before human clinical trials may begin; • approval of the protocol and related documentation by an IRB or ethics committee at each clinical trial site before each trial may be initiated; • performance of adequate and well- controlled human clinical trials according to good clinical practices (GCPs) requirements and any additional requirements for the protection of human research subjects and their health information, to establish the safety and efficacy of the proposed biological product candidate for its intended use; • preparation of and submission to the FDA of a BLA for marketing approval that includes sufficient evidence of establishing the safety, purity, and potency of the proposed biological product for its intended indication, including from results of nonclinical testing and clinical trials; • a determination by the FDA within 60 days of its receipt of a BLA to accept and file the application; • satisfactory completion of an FDA pre-license inspection of the manufacturing facility or facilities where the biological product is produced to assess compliance with current good manufacturing practices (cGMPs) to assure that the facilities, methods and controls are adequate to preserve the biological product's identity, strength, quality and purity; • satisfactory completion of an FDA advisory committee review, if applicable; • potential FDA audit of the nonclinical study and clinical trial sites that generated the data in support of the BLA in accordance with any applicable expedited programs or designations; • payment of user fees for FDA review of the BLA (unless a fee waiver applies); and • FDA review and approval, or licensure, of the BLA to permit commercial marketing of the product for specific indications for use in the United States. Pre-clinical Studies and the IND Process Before testing any biological product candidate in humans, the product candidate enters the preclinical testing stage. Preclinical tests, also referred to as nonclinical studies, include laboratory evaluations of the product's biological characteristics, chemistry, toxicity and formulation, as well as animal studies to assess the potential safety and activity of the product candidate. The conduct of the preclinical tests must comply with federal regulations and requirements including GLPs. Prior to commencing an initial clinical trial in humans with a product candidate in the United States, an IND must be submitted to the FDA and the FDA must allow the IND to proceed. An IND is an exemption from the FD & C Act that allows an unapproved product candidate to be shipped in interstate commerce for use in an investigational clinical trial and a request for FDA allowance that such investigational product may be administered to humans in connection with such trial. Such authorization must be secured prior to interstate shipment and administration. In support of a request for an IND, the clinical trial sponsor must submit the results of the preclinical tests, together with manufacturing information, analytical data, any available clinical data or literature and a proposed clinical protocol -to the FDA as part of the IND. An IND must become effective before human clinical trials may begin. Once submitted, the IND automatically becomes effective 30 days after receipt by the FDA, unless the FDA places the IND on a full or partial clinical hold within that 30- day time period. In such a case, the IND sponsor and the FDA must resolve any outstanding concerns before the clinical trial or part of the study can begin. Submission of an IND therefore may or may not result in FDA authorization to begin a clinical trial. The FDA also may impose clinical holds on a sponsor's IND at any time before or during clinical trials due to, among other considerations, unreasonable or significant safety concerns, inability to assess safety concerns, lack of qualified investigators, a misleading or materially incomplete investigator brochure, study design deficiencies, interference with the conduct or completion of a study designed to be adequate and well- controlled for the same or another investigational product, insufficient quantities of investigational product, lack of effectiveness, or non-compliance. If the FDA imposes a clinical hold, studies may not recommence without

FDA authorization and then only under terms authorized by the FDA. Clinical trials involve the administration of the biological product candidate to healthy volunteers or patients under the supervision of qualified investigators, generally physicians not employed by or under control of the trial sponsor. Clinical trials are conducted under protocols detailing, among other things, the objectives of the clinical trial, dosing procedures, subject selection and exclusion criteria, and the parameters and criteria to be used to monitor subject safety, including stopping rules that assure a clinical trial will be stopped if certain adverse events should occur. Each protocol and any amendments to the protocol must be submitted to the FDA as part of the IND. Clinical trials must be conducted and monitored in accordance with the FDA's regulations comprising the GCP requirements, including the requirement that all research subjects provide informed consent. 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 trial at least annually. The IRB must review and approve, among other things, the trial protocol and informed consent information to be provided to trial subjects. An IRB must operate in compliance with FDA regulations. 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 product candidate has been associated with unexpected serious harm to patients. Some trials are overseen by an independent group of qualified experts organized by the trial sponsor, known as a data safety monitoring board or committee (DSMB). This group provides authorization as to whether or not a trial may move forward at designated check points based on access that only the group maintains to available data from the trial and may recommend halting the clinical trial if it determines that there is an unacceptable safety risk for subjects or other grounds, such as no demonstration of efficacy. Certain information about certain clinical trials must also be submitted within specific timeframes to the NIH for public dissemination on its ClinicalTrials. gov website. Clinical trials typically are conducted in three sequential phases that may overlap or be combined: • Phase 1. The biological product candidate is initially introduced into healthy human subjects and tested for safety. In the case of some products for severe or lifethreatening diseases, especially when the product may be too inherently toxic to ethically administer to healthy volunteers, the initial human testing is often conducted in patients. These studies are designed to test the safety, dosage tolerance, absorption, metabolism and distribution of the biological product candidate in humans, the side effects associated with increasing doses, and, if possible, to gain early evidence of effectiveness. • Phase 2. The biological product candidate is evaluated in a limited patient population with a specific disease or condition 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, optimal dosage and dosing schedule. Multiple Phase **phase** 2 clinical trials may be conducted to obtain information prior to beginning larger and more expensive Phase phase 3 clinical trials. • Phase 3. The biological product candidate is administered to an expanded patient population to further evaluate dosage, clinical efficacy, potency, and safety, generally at multiple geographically dispersed clinical trial sites. These clinical trials are intended to establish the overall risk / benefit ratio of the product candidate and provide an adequate basis for approval and product labeling. In March 2022, the FDA released a final guidance entitled " Expansion Cohorts: Use in First- In- Human Clinical Trials to Expedite Development of Oncology Drugs and Biologics," which outlines how developers can utilize an adaptive trial design commonly referred to as a seamless trial design in early stages of oncology biological product development (i. e., the first- in- human clinical trial) to compress the traditional three phases of trials into one continuous trial called an expansion cohort trial. Information to support the design of individual expansion cohorts are included in IND applications and assessed by FDA. Expansion cohort trials can potentially bring efficiency to biological product development and reduce developmental costs and time. In some cases, the FDA may require, or companies may voluntarily pursue, additional clinical trials after a product is approved to gain more information about the product. These post- approval clinical trials, sometimes referred to as **Phase phase** 4 clinical trials, may also be made a condition to approval of the BLA. Failure to exhibit due diligence with regard to conducting required Phase phase 4 clinical trials could result in withdrawal of approval for products. Concurrent with clinical trials, companies usually complete additional animal studies and also must develop additional information about the chemistry and physical characteristics of the biological product as well as finalize a process for manufacturing the product in commercial quantities in accordance with cGMP requirements. To help reduce the risk of the introduction of adventitious agents with use of biological products, the Public Health Service Act (PHS Act), emphasizes the importance of manufacturing control for products whose attributes cannot be precisely defined. The manufacturing process must be capable of consistently producing quality batches of the product candidate and, among other things, the sponsor must develop methods for testing the identity, strength, quality, potency and purity of the final biological product. Additionally, appropriate packaging must be selected and tested and stability studies must be conducted to demonstrate that the biological product candidate does not undergo unacceptable deterioration over its shelf life. Both the FDA and the EMA provide expedited pathways for the development of biological product candidates for the treatment of rare diseases, particularly life <mark>-</mark> threatening diseases with high unmet medical need. Such biological product candidates may be eligible to proceed to registration following a an early phase single clinical trial in a limited patient population, sometimes referred to as a Phase 1/2 trial, but which may be deemed a pivotal or registrational trial following review of the trial's design and, primary endpoints and results by the applicable regulatory agencies. Determination of the requirements to be deemed a pivotal or registrational trial is subject to the applicable regulatory authority's scientific judgement and these requirements may differ in the United States and the European Union. During all phases of clinical development, regulatory agencies require a sponsor assure extensive monitoring and auditing of all clinical activities, clinical data, and clinical trial investigators. Annual progress reports detailing the results of the clinical trials, particularly the safety information, must be submitted to the FDA. Written IND safety reports must be promptly submitted to the FDA and the investigators for serious and unexpected adverse events associated with the use of the study drug, and in some cases, any findings from other studies of the same drug, tests in laboratory animals or in vitro testing that suggest a significant risk for human subjects, or any clinically important increase in the rate of a serious suspected adverse reaction over that listed in the protocol or investigator brochure. The sponsor must submit an

IND safety report within 15 calendar days after the sponsor determines that the information qualifies for reporting. The sponsor also must notify the FDA of any unexpected fatal or life- threatening suspected adverse reaction within seven calendar days after the sponsor's initial receipt of the information. Regulatory authorities, the IRB or the sponsor may suspend a clinical trial at any time on various grounds, including a finding that the subjects are being exposed to an unacceptable health risk or that the trial is unlikely to meet its stated objectives. Some trials also include oversight by an independent group of qualified experts organized by the clinical trial sponsor, known as a data safety monitoring board, which provides authorization for whether or not a trial may move forward at designated check points based on access to certain data from the trial and may halt the clinical trial if it determines that there is an unacceptable safety risk for subjects or other grounds, such as no demonstration of efficacy. U. S. Review and Approval Processes Assuming successful the completion of all required testing in accordance with all applicable regulatory requirements, the results of product development, nonclinical studies and clinical trials are submitted to the FDA as part of a BLA requesting approval to market the product for one or more indications. The BLA must include results of product development, laboratory and animal studies, human clinical trials, information on the manufacture and composition of the product, proposed labeling and other relevant information. The testing and approval processes require substantial time and effort and there can be no assurance that the FDA will accept the BLA for filing and, even if filed, that any approval will be granted on a timely basis, if at all. Within 60 days following submission of the application, the FDA reviews athe BLA submitted submission to determine if it is substantially complete before the FDA accepts it for filing and full review. The FDA may refuse to file any BLA that it deems incomplete or not properly reviewable at the time of submission and may request additional information in a Complete Response letter. In this event, the BLA must be resubmitted with the additional information. The resubmitted application also is subject to review to determine if it is substantially complete before the FDA accepts it for filing. In most cases, the submission of a BLA is subject to a substantial application user fee, although the fee may be waived under certain circumstances. Under the performance goals and policies implemented by the FDA under the Prescription Drug User Fee Act (PDUFA) for original BLAs, the FDA targets ten months from the filing date in which to complete its initial review of a standard application and respond to the applicant, and six months from the filing date for an application with priority review. The FDA does not always meet its PDUFA goal dates, and the review process is often significantly extended by FDA requests for additional information or clarification <mark>and in some cases, convening of an Advisory Committee</mark> . This review typically takes twelve months from the date the BLA is submitted to the FDA because the FDA has approximately two months to make a "filing" decision. The review process and the PDUFA goal date may be extended by three months if the FDA requests or the BLA sponsor otherwise provides additional information or clarification regarding information already provided in the submission within the last three months before the PDUFA goal date. Once the submission is accepted for filing, the FDA begins an in-depth substantive review of the BLA. The FDA reviews the BLA to determine, among other things, whether the proposed product is safe, pure and potent for its intended use and whether the product is being manufactured in accordance with cGMP to ensure its continued safety, purity and purity. The FDA may refer applications for novel biological products or biological products that present difficult or novel questions of safety or efficacy to an advisory committee, typically a panel that includes clinicians and other experts, for review, evaluation and 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. During the biological product approval process, the FDA also will determine whether a Risk Evaluation and Mitigation Strategy (REMS) is necessary to assure the safe use of the biological product. If the FDA concludes a REMS is needed, the sponsor of the BLA must submit a proposed REMS; the FDA will not approve the BLA without a REMS, if required. Before approving a BLA, the FDA typically will inspect the facilities at which the product is manufactured. The FDA will not approve the product unless it determines that the manufacturing processes and facilities are in compliance with cGMP requirements and adequate to assure consistent production of the product within required specifications. Additionally, before approving a BLA, the FDA will typically inspect one or more clinical sites to assure that the clinical trials were conducted in compliance with IND trial requirements and GCP requirements. To assure cGMP and GCP compliance, an applicant must incur significant expenditure of time, money and effort in the areas of training, record keeping, production and quality control. Under the Pediatric Research Equity Act (PREA) a BLA or supplement to a BLA for a novel product (e. g., new active ingredient, new indication, etc.) must contain data to assess the safety and effectiveness of the biological product for the claimed indications in all relevant pediatric subpopulations and to support dosing and administration for each pediatric subpopulation for which the product is safe and effective. The FDA may grant deferrals for submission of data or full or partial waivers. Unless otherwise required by regulation, PREA does not apply to any biological product for an indication for which orphan designation has been granted. After the FDA evaluates a BLA and conducts inspections of manufacturing facilities where the investigational product and / or its drug substance will be produced, 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 will describe all of the deficiencies that the FDA has identified in the BLA, except that where the FDA determines that the data supporting the application are inadequate to support approval, the FDA may issue the Complete Response letter without first conducting required inspections, testing submitted product lots, and / or reviewing proposed labeling. In issuing the Complete Response letter, the FDA may recommend actions that the applicant might take to place the BLA in condition for approval, including requests for additional information or clarification. The FDA may delay or refuse approval of a BLA if applicable regulatory criteria are not satisfied, require additional testing or information and / or require post- marketing testing and surveillance to monitor safety or efficacy of a product. If a product receives regulatory approval, the approval may be significantly limited to specific diseases and dosages or the indications for use may otherwise be limited, including to subpopulations of patients, which could restrict the commercial value of the product. Further, the FDA may require that certain contraindications, warnings, precautions or interactions be included in the product labeling. The FDA may impose restrictions and conditions on product distribution, prescribing, or

dispensing in the form of a REMS, or otherwise limit the scope of any approval. The FDA also may condition approval on, among other things, changes to proposed labeling or the development of adequate controls and specifications. Once approved, the FDA may withdraw the product approval if compliance with pre- and post- marketing requirements is not maintained or if problems occur after the product reaches the marketplace. The FDA may require one or more Phase phase 4 post- market trials and surveillance to further assess and monitor the product's safety and effectiveness after commercialization, and may limit further marketing of the product based on the results of these post-marketing trials. In addition, new government requirements, including those resulting from new legislation, may be established, or the FDA's policies may change, which could impact the timeline for regulatory approval or otherwise impact ongoing development programs. Orphan Product Designation Under the Orphan Drug Act, the FDA may grant orphan designation to a biological product intended to treat a rare disease or condition, which is generally a disease or condition that affects fewer than 200, 000 individuals in the United States, or 200, 000 or more individuals in the United States and for which there is no reasonable expectation that the cost of developing and making a biological product available in the United States for this type of disease or condition will be recovered from sales of the product. Orphan product designation must be requested before submitting a BLA. After the FDA grants orphan product designation, the identity of the therapeutic agent and its potential orphan use are disclosed publicly by the FDA. Orphan product designation does not convey any advantage in or shorten the duration of the regulatory review and approval process. Orphan product designation entitles a party to financial incentives such as opportunities for grant funding towards clinical trial costs, tax advantages and user- fee waivers. If a product that has orphan product designation subsequently receives the first FDA approval for a particular active ingredient for the disease or condition for which it has such designation, the product is entitled to orphan product exclusivity, which means that the FDA may not approve any other applications, including a full BLA, to market the same biologic for the same indication for seven years, except in limited circumstances, such as a showing of clinical superiority to the product with orphan product exclusivity. Competitors, however, may receive approval of different products for the indication for which the orphan product has exclusivity or obtain approval for the same product but for a different indication for which the orphan product has exclusivity. Orphan product exclusivity also could block the approval of one of our products for seven years if a competitor obtains approval of the same biological product as defined by the FDA or if a product candidate is determined to be contained within the competitor's product for the same indication or disease. If a biological product designated as an orphan product receives marketing approval for an indication broader than what is designated, it may not be entitled to orphan product exclusivity. In addition, orphan drug exclusive marketing rights in the United States may be lost if the FDA later determines that the request for designation was materially defective or, as noted above, if the second applicant demonstrates that its product is clinically superior to the approved product with orphan exclusivity or the manufacturer of the approved product is unable to assure sufficient quantities of the product to meet the needs of patients with the rare disease or condition. Orphan drug status in the European Union (EU) has similar, but not identical, benefits. Expedited Development and Review Programs The FDA has various programs, including fast track designation, breakthrough therapy designation, accelerated approval and priority review, that are intended to expedite or simplify the process for the development and FDA review of drugs and biologics that are intended for the treatment of serious or life- threatening diseases or conditions. To be eligible for fast track designation, new drugs and biological product candidates must be intended to treat a serious or lifethreatening disease or condition and demonstrate the potential to address unmet medical needs for the disease or condition. Fast track designation applies to the combination of the product and the specific indication for which it is being studied. The sponsor of a new drug or biologic may request the FDA to designate the drug or biologic as a fast track product at any time during the clinical development of the product. One benefit of fast track designation, for example, is that the FDA may consider for review sections of the marketing application on a rolling basis before the complete application is submitted if certain conditions are satisfied, including an agreement with the FDA on the proposed schedule for submission of portions of the application and the payment of applicable user fees before the FDA may initiate a review. Under the FDA's breakthrough therapy program, a sponsor may seek FDA designation of its product candidate as a breakthrough therapy if the product candidate is intended, alone or in combination with one or more other drugs or biologics, to treat a serious or life- threatening disease or condition and preliminary clinical evidence indicates that it may demonstrate substantial improvement over existing therapies on one or more clinically significant endpoints, such as substantial treatment effects observed early in clinical development. Breakthrough therapy designation comes with all of the benefits of fast track designation. The FDA may take other actions appropriate to expedite the development and review of the product candidate, including holding meetings with the sponsor and providing timely advice to, and interactive communication with, the sponsor regarding the development program. A product candidate is eligible for priority review if it treats a serious or life-threatening disease or condition and, if approved, would provide a significant improvement in the safety or effectiveness of the treatment, diagnosis or prevention of a serious disease or condition. The FDA will attempt to direct additional resources to the evaluation of an application for a new drug or biological product designated for priority review in an effort to facilitate the review. Under priority review, the FDA's goal is to review an application in six months once it is filed, compared to ten months for a standard review. Priority review designation does not change the scientific / medical standard for approval or the quality of evidence necessary to support approval. With respect to oncology products, the FDA may review applications under Real- Time Oncology Review (RTOR) established by the FDA's Oncology Center of Excellence. RTOR, which allows an applicant to pre-submit components of the application to allow the FDA to review clinical data before the complete filing is submitted, aims to explore a more efficient review process to ensure that safe and effective treatments are available to patients as early as possible, while maintaining and improving review quality. Drugs considered for review under RTOR must, among other things, be likely to demonstrate substantial improvements on a clinically relevant endpoint (s) over available therapy, and must have easily interpreted endpoints. In addition, no aspect of the application should be likely to require a longer review time, such as, for example, a requirement for a new REMS. To determine eligibility for RTOR, the FDA requires top- line efficacy and safety results

from an applicant' s pivotal clinical trial (s), as well as completion of database lock for the clinical trial (s). The FDA will generally make a decision regarding acceptance into RTOR within twenty (20) business days of receipt of the request from the applicant. If an applicant is not accepted into RTOR, the applicant will follow routine application submission **procedures.** Additionally, a product candidate may be eligible for accelerated approval. Drug or biological products studied for their safety and effectiveness in treating serious or life-threatening illnesses and that provide meaningful therapeutic benefit over existing treatments may receive accelerated approval, which means that they may be approved on the basis of adequate and well- controlled clinical trials establishing that the product has an effect on a surrogate endpoint that is reasonably likely to predict a clinical benefit, or on the basis of an effect on an intermediate clinical endpoint other than survival or irreversible morbidity or mortality, that is reasonably likely to predict 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. As a condition of approval, the FDA generally requires that a sponsor of a drug or biological product receiving accelerated approval perform adequate and well- controlled post- marketing clinical trials, which must be conducted with due diligence, to verify the clinical benefit in relationship to the surrogate endpoint or ultimate outcome in relationship to the clinical benefit and, under the Food and Drug Omnibus Reform Act of 2022 (FDORA), the FDA may require, as appropriate, that such trials be underway prior to approval or within a specific time period after the date accelerated approval was granted. In addition, for products being considered for accelerated approval, the FDA generally requires, unless otherwise informed by the agency, that all advertising and promotional materials, intended for dissemination or publication be submitted to the agency for review. Under FDORA, the FDA has increased authority for expedited procedures to withdraw approval of a drug or indication approved under accelerated approval if, for example, the confirmatory trial fails to verify the predicted clinical benefit of the product. Post-Approval Requirements Rigorous and extensive FDA regulation of biological products continues after approval, particularly with respect to cGMP requirements, as well as requirements relating to record keeping, reporting of adverse experiences, periodic reporting, product sampling and distribution, and advertising and promotion of the product. Manufacturers of products are required to comply with applicable requirements in the cGMP regulations, including quality control and quality assurance and maintenance of records and documentation. Other post- approval requirements applicable to biological products, include reporting of cGMP deviations that may affect the identity, potency, purity and overall safety of a distributed product, record keeping requirements, reporting of adverse effects, reporting updated safety and efficacy information, and complying with electronic record and signature requirements. After a BLA is approved, the product also may be subject to official lot release. As part of the manufacturing process, the manufacturer is required to perform certain tests on each lot of the product before it is released for distribution. If the product is subject to official release by the FDA, the manufacturer submits samples of each lot of product to the FDA together with a release protocol showing a summary of the history of manufacture of the lot and the results of all of the manufacturer's tests performed on the lot. The FDA also may perform certain confirmatory tests on lots of some products, such as viral vaccines, before releasing the lots for distribution by the manufacturer. In addition, the FDA conducts laboratory research related to the regulatory standards on the safety, purity, potency, and effectiveness of biological products. Manufacturers must comply with the FDA's advertising and promotion requirements, such as those related to direct-toconsumer advertising, the prohibition on promoting products for uses or in patient populations that are not described in the product's approved labeling (known as "off-label use"), industry-sponsored scientific and educational activities, and promotional activities involving the internet. Discovery of previously unknown problems or the failure to comply with the applicable regulatory requirements may result in restrictions on the marketing of a product or withdrawal of the product from the market as well as possible civil or criminal sanctions. Failure to comply with the applicable U. S. requirements at any time during the product development process, approval process or after approval, may subject an applicant or manufacturer to administrative or judicial civil or criminal sanctions and adverse publicity. FDA sanctions could include refusal to approve pending applications, withdrawal of an approval, clinical holds, warning or untitled letters, product recalls, product seizures, total or partial suspension of production or distribution, product detentions or refusal to permit the import or export of the product, restrictions on the marketing or manufacturing of the product, injunctions, fines, refusals of government contracts, mandated corrective advertising or communications with doctors or other stakeholders, debarment, restitution, disgorgement of profits, or civil or criminal penalties. Any agency or judicial enforcement action could have a material adverse effect on us. Biological product manufacturers and other entities involved in the manufacture and distribution of approved biological products are required to register their establishments with the FDA and certain state agencies, and are subject to periodic unannounced inspections by the FDA and certain state agencies for compliance with ongoing regulatory requirements, including cGMPs, which impose certain procedural and documentation requirements on sponsors and their contract development and manufacturing organizations (CMOs CDMOs). Manufacturers and other parties involved in the drug supply chain for prescription drug and biological products must also comply with product tracking and tracing requirements and for notifying the FDA of counterfeit, diverted, stolen and intentionally adulterated products or products that are otherwise unfit for distribution in the United States. Accordingly, manufacturers must continue to expend time, money, and effort in the area of production and quality control to maintain cGMP compliance. Discovery of problems with a product after approval may result in restrictions on a product, manufacturer, or holder of an approved BLA, including withdrawal of the product from the market. In addition, changes to the manufacturing process or facility generally require prior FDA approval before being implemented and other types of changes to the approved product, such as adding new indications and additional labeling claims, are also subject to further FDA review and approval. U. S. Patent Term Restoration and Marketing Exclusivity Depending upon the timing, duration and specifics of the FDA approval of a biological product, some of a sponsor's U. S. patents may be eligible for limited patent term extension under the Hatch- Waxman Amendments. The Hatch- Waxman Amendments permit a patent restoration term of up to five years as compensation for patent term lost during product development and the FDA regulatory review process. However, patent term restoration cannot extend the remaining term of a patent beyond a total of 14 years from the product's approval

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date. The patent term restoration period is generally one-half the time between the effective date of an IND and the submission
date of a BLA plus the time between the submission date of a BLA and the approval of that application. Only one patent
applicable to an approved biological product is eligible for the extension and the application for the extension must be submitted
prior to the expiration of the patent. In addition, a patent can only be extended once and only for a single product. The United
States Patent and trademark Office (USPTO) in consultation with the FDA, reviews and approves the application for any patent
term extension or restoration. In the future, we may intend to apply for restoration of patent term for one of our patents, if and as
applicable, to add patent life beyond its current expiration date, depending on the expected length of the clinical trials and other
factors involved in the filing of the relevant BLA. A biological product can obtain pediatric market exclusivity in the U.S.
Pediatric exclusivity, if granted, adds six months to existing exclusivity periods for all formulations, dosage forms, and
indications of the biologic including some regulatory exclusivity periods tied to patent terms. This six- month exclusivity,
which runs from the end of other exclusivity protection or patent term, may be granted based on the voluntary completion of a
pediatric study in accordance with an FDA- issued "Written Request" for such a study, provided that at the time pediatric
exclusivity is granted there is not less than nine months of term remaining. The ACA includes a subtitle called the
Biologics Price Competition and Innovation Act of 2009 (BPCIA) which created an abbreviated approval pathway for biological
products shown to be biosimilar to, or interchangeable with, an FDA- licensed reference biological product. This amendment to
the PHS Act attempts to minimize duplicative testing. Biosimilarity, which requires that there be no clinically meaningful
differences between the biological product and the reference product in terms of safety, purity, and potency, can be shown
through analytical studies, animal studies, and a clinical trial or trials. Interchangeability requires that a product is biosimilar to
the reference product and the product must demonstrate that it can be expected to produce the same clinical results as the
reference product and, for products administered multiple times, the biologic and the reference biologic may be switched after
one has been previously administered without increasing safety risks or risks of diminished efficacy relative to exclusive use of
the reference biologic. However, complexities associated with the larger, and often more complex, structure of biological
products, as well as the process by which such products are manufactured, pose significant hurdles to implementation that are
still being worked out by the FDA. FDA will not accept an application for a biosimilar or interchangeable product based on the
reference biological product until four years after the date of first licensure of the reference product, and FDA will not approve
an application for a biosimilar or interchangeable product based on the reference biological product until 12 years after the date
of first licensure of the reference product. "First licensure" typically means the initial date the particular product at issue was
licensed in the United States. Date of first licensure does not include the date of licensure of (and a new period of exclusivity is
not available for) a biological product if the licensure is for a supplement for the biological product or for a subsequent
application by the same sponsor or manufacturer of the biological product (or licensor, predecessor in interest, or other related
entity) for a change (not including a modification to the structure of the biological product) that results in a new indication, route
of administration, dosing schedule, dosage form, delivery system, delivery device or strength, or for a modification to the
structure of the biological product that does not result in a change in safety, purity, or potency. The BPCIA is complex and
continues to be interpreted and implemented by the FDA. In addition, government proposals have sought to reduce the 12-year
reference product exclusivity period. Other aspects of the BPCIA, some of which may impact the BPCIA exclusivity provisions,
have also been the subject of recent litigation. As a result, the ultimate implementation and impact of the BPCIA is subject to
significant uncertainty. United States Regulation of Companion Diagnostics Our product candidates may require use of an in
vitro diagnostic to identify appropriate patient populations. These diagnostics, often referred to as companion diagnostics, are
regulated as medical devices. In the United States, the FD & C Act and its implementing regulations and other federal and state
statutes and regulations govern, among other things, medical device design and development, preclinical and clinical testing,
premarket clearance or approval, registration and listing, manufacturing, labeling, storage, advertising and promotion, sales and
distribution, export and import and post- market surveillance. Unless an exemption applies, companion diagnostic tests require
marketing clearance or approval from the FDA prior to commercial distribution. The two primary types of FDA marketing
authorization applicable to a medical device are premarket notification, also called 510 (k) clearance, and premarket approval
(PMA approval). If use of companion diagnostic is essential to safe and effective use of a drug or biological product, then the
FDA generally will require approval or clearance of the diagnostic contemporaneously with the approval of the therapeutic
product. On August 6, 2014, the FDA issued a final guidance document addressing the development and approval process for "
In Vitro Companion Diagnostic Devices." According to the guidance, for novel candidates such as our product candidates, a
companion diagnostic device and its corresponding drug or biological candidate should be approved or cleared
contemporaneously by FDA for the use indicated in the therapeutic product labeling. The guidance also explains that a
companion diagnostic device used to make treatment decisions in clinical trials of a biologic product candidate generally will be
considered an investigational device, unless it is employed for an intended use for which the device is already approved or
cleared. If used to make critical treatment decisions, such as patient selection, the diagnostic device generally will be considered
a significant risk device under the FDA's Investigational Device Exemption (IDE) regulations. Thus, the sponsor of the
diagnostic device will be required to comply with the IDE regulations. According to the guidance, if a diagnostic device and a
drug are to be studied together to support their respective approvals, both products can be studied in the same investigational
study, if the study meets both the requirements of the IDE regulations and the IND regulations. The guidance provides that
depending on the details of the study plan and subjects, a sponsor may seek to submit an IND alone, or both an IND and an IDE.
In July 2016, the FDA issued a draft guidance document intended to further assist sponsors of therapeutic products and sponsors
of in vitro companion diagnostic devices on issues related to co-development of these products. The FDA generally requires
companion diagnostics intended to select the patients who will respond to cancer treatment to obtain approval of a PMA for that
diagnostic contemporaneously with approval of the therapeutic. The review of these in vitro companion diagnostics in
conjunction with the review of therapeutic candidates such as those we are developing involves coordination of review by the
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FDA's Center for Biologics Evaluation and Research and by the FDA's Center for Devices and Radiological Health. The PMA process, including the gathering of clinical and pre-clinical data and the submission to and review by the FDA, can take several years or longer. It involves a rigorous premarket review during which the applicant must prepare and provide the FDA with reasonable assurance of the device's safety and effectiveness and information about the device and its components regarding, among other things, device design, manufacturing and labeling. PMA applications are also subject to an application fee. PMAs for certain devices must generally include the results from extensive pre-clinical and adequate and well-controlled clinical trials to establish the safety and effectiveness of the device for each indication for which FDA approval is sought. In particular, for a diagnostic, the applicant must demonstrate that the diagnostic produces reproducible results when the same sample is tested multiple times by multiple users at multiple laboratories. In addition, as part of the PMA review, the FDA will typically inspect the manufacturer's facilities for compliance with the Quality System Regulation (QSR) which imposes elaborate testing, control, documentation and other quality assurance requirements. If the FDA evaluations of both the PMA application and the manufacturing facilities are favorable, the FDA will either issue an approval letter or a not-approvable letter, which usually contains a number of conditions that must be met in order to secure the final approval of the PMA, such as changes in labeling, or specific additional information, such as submission of final labeling, in order to secure final approval of the PMA. If the FDA concludes that the applicable criteria have been met, the FDA will issue a PMA for the approved indications, which can be more limited than those originally sought by the applicant. The PMA can include post-approval conditions that the FDA believes necessary to ensure the safety and effectiveness of the device, including, among other things, restrictions on labeling, promotion, sale and distribution. If the FDA's evaluation of the PMA or manufacturing facilities is not favorable, the FDA will issue an order denying approval of the PMA or issue a not approvable order. A not approvable letter will outline the deficiencies in the application and, where practical, will identify what is necessary to make the PMA approvable. The FDA may also determine that additional clinical trials are necessary, in which case the PMA approval may be delayed for several months or years while the trials are conducted and then the data submitted in an amendment to the PMA. Once granted, PMA approval may be withdrawn by the FDA if compliance with post approval requirements, conditions of approval or other regulatory standards is not maintained or problems are identified following initial marketing. PMA approval is not guaranteed, and the FDA may ultimately respond to a PMA submission with a not approvable determination based on deficiencies in the application and require additional clinical trial or other data that may be expensive and time- consuming to generate and that can substantially delay approval. In January 2024, the FDA announced its intention to initiate the reclassification process for most in vitro diagnostics, including companion diagnostics. Further, the FDA indicated that in addition to the reclassification process, the FDA will continue taking a risk- based approach in the initial classification of individual in vitro diagnostics to determine whether a new test may be classified into Class II through the de novo classification process. In so doing, the FDA indicated that it may regulate most future companion diagnostics as Class II devices, which would likely entail less onerous development, approval, and postmarket regulatory requirements than what is required for Class III medical devices and in vitro diagnostics that are subject to the PMA pathway. After a device is placed on the market, it remains subject to significant regulatory requirements. Medical devices may be marketed only for the uses and indications for which they are cleared or approved. Device manufacturers must also establish registration and device listings with the FDA. A medical device manufacturer's manufacturing processes and those of its suppliers are required to comply with the applicable portions of the QSR, which cover the methods and documentation of the design, testing, production, processes, controls, quality assurance, labeling, packaging and shipping of medical devices. Domestic facility records and manufacturing processes are subject to periodic unscheduled inspections by the FDA. The FDA also may inspect foreign facilities that export products to the United States, 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 Conservancy and Recovery Act and the Toxic Substances Control Act, affect our business. These and other laws govern our use, handling and disposal of various biological, chemical and radioactive substances used in, and wastes generated by, our 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. Government Regulation Outside of The United States In addition to regulations in the United States, we are subject to a variety of regulations in other jurisdictions governing, among other things, research and development, clinical trials, testing, manufacturing, safety, efficacy, labeling, packaging, storage, record keeping, distribution, reporting, advertising and other promotional practices involving biological products as well as authorization and approval of our products. Because biologically sourced raw materials are subject to unique contamination risks, their use may be restricted in some countries. The requirements and process governing the conduct of clinical trials, product licensing, pricing and reimbursement vary from country to country. In all cases, the clinical trials must be conducted in accordance with GCP and the applicable regulatory requirements and the ethical principles that have their origin in the Declaration of Helsinki. If we fail to comply with applicable foreign regulatory requirements, we may be subject to, among other things, fines, suspension of clinical trials, suspension or withdrawal of regulatory approvals, product recalls, seizure of products, operating restrictions and criminal prosecution. Clinical Trials Regulation Whether or not we obtain FDA approval for a product, we must obtain the requisite approvals from regulatory authorities in foreign countries prior to the commencement of clinical trials or marketing of the product in those countries. Certain countries outside of the United States have a similar process that requires the submission of a clinical trial application much like the IND prior to the commencement of human clinical trials. In the EU, for example, an application must be submitted for each clinical trial to each country's national competent authority (NCA), and at least one independent ethics committee, much like the FDA and an IRB, respectively. Under the new-Clinical Trials Regulation (EU) No. 536 / 2014, which replaced the Clinical Trials Directive 2001 / 20 / EC on January 31, 2022, a single application is now made through the Clinical Trials Information System (CTIS) for clinical trial authorization in up to 30 EU / EEA countries at the same time and with a single set of documentation. The assessment of applications for clinical trials is divided into two parts (Part I

contains scientific and medicinal product documentation and Part II contains the national and patient-level documentation). Part I is assessed by a coordinated review by the competent authorities of all EU Member States in which an application for authorization of a clinical trial has been submitted (Member States concerned) of a draft report prepared by a Reference Member State. Part II is assessed separately by each Member State concerned. The role of the relevant ethics committees in the assessment procedure will continue continues to be governed by the national law of the concerned EU Member State, however overall related timelines are defined by the Clinical Trials Regulation. The new-Clinical Trials Regulation also provides for simplified reporting procedures for clinical trial sponsors. European Union Drug Review and Approval In the EU, medicinal products can only be commercialized after obtaining a marketing authorization. To obtain regulatory approval of a medicinal product in the EU, we must submit a marketing authorization application (MAA). A centralized marketing authorization is issued by the European Commission through the centralized procedure, based on the opinion of the Committee for Medicinal Products for Human Use (CHMP) of the EMA, and is valid throughout the EU and the additional Member States of the European Economic Area (Iceland, Liechtenstein and Norway) (the EEA). The centralized procedure is mandatory for certain types of products, such as biotechnology medicinal products, orphan medicinal products, advanced- therapy medicinal products (i. e. gene therapy, somatic cell therapy or tissue- engineered medicines), and medicinal products containing a new active substance indicated for the treatment of HIV, AIDS, cancer, neurodegenerative disorders, diabetes, auto-immune and other immune dysfunctions, and viral diseases. The centralized procedure is optional for products containing a new active substance not yet authorized in the EU, or for products that constitute a significant therapeutic, scientific or technical innovation or which are in the interest of public health in the EU. Under the centralized procedure the maximum timeframe for the evaluation of a an MAA by the EMA is 210 days, excluding clock stops, when additional written or oral information is to be provided by the applicant in response to questions asked by the CHMP. Clock stops may extend the timeframe of evaluation of a an MAA considerably beyond 210 days. Where the CHMP gives a positive opinion, it provides the opinion together with supporting documentation to the European Commission, who makes the final decision to grant a marketing authorization, which is issued within 67 days of receipt of the EMA's recommendation. Accelerated assessment might be granted by the CHMP in exceptional cases, when a medicinal product is expected to be of major public health interest, particularly from the point of view of therapeutic innovation. The timeframe for the evaluation of an MAA under the accelerated assessment procedure is 150 days, excluding clock stops, but it is possible that the CHMP may revert to the standard time limit for the centralized procedure if it determines that the application is no longer appropriate to conduct an accelerated assessment. The application used to submit the BLA in the United States is similar to that required in the European Union, although there may be certain specific requirements, for example those set out in Regulation (EC) No 1394 / 2007 on advanced therapy medicinal products, covering gene therapy, somatic cell therapy and tissue- engineered medicinal products. Now that the UK (which comprises Great Britain and Northern Ireland) has left the EU, Great Britain is no longer covered by centralized marketing authorizations (under the Northern Ireland Protocol, centralized marketing authorizations will-currently continue to be recognized in Northern Ireland). <mark>On All medicinal</mark> products with a centralized marketing authorization were automatically converted to Great Britain marketing authorizations on January, 1 2021. For a period of three years from January 1, 2021-2024, the Medicines and an Healthcare products Regulatory Agency (MHRA) the UK medicines regulator, may rely on a decision taken by the European Commission on the approval of a new marketing authorization in the centralized procedure, in order to more quickly grant a new Great Britain marketing authorization. A separate application will, however, still be required. On January 24, 2023, the MHRA announced that a new international recognition framework was will be put in place from January 1 by the MHRA, under 2024, which the MHRA will have regard to decisions on the approval of marketing authorizations made by the European Medicines Agency and certain other regulators when determining an application for a new Great Britain marketing authorization. Data and Market Exclusivity In the EU, upon receiving a marketing authorization, innovative medicinal products approved on the basis of a complete and independent data package qualify for eight years of data exclusivity and an additional two years of market exclusivity. If granted, data exclusivity prevents generic or biosimilar applicants from referencing the innovator's pre-clinical and clinical trial data contained in the dossier of the reference product when applying for a generic or biosimilar marketing authorization in the EU, during a period of eight years from the date on which the reference product was first authorized in the EU. During the additional two- year period of market exclusivity, a generic or biosimilar MAA can be submitted and authorized, and the innovator's data may be referenced, but no generic or biosimilar product can be placed on the EU market until the expiration of the market exclusivity. The overall ten- year period will be extended to a maximum of eleven years if, during the first eight years of those ten years, the marketing authorization holder obtains an authorization for one or more new therapeutic indications which, during the scientific evaluation prior to authorization, are held to bring a significant clinical benefit in comparison with existing therapies. There is no guarantee that a product will be considered by the EMA to be an innovative medicinal product, and products may not qualify for data exclusivity. Even if a product is considered to be an innovative medicinal product so that the innovator gains the prescribed period of data exclusivity, another company may market another version of the product if such company obtained a marketing authorization based on an MAA with a complete and independent data package of pharmaceutical tests, preclinical tests and clinical trials. Orphan Drug-Designation and Exclusivity Products receiving orphan designation in the EU can receive ten years of market exclusivity, during which time no "similar medicinal product" may be placed on the market. A "similar medicinal product" is defined as a medicinal product containing a similar active substance or substances as contained in an 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 in the EU where an agreed pediatric investigation plan (PIP) for pediatric studies has been complied with. No extension to any supplementary protection certificate (SPC) can be granted on the basis of pediatric studies for orphan indications. The criteria for designating an "orphan medicinal product" in the EU are similar in principle to those in the United States. Under Article 3 of Regulation (EC) 141/2000, a product may be designated as an orphan medicinal product if it meets the following criteria: (1) it is intended for the diagnosis,

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prevention or treatment of a life- threatening or chronically debilitating condition; (2) either (a) such condition affects no more
than five (5) in ten thousand (10, 000) persons in the EEA-EU when the application is made, or (b) it is unlikely that the
product, without the benefits derived from orphan status, would generate sufficient return in the EU to justify the necessary
investment in its development; and (3) there exists no satisfactory method of diagnosis, prevention or treatment of such condition
authorized for marketing in the EU, or if such a method exists, the product would be of significant benefit to those affected by
that condition, as defined in Regulation (EC) 847/2000. Orphan medicinal products are eligible for financial incentives such as
reduction of fees or fee waivers and are, upon the grant of a marketing authorization, entitled to ten years of market exclusivity
for the approved therapeutic indication. The application for orphan designation must be submitted before the application for a
marketing authorization. The applicant will receive a fee reduction for the MAA if the orphan drug designation has been
granted, but not if the designation is still pending at the time the marketing authorization is submitted. Orphan designation does
not convey any advantage in, or shorten the duration of, the regulatory review and approval process. The 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, for example, if the product is sufficiently profitable not to justify maintenance of market
exclusivity. Additionally, a marketing authorization may be granted to a similar medicinal product for the same indication as an
authorized orphan product at any time if: • the second applicant can establish that its product, although similar to the
authorized orphan product, is safer, more effective or otherwise clinically superior; • the marketing authorization holder of the
authorized product consents to a second orphan medicinal product application; or • the marketing authorization holder of the
authorized product cannot supply enough orphan medicinal product. Pediatric Development In the EU, companies developing a
new medicinal product must agree upon a PIP with the EMA's pediatric committee (PDCO) and must conduct pediatric clinical
trials in accordance with that PIP, unless the EMA has granted a product-specific waiver, a class waiver, or a deferral for one or
more of the measures included in the PIP. This requirement also applies when a company wants to add a new indication,
pharmaceutical form or route of administration for a medicine that is already authorized. The PIP sets out the timing and
measures proposed to generate data to support a pediatric indication of the product for which a marketing authorization is being
sought. The MAA for the product must include the results of pediatric clinical trials conducted in accordance with the PIP,
unless a waiver applies, or a deferral has been granted by the PDCO of the obligation to implement some or all of the measures
of the PIP until there are sufficient data to demonstrate the efficacy and safety of the product in adults, in which case the
pediatric clinical trials must be completed at a later date. Products that are granted a marketing authorization with the results of
the pediatric clinical trials conducted in accordance with the PIP are eligible for a six month extension of the protection under an
SPC (provided an application for such extension is made at the same time as filing the SPC application for the product, or at any
point up to 2 years before the SPC expires) even where the trial results are negative. In the case of orphan medicinal products, a
two-year extension of the orphan market exclusivity may be available. This pediatric reward is subject to specific conditions
and is not automatically available when data in compliance with the PIP are developed and submitted. Post-Approval Controls
Following approval, the holder of the marketing authorization is required to comply with a range of requirements applicable to
the manufacturing, marketing, promotion and sale of the medicinal product. These include the following: • The holder of a
marketing authorization 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 periodic safety update reports (PSURs). • 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 marketing authorization. Such risk-minimization measures or post- authorization obligations may include
additional safety monitoring, more frequent submission of PSURs, or the conduct of additional clinical trials or post-
authorization safety studies. RMPs and PSURs are routinely available to third parties requesting access, subject to limited
redactions. • All advertising and promotional activities for the product must be consistent with the approved summary of
product characteristics (SmPC) and therefore all off- label promotion is prohibited. Direct- to- consumer advertising of
prescription medicines is also prohibited in the EU. Although general requirements for advertising and promotion of medicinal
products are established under EU directives, the details are governed by regulations in each EU Member State and can differ
from one country to another. The aforementioned EU rules are generally applicable in the EEA. Reform of the Regulatory
Framework in the European Union The European Commission introduced legislative proposals in April 2023 that, if
implemented, will replace the current regulatory framework in the EU for all medicines (including those for rare diseases
and for children). The European Commission has provided the legislative proposals to the European Parliament and the
European Council for their review and approval. In October 2023, the European Parliament published draft reports
proposing amendments to the legislative proposals, which will be debated by the European Parliament. Once the
European Commission's legislative proposals are approved (with or without amendment), they will be adopted into EU
law. Brexit and the Regulatory Framework in the United Kingdom The UK formally left the EU on January 31, 2020, and the
UK and the EU have concluded a trade and cooperation agreement or TCA, which was provisionally applicable since January 1,
2021 and has been formally applicable since May 1, 2021. The TCA includes specific provisions concerning pharmaceuticals,
which include the mutual recognition of GMP, inspections of manufacturing facilities for medicinal products and GMP
documents issued, but does not provide for wholesale mutual recognition of UK and EU pharmaceutical regulations. At present,
Great Britain has implemented EU legislation on the marketing, promotion and sale of medicinal products through the Human
Medicines Regulations 2012 (as amended) (under the Northern Ireland Protocol, the EU regulatory framework currently
continues to apply in Northern Ireland). Except in respect of the new EU Clinical Trials Regulation, the regulatory regime in
Great Britain therefore largely aligns with current EU medicines regulations, however it is possible that these regimes will
diverge more significantly in future now that Great Britain's regulatory system is independent from the EU and the TCA does
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not provide for mutual recognition of UK and EU pharmaceutical legislation. However, notwithstanding that there is no
wholesale recognition of EU pharmaceutical legislation under the TCA, under <del>the a</del> new <mark>international recognition</mark> framework
mentioned above which was will be put in place by the MHRA from on January 1, 2024, the MHRA may has stated that it will
still-take into account decisions on the approval of marketing authorizations from the EMA (and certain other regulators) when
considering an application for a Great Britain marketing authorization. On February 27, 2023, the UK government and the
European Commission announced a political agreement in principle to replace the Northern Ireland Protocol with a new
set of arrangements, known as the "Windsor Framework". This new framework fundamentally changes the existing
system under the Northern Ireland Protocol, including with respect to the regulation of medicinal products in the UK. In
particular, the MHRA will be responsible for approving all medicinal products destined for the UK market (i. e., Great
Britain and Northern Ireland), and the EMA will no longer have any role in approving medicinal products destined for
Northern Ireland. A single UK- wide marketing authorization will be granted by the MHRA for all medicinal products
to be sold in the UK, enabling products to be sold in a single pack and under a single authorization throughout the UK.
The Windsor Framework was approved by the EU- UK Joint Committee on March 24, 2023, so the UK government and
the EU will enact legislative measures to bring it into law. On June 9, 2023, the MHRA announced that the medicines
aspects of the Windsor Framework will apply from January 1, 2025. Health Reform In the United States, there have been
and continue to be a number of legislative initiatives to contain healthcare costs. For example, in 2010, the ACA was passed,
which substantially changed the way healthcare is financed by both governmental and private insurers, and continues to
significantly impact the U. S. pharmaceutical industry. The ACA, among other things, subjects biological products to potential
competition by lower- cost biosimilars, increases the minimum Medicaid rebates owed by manufacturers under the Medicaid
Drug Rebate Program extends the rebate program to individuals enrolled in Medicaid managed care organizations, establishes
annual fees and taxes on manufacturers of certain branded prescription drugs, and creates a new Medicare Part D coverage gap
discount program, in which manufacturers must agree to offer 70 % point- of- sale discounts off negotiated prices of applicable
brand drugs to eligible beneficiaries during their coverage gap period, as a condition to coverage under Medicare Part D for the
manufacturer's outpatient drugs. Other legislative changes have been proposed and adopted in the United States since the ACA
was enacted: • The Budget Control Act of 2011, among other things, created measures for spending reductions by Congress.
This includes aggregate reductions of Medicare payments to providers of 2 % per fiscal year. Subsequent legislation extended
the 2 % payment reduction which remains in effect through 2030-2031. • The American Taxpayer Relief Act further reduced
Medicare payments to several types of providers and increased the statute of limitations period for the government to recover
overpayments to providers from three to five years. Due to the Statutory Pay- As- You- Go Act of 2010, estimated budget
deficit increases resulting from the American Rescue Plan Act of 2021, and subsequent legislation, Medicare payments to
providers will be further reduced starting in 2025 absent further legislation. • On April 13, 2017, the Centers for Medicare &
Medicaid Services (CMS) published a final rule that gives states greater flexibility in setting benchmarks for insurers in the
individual and small group marketplaces, which may have the effect of relaxing the essential health benefits required under the
ACA for plans sold through such marketplaces. • On May 30, 2018, the Right to Try Act, was signed into law. The law, among
other things, provides a federal framework for certain patients to access certain investigational new drug products that have
completed a Phase phase 1 clinical trial and that are undergoing investigation for FDA approval. Under certain circumstances,
eligible patients can seek treatment without enrolling in clinical trials and without obtaining FDA permission under the FDA
expanded access program. There is no obligation for a pharmaceutical manufacturer to make its drug products available to
eligible patients as a result of the Right to Try Act. • On May 23, 2019, CMS published a final rule to allow Medicare
Advantage Plans the option of using step therapy for Part B drugs beginning January 1, 2020, Moreover, payment
methodologies may be subject to changes in healthcare legislation and regulatory initiatives which could limit the amounts that
federal and state governments will pay for healthcare products and services and result in reduced demand for certain
pharmaceutical products or additional pricing pressures. The Inflation Reduction Act of 2022, or IRA, includes several
provisions that may impact our business to varying degrees, including provisions that reduce the out- of- pocket cap for
Medicare Part D beneficiaries to $ 2,000 starting in 2025; impose new manufacturer financial liability on certain drugs under
Medicare Part D, allow the U. S. government to negotiate Medicare Part B and Part D price caps for certain high-cost drugs
and biologics without generic or biosimilar competition, require companies to pay rebates to Medicare for certain drug prices
that increase faster than inflation, and delay the rebate rule that would limit the fees that pharmacy benefit managers can charge.
Further, under the IRA, orphan drugs are exempted from the Medicare drug price negotiation program, but only if they have one
orphan rare disease designation and for which the only approved indication is for that disease or condition. If a product receives
multiple orphan rare disease designations or has multiple approved indications, it may not qualify for the orphan drug
exemption. The implementation of the IRA is currently subject to ongoing litigation challenging the constitutionality of
the IRA's Medicare drug price negotiation program. The effects of the IRA on our business and the healthcare industry in
general is not yet known. Additionally, there has been increasing legislative and enforcement interest in the United States with
respect to specialty drug pricing practices. Specifically, there have been several recent U. S. presidential executive orders,
congressional inquiries and proposed and enacted federal and state legislation designed to, among other things, bring more
transparency to drug pricing, reduce the cost of prescription drugs under Medicare, review the relationship between pricing and
manufacturer patient programs, and reform government program reimbursement methodologies for drugs. President Biden has
also issued multiple executive orders that have sought to reduce prescription drug costs. In February 2023, HHS also issued a
proposal in response to an October 2022 executive order from President Biden that includes a proposed prescription
drug pricing model that will test whether targeted Medicare payment adjustments will sufficiently incentivize
manufacturers to complete confirmatory trials for drugs approved through FDA's accelerated approval pathway.
Although a number of these and other proposed measures may require authorization through additional legislation to become
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effective, and the Biden administration may reverse or otherwise change these measures, both the Biden administration and
Congress have indicated that they will continue to seek new legislative measures to control drug costs. At the state level,
legislatures have increasingly passed legislation and implemented regulations designed to control pharmaceutical product
pricing, including price or patient reimbursement constraints, discounts, restrictions on certain product access and marketing
cost disclosure and transparency measures, and, in some cases, designed to encourage importation from other countries and bulk
purchasing. In addition, regional healthcare authorities and individual hospitals are increasingly using bidding procedures to
determine what pharmaceutical products and which suppliers will be included in their prescription drug and other healthcare
programs. This could reduce the ultimate demand for our drugs or put pressure on our drug pricing, which could negatively
affect our business, financial condition, results of operations and prospects. Legally mandated price controls on payment
amounts by third- party payors or other restrictions could harm our business, financial condition, results of operations and
prospects. In addition, regional healthcare authorities and individual hospitals are increasingly using bidding procedures to
determine what pharmaceutical products and which suppliers will be included in their prescription drug and other healthcare
programs. This could reduce the ultimate demand for our drugs or put pressure on our drug pricing, which could
negatively affect our business, financial condition, results of operations and prospects. Coverage and Reimbursement In the
United States and markets in other countries, patients who are prescribed treatments for their conditions and providers
performing the prescribed services generally rely on third-party payors to reimburse all or part of the associated healthcare
costs. Thus, even if a product candidate is approved, sales of the product will depend, in part, on the extent to which third- party
payors, including government health programs in the United States such as Medicare and Medicaid, commercial health insurers
and managed care organizations, provide coverage, and establish adequate reimbursement levels for, the product. In the United
States, the principal decisions about reimbursement for new medicines are typically made by CMS, an agency within HHS.
CMS decides whether and to what extent a new medicine will be covered and reimbursed under Medicare and private payors
tend to follow CMS to a substantial degree. No uniform policy of coverage and reimbursement for drug products exists among
third- party payors. Therefore, coverage and reimbursement for drug products can differ significantly from payor to payor. The
process for determining whether a third- party 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
are increasingly challenging the prices charged, examining the medical necessity, reviewing the cost- effectiveness of medical
products and services and imposing controls to manage costs. Coverage and reimbursement by a third- party payor may depend
upon several factors, including the third- party payor's determination that use of a product is: • a covered benefit under its
health plan; • safe, effective and medically necessary; • appropriate for the specific patient; • cost- effective; and • neither
experimental nor investigational. Third- party payors may limit coverage to specific products on an approved list, also known as
a formulary, which might not include all of the approved products for a particular indication. Net prices for drugs may be
reduced by mandatory discounts or rebates required by government healthcare programs or private payors and by any future
relaxation of laws that presently restrict imports of drugs from countries where they may be sold at lower prices than in the
United States. We cannot be sure that reimbursement will be available for any product candidate that we commercialize and, if
reimbursement is available, the level of reimbursement. In addition, many pharmaceutical manufacturers must calculate and
report certain price reporting metrics to the government, such as average sales price and best price. Penalties may apply in some
cases when such metrics are not submitted accurately and timely. Further, these prices for drugs may be reduced by mandatory
discounts or rebates required by government healthcare programs. Payment methodologies may be subject to changes in
healthcare legislation and regulatory initiatives. 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, which will require additional expenditure above and beyond the costs required
to obtain FDA or other comparable regulatory approvals. Additionally, companies may also need to provide discounts to
purchasers, private health plans or government healthcare programs. Nonetheless, product candidates may not be considered
medically necessary or cost effective. A decision by a third- party payor not to cover a product could reduce physician
utilization once the product is approved and have a material adverse effect on sales, our operations and financial condition.
Additionally, a third-party payor's decision to provide coverage for a product does not imply that an adequate reimbursement
rate will be approved. Further, one payor's determination to provide coverage for a product does not assure that other payors
will also provide coverage and reimbursement for the product, and the level of coverage and reimbursement can differ
significantly from payor to payor. The containment of healthcare costs has become a priority of federal, state and foreign
governments, and the prices of products have been a focus in this effort. Governments have shown significant interest in
implementing cost- containment programs, including price controls, restrictions on reimbursement and requirements for
substitution of generic products. Adoption of price controls and cost-containment measures, and adoption of more restrictive
policies in jurisdictions with existing controls and measures, could further limit a company's revenue generated from the sale of
any approved products. Coverage policies and third- party payor reimbursement rates may change at any time. Even if favorable
coverage and reimbursement status is attained for one or more products for which a company or its collaborators receive
regulatory approval, less favorable coverage policies and reimbursement rates may be implemented in the future. In addition, in
some foreign countries, the proposed pricing for a drug must be approved before it may be lawfully marketed. The requirements
governing drug pricing vary widely from country to country. For example, the European Union provides options for its Member
States to restrict the range of medicinal products for which their national health insurance systems provide reimbursement and to
control the prices of medicinal products for human use. To obtain reimbursement or pricing approval, some of these countries
may require the completion of clinical trials that compare the cost effectiveness of a particular product candidate to currently
available therapies. A Member State may approve a specific price for the medicinal product or it may instead adopt a system of
direct or indirect controls on the profitability of the company placing the medicinal product on the market. There can be no
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assurance that any country that has price controls or reimbursement limitations for pharmaceutical products will allow favorable reimbursement and pricing arrangements for any of our product candidates. Historically, products launched in the European Union do not follow price structures of the United States and generally prices tend to be significantly lower. Other Healthcare Laws and Compliance Requirements Healthcare providers, physicians, and third- party payors will play a primary role in the recommendation and prescription of any products for which we obtain marketing approval. Our business operations and any current or future arrangements with third- party payors, healthcare providers and physicians may expose us 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 develop, market, sell and distribute any drugs for which we obtain marketing approval. In the United States, these laws include, without limitation, state and federal anti-kickback, false claims, physician transparency, and patient data privacy and security laws and regulations, including but not limited to those described below. The federal Anti-Kickback Statute prohibits, among other things, persons and entities from knowingly and willfully soliciting, offering, paying, receiving or providing any remuneration (including any kickback, bribe, or certain rebate), directly or indirectly, overtly or covertly, in cash or in kind, to induce or reward, or in return for, either the referral of an individual for, or the purchase, order or recommendation of, any good or service, for which payment may be made, in whole or in part, under a federal healthcare program such as Medicare and Medicaid. A person or entity need not have actual knowledge of the federal Anti- Kickback Statute or specific intent to violate it in order to have committed a violation. Violations are subject to civil and criminal fines and penalties for each violation, plus up to three times the remuneration involved, imprisonment, and exclusion from government healthcare programs. In addition, the government may assert that a claim that includes items or services resulting from a violation of the federal Anti- Kickback Statute constitutes a false or fraudulent claim for purposes of the civil False Claims Act. The federal civil and criminal false claims laws, including the civil False Claims Act (FCA) prohibit individuals or entities from, among other things, knowingly presenting, or causing to be presented, to the federal government, claims for payment or approval that are false, fictitious or fraudulent; knowingly making, using, or causing to be made or used, a false statement or record material to a false or fraudulent claim or obligation to pay or transmit money or property to the federal government; or knowingly concealing or knowingly and improperly avoiding or decreasing an obligation to pay money to the federal government. Manufacturers can be held liable under the FCA even when they do not submit claims directly to government payors if they are deemed to "cause" the submission of false or fraudulent claims. The FCA also permits a private individual acting as a "whistleblower" to bring actions on behalf of the federal government alleging violations of the FCA and to share in any monetary recovery. When an entity is determined to have violated the federal civil False Claims Act, the government may impose civil fines and penalties for each false claim, plus treble damages, and exclude the entity from participation in Medicare, Medicaid and other federal healthcare programs. The federal civil monetary penalties laws impose civil fines for, among other things, the offering or transfer or remuneration to a Medicare or state healthcare program beneficiary, if the person knows or should know it is likely to influence the beneficiary's selection of a particular provider, practitioner, or supplier of services reimbursable by Medicare or a state health care program, unless an exception applies. The Health Insurance Portability and Accountability Act of 1996 (HIPAA) imposes criminal and civil liability for knowingly and willfully executing a scheme, or attempting to execute a scheme, to defraud any healthcare benefit program, including private payors, knowingly and willfully embezzling or stealing from a healthcare benefit program, willfully obstructing a criminal investigation of a healthcare offense, or falsifying, concealing or covering up a material fact or making any materially false statements in connection with the delivery of or payment for healthcare benefits, items or services. Similar to the federal Anti-Kickback Statute, a person or entity may be found guilty of violating HIPAA without actual knowledge of the statute or specific intent to violate it. HIPAA, as amended by the Health Information Technology for Economic and Clinical Health Act of 2009 (HITECH), and their respective implementing regulations, impose, among other things, specified requirements on covered entities and their respective business associates relating to the privacy and security of individually identifiable health information including mandatory contractual terms and required implementation of technical safeguards of such information. HITECH also created new tiers of civil monetary penalties, amended HIPAA to make civil and criminal penalties directly applicable to business associates in some cases, and gave state attorneys general new authority to file civil actions for damages or injunctions in federal courts to enforce the federal HIPAA laws and seek attorneys' fees and costs associated with pursuing federal civil actions. The Physician Payments Sunshine Act, enacted as part of the ACA, imposed new annual reporting requirements for certain manufacturers of drugs, devices, biologics, and medical supplies for which payment is available under Medicare, Medicaid, or the Children's Health Insurance Program, for certain payments and "transfers of value" provided to physicians (currently defined to include doctors, dentists, optometrists, podiatrists and chiropractors), certain other licensed health care practitioners and teaching hospitals, as well as ownership and investment interests held by physicians and their immediate family members. Additionally, we are subject to state and foreign equivalents of each of the healthcare laws and regulations described above, among others, some of which may be broader in scope and may apply regardless of the payor. Many U. S. states have adopted laws similar to the federal Anti- Kickback Statute and False Claims Act, and may apply to our business practices, including, but not limited to, research, distribution, sales or marketing arrangements and claims involving healthcare items or services reimbursed by nongovernmental payors, including private insurers. In addition, some states have passed laws that require pharmaceutical companies to comply with the April 2003 Office of Inspector General Compliance Program Guidance for Pharmaceutical Manufacturers and / or the Pharmaceutical Research and Manufacturers of America's Code on Interactions with Healthcare Professionals. Several states also impose other marketing restrictions or require pharmaceutical companies to make marketing or price disclosures to the state and require the registration of pharmaceutical sales representatives. There are ambiguities as to what is required to comply with these state requirements and if we fail to comply with an applicable state law requirement we could be subject to penalties. Federal Consumer Protection and Unfair Competition Laws Broadly Regulate Marketplace Activities and Activities That Potentially Harm Consumers. Analogous state and foreign laws and regulations, including, but not

limited to, state anti- kickback and false claims laws, may be broader in scope than the provisions described above and may apply regardless of payor. Some state laws require pharmaceutical companies to comply with the pharmaceutical industry's voluntary compliance guidelines and relevant federal government compliance guidance; require drug manufacturers to report information related to payments and other transfers of value to physicians and other healthcare providers; restrict marketing practices or require disclosure of marketing expenditures and pricing information. State and foreign laws may govern the privacy and security of health information in some circumstances. These data privacy and security laws may differ from each other in significant ways and often are not pre- empted by HIPAA, which may complicate compliance efforts. The scope and enforcement of each of these laws is uncertain and subject to rapid change in the current environment of healthcare reform. Federal and state enforcement bodies have recently increased their scrutiny of interactions between healthcare companies and healthcare providers, which has led to a number of investigations, prosecutions, convictions and settlements in the healthcare industry. It is possible that governmental authorities will conclude that our business practices do not comply with current or future statutes, regulations or case law involving applicable fraud and abuse or other healthcare laws and regulations. If our operations are found to be in violation of any of these laws or any other related governmental regulations that may apply to us, we may be subject to significant civil, criminal and administrative penalties, damages, fines, imprisonment, disgorgement, exclusion from government funded healthcare programs, such as Medicare and Medicaid, reputational harm, additional oversight and reporting obligations if we become subject to a corporate integrity agreement or similar settlement to resolve allegations of non-compliance with these laws and the curtailment or restructuring of our operations. If any of the physicians or other healthcare providers or entities with whom we expect to do business are found to not be in compliance with applicable laws, they may be subject to similar actions, penalties and sanctions. Ensuring business arrangements comply with applicable healthcare laws, as well as responding to possible investigations by government authorities, can be time- and resourceconsuming and can divert a company's attention from its business. Employees and Human Capital Resources As of December 31, 2022-**2023** , we had 76-**42** employees. Of these employees, 61-31 perform research and development functions. None of our employees are represented by a labor union and we believe we maintain good relations with our employees. Our human capital resources objectives include, as applicable, identifying, recruiting, retaining, incentivizing and integrating our existing and new employees, advisors and consultants. The principal purposes of our equity and cash incentive plans are to attract, retain and reward personnel through the granting of stock- based and cash- based compensation awards, in order to increase stockholder value and the success of our company by motivating such individuals to perform to the best of their abilities and achieve our objectives. From time to time, we may become involved in litigation or other legal proceedings. On December 15, 2022, Periphagen notified us by letter of its claim that we have failed to use commercially reasonable efforts to complete a human proof of concept clinical trial of an NT- 3 Asset under an Exclusive License Agreement dated December 9, 2019 between us and Periphagen (the "Periphagen License Agreement"). We have denied Periphagen's elaims. On January 13, 2023, we filed a demand for arbitration against Periphagen with the American Arbitration Association, seeking a declaration that Periphagen's December 15 letter failed to comply with the dispute and escalation provisions in the Periphagen License Agreement. After filing the demand, the parties began engaging in the dispute and escalation process under the Periphagen License Agreement. On March 10, 2023, Periphagen filed its answer and counterclaims to our demand for arbitration. In its counterclaims, Periphagen seeks <mark>sought</mark> a declaration that we have not used commercially reasonable efforts to complete a human proof of concept clinical trial of the NT- 3 Asset and a declaration that any further extension of time would not be scientifically or commercially reasonable. Periphagen also seeks a declaration that we must use commercially reasonable efforts to develop the NT-3 Asset during any remaining time under the agreement. We have denied Periphagen's counterclaims counter claims. In the event the parties are unable to resolve the dispute as part of the escalation process, an arbitrator will decide whether we have used commercially reasonable efforts. In the event that the arbitrator determines that we have not used commercially reasonable efforts, then we may submit a specified payment in lieu of satisfying such obligations. Aside from the proceeding with Periphagen, we are not currently a party to any litigation or legal proceedings that, in the opinion of our management, are probable to have a material adverse effect on our business. Regardless of outcome, litigation can have an adverse impact on our business, financial condition, results of operations and prospects because of defense and settlement costs, diversion of management resources and other factors. Corporate Information We were incorporated in Delaware in June 2003. On November 30, 2020, the Company changed its name to Candel Therapeutics, Inc. Our principal executive offices are located at 117 Kendrick Street, Suite 450, Needham, Massachusetts 02494. Our telephone number is (617) 916-5445 and our e-mail address is investors @ candeltx. com. Our Internet website address is www. candeltx. 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 (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 Securities and Exchange Commission (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 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. Our code of conduct, corporate governance guidelines and the charters of our Audit Committee, Compensation Committee and Nominating and Corporate Governance Committee are available through the "Corporate Governance" portion of our website. Item 1A. Risk Factors. Our future operating results could differ materially from the results described in this Annual Report on Form 10- K due to the risks and uncertainties described below. You should consider carefully the following information about risks below in evaluating our business. If any of the following risks actually occur, our business, financial

conditions, results of operations and future growth prospects would likely be materially and adversely affected. Additional risks and uncertainties not presently known to us or that we currently deem immaterial also may impair our business operations. In these circumstances, the market price of our common stock would likely decline. In addition, we cannot assure investors that our assumptions and expectations will prove to be correct. Important factors could cause our actual results to differ materially from those indicated or implied by forward-looking statements. See "Forward-Looking Statements" for a discussion of some of the forward- looking statements that are qualified by these risk factors. Factors that could cause or contribute to such differences include those factors discussed below. Risks Related to Our Business, Financial Position and Capital Requirements We are a biopharmaceutical company with a limited operating history and have not generated any revenue to date from product sales. Biopharmaceutical product development is a highly speculative undertaking and involves a substantial degree of risk. We were incorporated under the laws of the State of Delaware in June 2003. Since inception, we have focused substantially all of our efforts and financial resources on raising capital and developing our initial product candidates. To date, we have financed our operations primarily through the issuance and sale of our convertible preferred stock to outside investors in private equity financings and from the proceeds of the initial public offering of our common stock (the IPO). From our inception through December 31, 2022-**2023**, we raised an aggregate of \$ 145.2 million of gross proceeds from such transactions. In addition, in February 2022, we borrowed \$ 20.0 million under the Loan Agreement with SVB. As of December 31, 2022 2023, our cash and cash equivalents were \$ 70-35. 1-4 million. We have incurred net losses in each year since our inception, and we had an accumulated deficit of \$ 99-137. 2-0 million as of December 31, 2022 2023. For the years ended December 31, 2023 and 2022 and 2021, we reported net losses of \$ 18-37. 9 million and \$ 36-18. 1-8 million, respectively. We have no products approved for commercial sale and therefore have never generated any revenue from product sales, and we do not expect to do so in the foreseeable future. We have not obtained regulatory approvals for any of our product candidates, and even if our clinical development efforts result in positive data, our product candidates may not receive regulatory approval or be successfully introduced and marketed at prices that would permit us to operate profitably. We expect to continue to incur significant expenses and operating losses over the next several years and for the foreseeable future. Our prior losses, combined with expected future losses, have had and will continue to have an adverse effect on our stockholders' deficit equity and working capital. We have incurred significant operating losses since our inception and anticipate that we will incur continued losses for the foreseeable future. Substantially all of our operating losses have resulted from costs incurred in connection with our research and development programs and from general and administrative costs associated with our operations. We expect our research and development expenses to significantly increase in connection with the commencement and continuation of clinical trials of our product candidates. In addition, if we obtain marketing approval for our product candidates, we will incur significant sales, marketing and manufacturing expenses. We are incurring additional costs associated with operating as a public company. As a result, we expect to continue to incur significant and increasing operating losses for the foreseeable future. Because of the numerous risks and uncertainties associated with developing pharmaceutical products, we are unable to predict the extent of any future losses or when we will become profitable, if at all. Even if we do become profitable, we may not be able to sustain or increase our profitability on a quarterly or annual basis. The amount of our future losses is uncertain, and our quarterly and annual operating results may fluctuate significantly or may fall below the expectations of investors or securities analysts, each of which may cause our stock price to fluctuate or decline. • Our quarterly and annual operating results may fluctuate significantly in the future due to a variety of factors, many of which are outside of our control and may be difficult to predict, including the following: • the timing and success or failure of clinical trials for our product candidates or competing product candidates, or any other change in the competitive landscape of our industry, including consolidation among our competitors or partners; • our ability to successfully enroll and retain subjects for clinical trials, and any delays caused by difficulties in such efforts; • our ability to obtain marketing approval for our product candidates, and the timing and scope of any such approvals we may receive; the changing and volatile U. S. and global economic environments, including as a result of the COVID-19 pandemic any future public health crisis; • the timing and cost of, and level of investment in, research and development activities relating to our product candidates, which may change from time to time; • the cost of manufacturing our product candidates, which may vary depending on the quantity of production, and the success of achieving clinical-scale manufacturing operations in our new facility or through CDMOs and commercial and clinical- scale manufacturing at third- party manufacturers; our ability to attract, hire and retain qualified personnel; • expenditures that we will or may incur to develop additional product candidates; • the level of demand for our product candidates should they receive approval, which may vary significantly; • the risk / benefit profile, cost and reimbursement policies with respect to our product candidates, if approved, and existing and potential future therapeutics that compete with our product candidates; and • future accounting pronouncements or changes in our accounting policies. The cumulative effects of these factors could result in large fluctuations and unpredictability in our quarterly and annual operating results. As a result, comparing our operating results on a period- to- period basis may not be meaningful. This variability and unpredictability could also result in our failing to meet the expectations of industry or financial analysts or investors for any period. If our revenue or operating results fall below the expectations of analysts or investors or below any forecasts we may provide to the market, or if the forecasts we provide to the market are below the expectations of analysts or investors, the price of our common stock could decline substantially. Such a stock price decline could occur even when we have met any previously publicly stated guidance we may provide. We have no products approved for commercial sale and have not generated any revenue from product sales. Our ability to become profitable depends upon our ability to generate revenue. To date, we have not generated any revenue from our product candidates, and we do not expect to generate any revenue from the sale of products in the near future. We do not expect to generate significant revenue unless and until we obtain marketing approval of, and begin to sell, one or more of our product candidates. Our ability to generate revenue depends on a number of factors, including, but not limited to, our ability to: • successfully complete our ongoing and planned preclinical studies and clinical trials for our viral immunotherapy programs; • timely file and receive acceptance of our Investigational New Drug

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applications (INDs), in order to commence our planned clinical trials or future clinical trials; • successfully enroll subjects in,
and complete, clinical trials for our viral immunotherapy programs; • implement measures to help minimize the risk of COVID-
19 to our employees as well as patients enrolled in our clinical trials; • timely file marketing applications and receive regulatory
approvals for our product candidates from the FDA and comparable foreign regulatory authorities; • initiate and successfully
complete all safety studies required to obtain U. S. and foreign marketing approval for our product candidates; • establish
clinical supply capabilities through arrangements with third- party manufacturers for clinical supply and commercial
manufacturing; • obtain and maintain patent and trade secret protection or regulatory exclusivity for our product candidates; •
launch commercial sales of our product candidates, if and when approved, whether alone or in collaboration with others; •
maintain a continued acceptable safety profile of the product candidates following approval; • obtain and maintain acceptance of
the product candidates, if and when approved, by patients, the medical community and third- party payors; • position our
products to effectively compete with other therapies; • obtain and maintain favorable coverage and adequate reimbursement by
third- party payors for our product candidates; • enforce and defend intellectual property rights and claims with respect to our
product candidates; and • hire additional staff, including clinical, scientific and management personnel. If we do not achieve one
or more of these factors in a timely manner or at all, we could experience significant delays or an inability to successfully
commercialize our product candidates, which would materially harm our business. If we do not receive regulatory approvals for
our product candidates, we may not be able to continue our operations. There is substantial doubt regarding our ability to
continue as a going concern. We will need to raise substantial additional funding, which may not be available on
acceptable terms, or at all. If we are unable to raise capital when needed, we would be forced to delay, reduce or
<mark>eliminate some of our product development programs or commercialization efforts.</mark> The development of pharmaceutical
products is capital- intensive. We are currently advancing our product candidates through clinical development across a number
of potential indications. We are currently conducting a Phase 3 clinical trial for CAN-2409 as first-line treatment in newly
diagnosed localized prostate cancer in intermediate to high-risk patients for which we completed enrollment in September of
2021 and expect to present topline data in the fourth quarter of 2024. Our second program using CAN-2409 is for the treatment
of NSCLC. We have an ongoing Phase 2 trial and initial clinical data was presented at the ASCO Annual Meeting in June 2022,
and an update during our Research and Development Day in December 2022. If the final Phase 2 clinical trial is positive, this
may warrant the initiation of a potentially registrational Phase 3 clinical trial. We are also studying CAN-2409 in a randomized
Phase 2 clinical trial in pancreatic cancer. Consequently, we expect our expenses to significantly increase in connection with our
ongoing activities, particularly as we continue our ongoing clinical trials or initiate future trials and pursue the research and
development of, and seek marketing approval for, our product candidates. In addition, depending on the status of regulatory
approval or, if we obtain marketing approval for any of our product candidates, we expect to incur significant commercialization
expenses related to product sales, marketing, manufacturing and distribution. We may also need to raise additional funds sooner
if we choose to pursue additional indications and / or geographies for our product candidates or otherwise expand more rapidly
than we presently anticipate. Furthermore, we incur additional costs associated with operating as a public company.
Accordingly, we will need to obtain substantial additional funding in connection with our continuing operations. If we are
unable to raise capital when needed or on attractive terms, we would be forced to delay, reduce or eliminate certain of our
research and development programs or future commercialization efforts, and may be unable to expand our operations or
otherwise capitalize on our business opportunities, as desired, which could materially affect our business, financial condition and
results of operations. In March 2023, in connection with our cost management and dynamic portfolio management initiatives,
we elected to pause new enrollment in this Phase 2 clinical trial, subject to additional funding. Despite this pause in patient
enrollment, we continue to expect to present initial clinical data in the fourth quarter of 2023. We expect that our existing cash
and cash equivalents will be sufficient to fund our current operating plan into the second fourth quarter of 2024. However, our
future capital requirements will depend on and could increase significantly as a result of many factors, including: • the scope,
progress, results and costs of product discovery, preclinical and clinical development, laboratory testing, manufacturing and
clinical trials for the development of CAN-2409, CAN-3110, or our other potential product candidates; • the timing of, and the
costs involved in, obtaining marketing approvals for CAN- 2409 in newly diagnosed localized prostate cancer, NSCLC, and
borderline resectable pancreatic cancer as well as for CAN-3110 in our initial target indication of recurrent high- grade glioma
(HGG) and our other potential product candidates that we may develop; • if approved, the costs of commercialization activities
for CAN- 2409 or CAN- 3110 for any approved indications or any other product candidate that receives regulatory approval to
the extent such costs are not the responsibility of a collaborator that we may contract with in the future, including the costs and
timing of establishing product sales, marketing, distribution and manufacturing capabilities : • the potential additional expenses
attributable to adjusting our development plans (including any supply related matters) to the COVID-19 pandemie; • the scope,
prioritization and number of our research and development programs; • the costs, timing and outcome of regulatory review of
our product candidates; • our ability to establish and maintain additional collaborations on favorable terms, if at all; • the
achievement of milestones or occurrence of other developments that trigger payments under any additional collaboration
agreements we may enter into; • the extent to which we are obligated to reimburse, or entitled to reimbursement of, clinical trial
costs under future collaboration agreements, if any; • the costs of preparing, filing and prosecuting patent applications,
maintaining and enforcing our intellectual property rights and defending intellectual property- related claims; • the extent to
which we acquire or in-license other product candidates and technologies; • the costs of securing manufacturing arrangements
for commercial production; • the emergence of competing viral immunotherapies as well as immuno- oncology therapies in
general and other adverse market developments; • the costs of establishing transitioning our clinical manufacturing operations
through CDMOs to our new facility; * the costs of establishing or contracting for sales and marketing capabilities if we obtain
regulatory approvals to market our product candidates; and • the impact of the COVID- 19 pandemic any future public health
crisis, which may exacerbate the magnitude of the factors discussed above. Identifying potential product candidates and
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conducting preclinical development testing and clinical trials is a time-consuming, expensive and uncertain process that takes
years to complete, and we may never generate the necessary data or results required to obtain marketing approval and achieve
product sales. In addition, our product candidates, if approved, may not achieve commercial success. Our commercial revenues,
if any, will be derived from sales of products that we do not expect to be commercially available for many years, if at all.
Accordingly, we will need to continue to rely on additional financing to achieve our business objectives. Any As of December
31, 2023, our cash and cash equivalents were $ 35.4 million. Based on our current business plan, there is substantial
doubt regarding our ability to continue as a going concern for a period of one year after the date that our financial
statements for the year ended December 31, 2023 are issued and we need to raise significant amounts of additional
fundraising---- funding to complete all of our ongoing trials and execute on our business plan. Financing may not be
available in sufficient amounts or on terms acceptable to us, if at all. Moreover, the terms of any financing may adversely
affect the holdings or the rights of our stockholders and the issuance of additional securities, whether equity or debt, by
us, or the possibility of such issuance, may cause the market price of our shares to decline. In addition, our efforts to raise
additional capital may divert our management from their day- to- day activities, which may adversely affect our ability to
develop and commercialize our product candidates . Disruptions in the financial markets in general, and more recently due to the
COVID-19 pandemic, have made equity and debt financing more difficult to obtain, and may have a timely manner material
adverse effect on our ability to meet our fundraising needs. We cannot guarantee that future financing will be available in
sufficient amounts or on terms acceptable to us, if at all. Moreover, the terms of any financing may adversely affect the holdings
or the rights of our stockholders and the issuance of additional securities, whether equity or debt, by us, or the possibility of such
issuance, may cause the market price of our shares to decline. The sale of additional equity or convertible securities would
dilute all of our stockholders. The incurrence of indebtedness would result in increased fixed payment obligations and we may
be required to agree to certain restrictive covenants, such as limitations on our ability to incur additional debt, limitations on our
ability to acquire, sell or license intellectual property rights and other operating restrictions that could adversely impact our
ability to conduct our business. We could also be required to seek funds through arrangements with collaborators or otherwise at
an earlier stage than otherwise would be desirable and we may be required to relinquish rights to some of our technologies or
product candidates or otherwise agree to terms unfavorable to us, any of which may have a material adverse effect on our
business, operating results and prospects. If we are unable to obtain adequate funding at acceptable terms on a timely basis, we
may be required to significantly revise our business plan and strategy and potentially curtail, delay, or discontinue one or
more of our clinical trials, our research or efforts, product development programs, future our manufacturing operations or the
commercialization of any product candidate efforts, or may result in or our be being unable to expand our operations or
otherwise capitalize on our business opportunities. As a result, our business, financial condition and results of operations
could be materially affected. Our corporate restructuring and the associated headcount reduction may not result in
anticipated savings, could result in total costs and expenses that are greater than expected and could disrupt our
business. In November 2023, we undertook an organizational restructuring that significantly reduced our workforce. We
may not realize, in full or in part, the anticipated benefits, savings and improvements in our cost structure from our
restructuring efforts due to unforeseen difficulties, delays or unexpected costs. If we are unable to realize the expected
operational efficiencies and cost savings from the restructuring, our operating results and financial condition would be
adversely affected. Furthermore, our restructuring plan may be disruptive to our operations. For example, our
headcount reductions could yield unanticipated consequences, such as desired increased difficulties in implementing our
business strategy, including retention of our remaining employees. Our restructuring may lead to employee litigation
related to the headcount reduction, which could <del>materially affect our be costly and prevent management from fully</del>
concentrating on the business. Any future growth would impose significant added responsibilities on members of
management, including the need to identify, recruit, maintain and integrate additional employees. Due to our limited
resources, we may not be able to effectively manage our operations or recruit and retain qualified personnel, which may
result in weaknesses in our infrastructure and operations, risks that we may not be able to comply with legal and
regulatory requirements, and loss of employees and reduced productivity among remaining employees. For example, the
workforce reduction may negatively impact our clinical, regulatory, technical operations, and commercial functions,
should we choose to continue to pursue them, which would have a negative impact on our ability to successfully develop,
and ultimately, commercialize our product candidates. Our future financial <del>condition performance</del> and <del>results of</del>
operations our ability to develop our product candidates or additional assets will depend, in part, on our ability to
effectively manage any future growth or restructuring, as the case may be . On February 24, 2022, we entered into a loan
and security agreement (the SVB-Loan Agreement) with Silicon Valley Bank, as lender (SVB), pursuant to which SVB has
agreed to provide term loans to us in an aggregate principal amount of up to $ 25. 0 million. Our indebtedness could have
important consequences to our stockholders. For example, it: • increases our vulnerability to adverse general economic and
industry conditions; • limits our flexibility in planning for, or reacting to, changes in our business or the industries in which we
operate by restricting our ability to make acquisitions, investments or divestments, or take other corporate actions quickly; and •
limits our ability to obtain additional financing or refinancing in the future for working capital, clinical trials, research and
development, or other purposes. Any of the above- listed factors could materially adversely affect our business, financial
condition, results of operations, and cash flows. The SVB-Loan Agreement also contains certain covenants, including limitations
on, among other things, additional indebtedness, making certain dispositions, paying dividends in certain circumstances, and
making certain acquisitions and investments. Any failure to comply with the terms, covenants and conditions of the SVB-Loan
Agreement may limit our ability to draw upon additional tranches of term loans and may result in an event of default under such
agreement entitling the lender to accelerate our indebtedness, which could have a material adverse effect on our business,
financial condition, and results of operations. Recent increases in interest rates have increased our borrowing costs and may also
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affect our ability to obtain working capital through borrowings such as bank credit lines and public or private sales of debt securities, which may result in lower liquidity, reduced working capital and other adverse impacts on our business. A portion of our outstanding debt under the SVB-Loan Agreement, bears interest at variable interest rates. To meet our liquidity needs, we have relied in part on borrowed funds with variable interest rates and may continue to do so in the future. Continued increase in interest rates may increase the cost of new indebtedness and the servicing of our outstanding indebtedness, and could materially and adversely affect our results of operations, financial condition, liquidity and cash flows. Adverse developments affecting the financial services industry, such as actual events or concerns involving liquidity, defaults, or non-performance by financial institutions or transactional counterparties, could adversely affect our current and projected business operations and our financial condition and results of operations. Actual events involving limited liquidity, defaults, non-performance or other adverse developments that affect financial institutions, transactional counterparties or other companies in the financial services industry or the financial services industry generally, or concerns or rumors about any events of these kinds or other similar risks, have in the past and may in the future lead to market- wide liquidity problems. For example, on March 10, 2023, SVB was closed by the California Department of Financial Protection and Innovation, which appointed the Federal Deposit Insurance Corporation (FDIC) as receiver. Similarly, on March 12, 2023, Signature Bank and Silvergate Capital Corp. were each swept into receivership. Although a statement by the Department of the Treasury, the Federal Reserve and the FDIC indicated that all depositors of SVB would have access to all of their money after only one business day of closure, including funds held in uninsured deposit accounts, borrowers under credit agreements, letters of credit and certain other financial instruments with SVB, Signature Bank or any other financial institution that is placed into receivership by the FDIC may be unable to access undrawn amounts thereunder. If any of our lenders or counterparties to any such instruments were to be placed into receivership, we may be unable to access such funds. We currently have a \$ 20 million loan outstanding pursuant to a \$ 25 million term loan facility with SVB, which was entered into in February 2022 and amended in June 2023. We There can be no longer assurance that we will continue to have access to borrow the balance \$ 5 million of such additional aggregate principle per the terms of the loan Loan Agreement. In addition, if any of our customers, suppliers or other parties with whom we conduct business are unable to access funds pursuant to such instruments or lending arrangements with such a financial institution, such parties' ability to pay their obligations to us or to enter into new commercial arrangements requiring additional payments to us could be adversely affected. In this regard, counterparties to SVB credit agreements and arrangements, such as us, and third parties such as beneficiaries of letters of credit (among others), may experience direct impacts from the closure of SVB, and uncertainty remains over liquidity concerns in the broader financial services industry. Similar impacts have occurred in the past, such as during the 2008-2010 financial crisis. Inflation and rapid increases in interest rates have led to a decline in the trading value of previously issued government securities with interest rates below current market interest rates. Although the U. S. Department of Treasury, FDIC and Federal Reserve Board have announced a program to provide up to \$25 billion of loans to financial institutions secured by certain of such government securities held by financial institutions to mitigate the risk of potential losses on the sale of such instruments, widespread demands for customer withdrawals or other liquidity needs of financial institutions for immediately liquidity may exceed the capacity of such program. Additionally, there is no guarantee that the U.S. Department of Treasury, FDIC and Federal Reserve Board will provide access to uninsured funds in the future in the event of the closure of other banks or financial institutions, or that they would do so in a timely fashion. Although we assess our banking and customer relationships as we believe necessary or appropriate, our access to funding sources and other credit arrangements in amounts adequate to finance or capitalize our current and projected future business operations could be significantly impaired by factors that affect us, the financial institutions with which we have credit agreements or arrangements directly, or the financial services industry or economy in general. These factors could include, among others, events such as liquidity constraints or failures, the ability to perform obligations under various types of financial, credit or liquidity agreements or arrangements, disruptions or instability in the financial services industry or financial markets, or concerns or negative expectations about the prospects for companies in the financial services industry. These factors could involve financial institutions or financial services industry companies with which we have financial or business relationships, but could also include factors involving financial markets or the financial services industry generally. The results of events or concerns that involve one or more of these factors could include a variety of material and adverse impacts on our current and projected business operations and our financial condition and results of operations. These could include, but may not be limited to, the following: • Delayed access to deposits or other financial assets or the uninsured loss of deposits or other financial assets; • Delayed or lost access to, or reductions in borrowings available under revolving existing credit facilities or other working capital sources and / or delays, inability or reductions in our ability to refund, roll over or extend the maturity of, or enter into new credit facilities or other working capital resources; • Potential or actual breach of contractual obligations that require us to maintain letters of credit or other credit support arrangements; • Potential or actual breach of financial covenants in our credit agreements or credit arrangements; • Potential or actual cross- defaults in other credit agreements, credit arrangements or operating or financing agreements; or • Termination of cash management arrangements and / or delays in accessing or actual loss of funds subject to cash management arrangements. In addition, investor concerns regarding the U. S. or international financial systems could result in less favorable commercial financing terms, including higher interest rates or costs and tighter financial and operating covenants, or systemic limitations on access to credit and liquidity sources, thereby making it more difficult for us to acquire financing on acceptable terms or at all. Any decline in available funding or access to our cash and liquidity resources could, among other risks, adversely impact our ability to meet our operating expenses, financial obligations or fulfill our other obligations, result in breaches of our financial and or contractual obligations or result in violations of federal or state wage and hour laws. Any of these impacts, or any other impacts resulting from the factors described above or other related or similar factors not described above, could have material adverse impacts on our liquidity and our current and or projected business operations and financial condition and results of operations. In addition, any further deterioration in the macroeconomic economy or financial services industry could

lead to losses or defaults by our customers or suppliers, which in turn, could have a material adverse effect on our current and / or projected business operations and results of operations and financial condition. For example, a customer may fail to make payments when due, default under their agreements with us, become insolvent or declare bankruptcy, or a supplier may determine that it will no longer deal with us as a customer. In addition, a customer or supplier could be adversely affected by any of the liquidity or other risks that are described above as factors that could result in material adverse impacts on us, including but not limited to delayed access or loss of access to uninsured deposits or loss of the ability to draw on existing credit facilities involving a troubled or failed financial institution. Any customer or supplier bankruptcy or insolvency, or the failure of any customer to make payments when due, or any breach or default by a customer or supplier, or the loss of any significant supplier relationships, could result in material losses to us and may have a material adverse impact on our business. Risks Related to Product Development Our business is dependent on the success of our most advanced product candidate, CAN-2409, as well as CAN-3110 and any other product candidates that we advance into the clinic. All of our product candidates will require additional development before we may be able to seek regulatory approval for and launch a **product commercially.** We currently have no products that are approved for commercial sale and may never be able to develop marketable products. We expect that a substantial portion of our efforts and expenditures over the next several years will be devoted to our CAN- 2409 program, which is currently our lead most advanced product candidate. We are currently conducting, as part of our most advanced CAN-2409 program, a Phase 3 clinical trial under an SPA for CAN-2409 as first-line neoadjuvant therapy in patients with newly diagnosed localized prostate cancer who have an intermediate to high-risk for progression. We completed enrollment for this trial in September 2021 and expect to present topline data at the end of 2024. We are conducting a Phase 2 clinical trial of CAN-2409 in patients with NSCLC who had an inadequate response to ICI and continue the same ICI in combination with CAN-2409. We presented initial clinical data from this clinical trial at the ASCO Annual Meeting in June 2022 and an update during our Research and Development Day in December 2022. We are also studying CAN-2409 in a randomized Phase 2 clinical trial in pancreatic cancer, which we elected to pause in March 2023, subject to additional funding. Additionally, we have an ongoing investigator-sponsored Phase 1 clinical trial of CAN-3110, our most advanced HSV- based product candidate, in recurrent HGG and reported additional biomarker results in November of 2021. Additional data was presented at SITC in November 2022 and during the Company's Research and Development Day on December 6, 2022. If CAN- 2409, CAN- 3110 or any other product candidate we develop encounters safety or efficacy issues, development delays, regulatory issues or other problems, our development plans and business would be significantly harmed. We can provide no assurance that CAN- 2409, CAN- 3110 or any other product candidates we develop will receive regulatory approval or be successfully commercialized even if we receive regulatory approval. If we were required to discontinue development of CAN- 2409, CAN- 3110 or any future product candidate, or if CAN- 2409, CAN- 3110, or any future product candidate do not receive regulatory approval or fail to achieve significant market acceptance, we would be delayed by many years in our ability to achieve profitability, if ever. Furthermore, even if we obtain regulatory approval for CAN- 2409, CAN-3110 or any other product candidates we develop, we will still need to develop a commercial infrastructure, expand our manufacturing capabilities or develop relationships with collaborators to commercialize, establish a commercially viable pricing structure and obtain coverage and adequate reimbursement from third- party payors, including government healthcare programs. If we, or any future collaborators, are unable to successfully commercialize CAN-2409, CAN-3110 or any other product candidates we develop, we may not be able to generate sufficient revenue to continue our business. Before obtaining regulatory approvals for the commercial sale of our product candidates, including CAN- 2409, CAN- 3110 or any other product candidates we develop, we must demonstrate the safety and efficacy of our product candidates for use in each target indication through lengthy, complex, and expensive preclinical studies and clinical trials. Failure can occur at any time during the preclinical study and clinical trial processes and there is a high risk of failure, so we may never succeed in developing marketable products. Any preclinical studies or clinical trials that we may conduct may not demonstrate the safety and efficacy necessary to obtain regulatory approval to market any of our product candidates. If the results of our ongoing or future preclinical studies and clinical trials are inconclusive with respect to the safety or efficacy of our product candidates, if we do not meet the clinical endpoints with statistical and clinically meaningful significance, or if there are safety concerns associated with our product candidates, we may be prevented or delayed in obtaining marketing approval for such product candidates. In some instances, there can be significant variability in safety or efficacy results between different preclinical studies and clinical trials of the same product candidate due to numerous factors, including changes in trial procedures set forth in protocols, differences in the size and type of the patient populations, changes in and adherence to the clinical trial protocols and the rate of dropout among clinical trial participants. While we are currently in a **Phase phase** 3 clinical trial for CAN- 2409 for prostate cancer and are in early stages of clinical development for CAN-3110, it is likely, as is the case with many oncology therapies, that there may be side effects associated with their use. Results of our trials could reveal a high and unacceptable severity and prevalence of side effects. In such an event, our trials could be suspended or terminated, and the FDA or comparable foreign regulatory authorities could order us to cease further development of or deny approval of our product candidates for any or all targeted indications. Treatment- related side effects could also affect patient recruitment or the ability of enrolled patients to complete the clinical trial or result in potential product liability claims. Any of these occurrences may harm our business, financial condition and prospects significantly. Our product candidates have caused side effects in clinical trials related to on- target toxicity such as fever, chills and muscle aches and other flu- like symptoms. The most common side effects observed in our clinical trials have been transient, injection site- related **reactions, and** flu- like symptoms. The specific symptoms are largely dependent on the tumor site (site of injection). Patients who have participated in our trials have experienced grade 3 and grade 4 treatment- related side effects, including blood abnormalities. Those include pyrexia, genitourinary toxicity, increased aspartate transaminase / alanine transaminase (AST / ALT), increased bilirubin, hemiparesis, or worsening of speech impairment (in studies of HGG), insomnia, headache, wound complications, empyema, motor-neuropathy symptoms / signs, transient lymphopenia, dehydration

with renal insufficiency, urinary retention, worsening abdominal pain and increased lipase. Different nomenclature for the same side effect can be used in different trials (i. e. lymphopenia or low lymphocyte count). If on-target toxicity is observed at unacceptable levels, or if our product candidates have characteristics that are unexpected, we may need to abandon their development or limit development to more narrow uses or subpopulations in which the undesirable side effects or other characteristics are less prevalent, less severe or more acceptable from a risk-benefit perspective. In addition, our product candidates could cause undesirable side effects that we have not observed yet to date. Many compounds that initially showed promise in early- stage testing for treating cancer have later been found to cause side effects that prevented further development of the compound. In addition to our ongoing clinical trials of CAN- 2409 and CAN- 3110, patients have been, and may continue to be, treated with CAN- 2409 and / or CAN- 3110 under an expanded access or "compassionate use" program. To the extent the experiences of patients being treated in this program are inconsistent with or less favorable than the results of our ongoing or planned company- sponsored trials with CAN- 2409 and / or CAN- 3110, it may negatively affect perceptions of CAN- 2409 and / or CAN-3110, our other product candidates, or our business. In addition, the FDA or comparable foreign regulatory authorities may require us to obtain and submit additional clinical data due to these inconsistent or unfavorable results, which could delay clinical development or marketing approval of CAN- 2409 and / or CAN- 3110 or potentially our other product candidates. Interim, topline and preliminary data from our clinical trials that we announce or publish from time to time may change as more patient data become available and are subject to regulatory audit and verification procedures that could result in material changes in the final data. From time to time, we may publish interim, topline or preliminary data from our clinical trials. We may decide to conduct an interim analysis of the data after a certain number or percentage of patients have been enrolled, or after only a part of the full follow- up period but before completion of the trial. Similarly, we may report topline or preliminary results of primary and key secondary endpoints before the final trial results are completed. Preliminary, topline and interim data from our clinical trials may change as more patient data or analyses become available. Preliminary, topline or interim data from our clinical trials are not necessarily predictive of final results and are subject to the risk that one or more of the clinical outcomes may materially change as patient enrollment continues, more patient data become available and we issue our final clinical trial report. These data also remain subject to audit and verification procedures that may result in the final data being materially different from the preliminary data we previously published. As a result, preliminary, interim and topline data should be viewed with caution until the final data are available. Material adverse changes in the final data compared to the interim data could significantly harm our business prospects. Further, others, including regulatory agencies, may not accept or agree with our assumptions, estimates, calculations, conclusions or analyses or may interpret or weigh the importance of data differently, which could impact the value of the particular program, the approvability or commercialization of the particular product candidate or product and our company in general. In addition, the information we choose to publicly disclose regarding a particular study or clinical trial is based on what is typically extensive information, and you or others may not agree with what we determine is material or otherwise appropriate information to include in our disclosure. If the interim, topline, or preliminary data that we report differ from more complete results, or if others, including regulatory authorities, disagree with the conclusions reached, our ability to obtain marketing authorization for, and commercialize, our product candidates may be harmed, which could harm our business, operating results, prospects or financial condition. We may not be successful in our efforts to identify additional product candidates or indications. Due to our limited resources and access to capital, we must prioritize development of certain product candidates and indications; these decisions may prove to be wrong and may adversely affect our business. Although we intend to explore other therapeutic opportunities, in addition to the product candidates and indications that we are currently developing, we may fail to identify successful product candidates or additional indications for clinical development for a number of reasons. If we fail to identify additional potential product candidates or indications for development, our business could be materially harmed. Research programs to pursue the development of our planned product candidates for additional indications and to identify new product candidates and disease targets require substantial technical, financial and human resources whether or not they are ultimately successful. Our research programs may initially show promise in identifying potential indications and / or product candidates, yet fail to yield results for clinical development for a number of reasons, including: • the research methodology used may not be successful in identifying potential indications and / or product candidates; • potential product candidates may, after further study, be shown to have harmful adverse effects or other characteristics that indicate they are unlikely to be effective drugs; or • it may take greater human and financial resources than we possess to identify additional therapeutic opportunities for our product candidates or to develop suitable potential product candidates through internal research programs, thereby limiting our ability to develop, diversify and expand our product portfolio. Because we have limited financial and human resources, we intend to initially focus on research programs and product candidates for a limited set of indications. As a result, we may forego or delay pursuit of opportunities with other product candidates or for other indications that later prove to have greater commercial potential or a greater likelihood of success. Our resource allocation decisions may cause us to fail to capitalize on viable commercial products or profitable market opportunities. For example, at the 37th-Annual Meeting of Society for Immunotherapy of Cancer (SITC) in Boston in November 2022, due to promising clinical activity of CAN- 3110 in recurrent HGG, we made a portfolio and resource decision to prioritize CAN- 3110 in recurrent HGG and not to pursue a Phase phase 3 clinical trial of CAN- 2409 in HGG. Accordingly, there can be no assurance that we will ever be able to identify additional therapeutic opportunities for our product candidates or to develop suitable potential product candidates through internal research programs, which could materially adversely affect our future growth and prospects. We may focus our efforts and resources on potential product candidates or other potential programs that ultimately prove to be unsuccessful. Results of earlier studies and trials of our product candidates may not be predictive of future trial results. Success in preclinical studies and early clinical trials does not ensure that later clinical trials will be successful. Product candidates in later stages of clinical trials may fail to show the desired safety and efficacy traits despite having progressed through preclinical studies and initial clinical trials. As we commence new clinical trials and continue our ongoing

clinical trials, issues may arise that could suspend or terminate such clinical trials. A number of companies in the biotechnology and pharmaceutical industries have suffered significant setbacks in clinical trials, even after positive results in earlier preclinical studies or clinical trials. These setbacks have been caused by, among other things, preclinical findings made while clinical trials were underway and safety or efficacy observations made in clinical trials, including previously unreported adverse events. Notwithstanding any potential promising results in earlier studies and trials, we cannot be certain that we will not face similar setbacks. In addition, the results of our preclinical animal studies, including our oncology mouse studies and other animal studies, may not be predictive of the results of outcomes in human clinical trials. For example, our oncology product candidates that are in preclinical development may demonstrate different chemical and biological properties in patients than they do in laboratory animal studies or may interact with human biological systems in unforeseen or harmful ways. Additionally, some of past, ongoing and planned clinical trials utilize an "open-label" study design including our NSCLC trial in combination with ICI. An "open-label" clinical trial is one where both the patient and investigator know whether the patient is receiving the investigational product candidate or either an existing approved drug or placebo. Most typically, open-label clinical trials test only the investigational product candidate and sometimes may do so at different dose levels. Open-label clinical trials are subject to various limitations that may exaggerate any therapeutic effect, as patients in open-label clinical trials are aware when they are receiving treatment. Open-label clinical trials may be subject to a "patient bias" where patients perceive their symptoms to have improved merely due to their awareness of receiving an experimental treatment. Moreover, patients selected for early clinical studies often include the most severe sufferers and their symptoms may have improved notwithstanding the new treatment. In addition, open-label clinical trials may be subject to an "investigator bias" where those assessing and reviewing the physiological outcomes of the clinical trials are aware of which patients have received treatment and may interpret the information of the treated group more favorably given this knowledge. The results from an open-label trial may not be predictive of future clinical trial results with any of our product candidates for which we include an open-label clinical trials when studied in a controlled environment with a placebo or active control. We have concentrated our research and development efforts on our CAN- 2409 and CAN- 3110 product candidates, and our future success largely depends on the successful development of these therapeutic approaches. In particular, CAN- 2409 utilizes an adenovirus to activate the innate and adaptive immune system. To our knowledge, there are no FDA- approved products for the treatment of cancer that utilize the adenovirus. We expect the novel nature of our product candidates to create further challenges in obtaining regulatory approval. Few viral immunotherapies have been approved globally or by the FDA to date. While the first oncolytic viral immunotherapy, talimogene laherparepvec (Imlygic, Amgen), has received FDA approval, regulatory agencies have reviewed relatively few viral immunotherapy product candidates such as CAN- 2409 and CAN- 3110. This may lengthen the regulatory review process, increase our development costs and delay or prevent commercialization of our product candidates. Further, any viral immunotherapies that are approved may be subject to extensive post-approval regulatory requirements, including requirements pertaining to manufacturing, distribution and promotion. We may need to devote significant time and resources to compliance with these requirements. The FDA may also require a panel of experts, referred to as an advisory committee, to deliberate on the adequacy of the safety and efficacy data to support licensure. The opinion of the advisory committee, although not binding, may have a significant impact on our ability to obtain licensure of the product candidates based on the completed clinical trials, as the FDA often adheres to the advisory committee's recommendations. Accordingly, the regulatory approval pathway for our product candidates may be uncertain, complex, expensive and lengthy, and approval may not be obtained. In addition, our product candidates are live, gene- modified viruses for which the FDA, the **European Medicines Agency** (EMA) and other comparable foreign regulatory authorities and other public health authorities, such as the Centers of Disease Control and Prevention and hospitals involved in clinical studies, have established additional safety and contagion rules and procedures. which could establish additional hurdles for the development, manufacture or use of our vectors. These hurdles may lead to delays in the conduct of clinical trials or in obtaining regulatory approvals for further development, manufacturing or commercialization of our product candidates. We may also experience delays in transferring our process to commercial partners, which may prevent us from completing our clinical trials or commercializing our product candidates on a timely or profitable basis, if at all. Furthermore, there has been limited historical clinical trial experience for the development of products that utilize the adenovirus. Moreover, the design and conduct of our clinical trials differs from the design and conduct of previously conducted clinical trials in this area. In particular, regulatory authorities in the United States and in other jurisdictions, including Europe, have not issued definitive guidance as to how to measure and demonstrate efficacy in newly diagnosed localized prostate cancer in intermediate- to high-risk patients in combination with the standard of care (SoC). As a result, there is substantial risk that the design or outcomes of our clinical trials will not be satisfactory to support marketing approval. For example, the endpoint in our Phase-<mark>phase</mark> 3 clinical trial with investigating CAN- 2409 in prostate cancer is a disease- free survival (DFS) endpoint with final results expected 24 months after last patient treated, which has not been utilized in prior trials and may not be accepted by regulators as a basis for approval despite the existence of the SPA. Even if this type of novel endpoint is accepted as a basis for approval in the United States, we cannot be certain that regulators outside of the United States will accept such endpoints or will not require us to conduct additional validation studies to support the suitability of such endpoints for approval in these jurisdictions. We are developing, and in the future may develop, other product candidates, in combination with other therapies, which exposes us to additional risks related to any prodrugs or any agents used in combination with our product candidates. Our CAN- 2409 product candidate is being developed to be used in combination with the prodrug valacyclovir, which is a an oral small molecule drug marketed for treatment of herpes infections. In the future, we may develop other product candidates to be used with one or more currently approved other therapies. Even if any product candidate we develop were to receive marketing approval or be commercialized for use in combination with other existing therapies, we would continue to be subject to the risks that the FDA or comparable foreign regulatory authorities could revoke approval of the therapy used in combination with our product candidate or that safety, efficacy, manufacturing or supply issues could arise with

these existing therapies. Combination therapies are commonly used for the treatment of cancer, and we would be subject to similar risks if we develop any of our product candidates for use in combination with other drugs or for indications other than cancer. This could result in our own products being removed from the market or being less successful commercially. If the FDA or comparable foreign regulatory authorities revoke their approval of these other drugs or revoke their approval of, or if safety, efficacy, manufacturing or supply issues arise with, the drugs we choose to evaluate in combination with any product candidate we develop, we may be unable to obtain approval. We may also evaluate our future product candidates in combination with one or more other cancer therapies that have not yet been approved for marketing by the FDA or comparable foreign regulatory authorities. We will not be able to market any product candidate we develop in combination with any such unapproved cancer therapies that do not ultimately obtain marketing approval. In addition, unapproved therapies face the same risks described with respect to our product candidates currently in development and clinical trials, including the potential for serious adverse effects, delays in their clinical trials and lack of FDA approval. Negative developments in the field of immuno- oncology and, in particular, viral immunotherapy, could damage public perception of any of our product candidates and negatively affect our business. The commercial success of adenovirus- or HSV- based product candidates will depend in part on public acceptance of the use of immuno- oncology, and, in particular, viral immunotherapy. Adverse events in clinical trials of CAN- 2409, CAN-3110 or any other adenovirus- or HSV- based product candidates which we may develop, or in clinical trials of others developing similar products and the resulting publicity, as well as any other negative developments in the field of immunooncology that may occur in the future, including in connection with competitor therapies, could result in a decrease in demand for any adenovirus- or HSV- based product candidates that we may develop. These events could also result in the suspension, discontinuation, or clinical hold of or modification to our clinical trials. If public perception is influenced by claims that the use of viral immunotherapies is unsafe, whether related to our therapies or those of our competitors, our product candidates may not be accepted by the general public or the medical community and potential clinical trial subjects may be discouraged from enrolling in our clinical trials. In addition, responses by national or state governments to negative public perception may result in new legislation or regulations that could limit our ability to develop or commercialize any product candidates, obtain or maintain regulatory approval or otherwise achieve profitability. More restrictive statutory regimes, government regulations or negative public opinion would have an adverse effect on our business, financial condition, prospects and results of operations and may delay or impair the development and commercialization of our product candidates or demand for any products we may develop. As a result, we may not be able to continue or may be delayed in conducting our development programs. Our product candidates consist of modified viruses. Adverse developments in clinical trials of other immunotherapy products based on viruses, like oncolytic viruses, may result in a disproportionately negative effect for our technologies as compared to other products in the field of infectious disease and immuno- oncology that are not based on viruses. Future negative developments in the biopharmaceutical industry could also result in greater governmental regulation, stricter labeling requirements and potential regulatory delays in the testing or approvals of our products. Any increased scrutiny could delay or increase the costs of obtaining marketing approval for our product candidates. Difficulty in enrolling patients could delay or prevent clinical trials of our product candidates, and ultimately delay or prevent regulatory approval. Identifying and qualifying patients to participate in clinical trials of our product candidates is critical to our success. The timing of completion of our clinical trials depends in part on the speed at which we can recruit patients to participate in testing our product candidates, and we may experience delays in our clinical trials if we encounter difficulties in enrollment. We may not be able to initiate or continue clinical trials for our product candidates if we are unable to locate and enroll a sufficient number of eligible patients to participate in these trials as required by the FDA or comparable foreign regulatory authorities, or as needed to provide appropriate statistical power for a given trial. In particular, because we are focused on patients with brain cancer for the development of CAN-2409 and CAN-3110 , our ability to enroll eligible patients may be limited or enrollment may be slower than we anticipate due to the small eligible patient population. In addition, our ability to enroll patients may be delayed by the COVID-19 pandemic any future public health crisis and we are unable to predict the full extent and scope of such delays. In addition to the potentially small target populations for our planned clinical trials, particularly in brain cancer, the eligibility criteria will further limit the pool of available trial participants as we will require that patients have specific characteristics, such as a certain severity or stage of disease progression, to include them in a trial. Additionally, the process of finding eligible patients may prove costly. We also may not be able to identify, recruit, and enroll a sufficient number of patients to complete our clinical trials because of the perceived risks and benefits of the product candidate under evaluation, the availability and efficacy of competing therapies and clinical trials, the proximity and availability of clinical trial sites for prospective patients, the availability of genetic sequencing information for patient tumors so that we can identify patients with the targeted genetic mutations, and the patient referral practices of physicians. If patients are unwilling to participate in our studies for any reason, the timeline for recruiting patients, conducting studies, and obtaining regulatory approval of potential products may be delayed. The enrollment of patients further depends on many factors, including: • the proximity of patients to clinical trial sites; • patient referral practices of physicians; • the design of the clinical trial, including the number of site visits and invasive assessments required; • our ability to recruit clinical trial investigators with the appropriate competencies and experience; • our ability to obtain and maintain patient consents; • reporting of the preliminary results of any of our clinical trials; • the risk that patients enrolled in clinical trials will drop out of the clinical trials before clinical trial completion; and • factors we may not be able to control, such as the COVID-19 pandemie any future public health crisis, that may limit patient participation, hiring of principal investigators or staff or clinical site availability. 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 clinical trials may instead opt to enroll in a clinical trial being conducted by one of our competitors. Since the number of qualified clinical investigators is limited, we expect to conduct some of our clinical trials at the same clinical trial sites that some of our competitors use, which will reduce the number of patients

who are available for our clinical trials at such clinical trial sites. Moreover, because certain of our product candidates represent a departure from more commonly used methods for cancer treatment and because certain of our product candidates have not been tested in humans before, potential patients and their doctors may be inclined to use conventional therapies, such as chemotherapy, rather than enroll patients in any future clinical trial of our product candidates. If we experience delays in the completion of, or termination of, any clinical trial of our product candidates, the commercial prospects of our product candidates will be harmed, and our ability to generate product revenue from any of these product candidates could be delayed or prevented. The commercial success of our current or future product candidates, if approved by the FDA or other applicable regulatory authorities, will depend upon the awareness and acceptance of our current or future product candidates among the medical community, including physicians, patients and healthcare payors. Market acceptance of our current or future product candidates, if approved, will depend on a number of factors, including, among others: • the efficacy of our current or future product candidates as demonstrated in clinical trials, and, if required by any applicable regulatory authority in connection with the approval for the applicable indications, to provide patients with incremental health benefits, as compared to other available medicines; • limitations or warnings contained in the labeling approved for our current or future product candidates by the FDA or other applicable regulatory authorities; • the prevalence and severity of adverse events associated with our product candidates or those products with which they may be co-administered in immuno-oncology and, in particular, viral immunotherapies; • the clinical indications for which our current or future product candidates are approved; • availability of alternative treatments already approved or expected to be commercially launched in the near future; • the potential and perceived advantages of our current or future product candidates over current treatment options or alternative treatments, including future alternative treatments; • the willingness of the target patient populations to try new therapies or treatment methods and of physicians to prescribe these therapies or methods in immuno- oncology and, in particular, viral immunotherapies; • the need to dose such product candidates in combination with other therapeutic agents, and related costs; • the strength of marketing and distribution support and timing of market introduction of competitive products; • publicity concerning our products or competing products and treatments; • pricing and cost effectiveness; • the effectiveness of our sales and marketing strategies; • our ability to increase awareness of our current or future product candidates; • our ability to obtain sufficient third-party coverage or reimbursement; • the ability or willingness of patients to pay out- of- pocket in the absence of third- party coverage; and • potential product liability claims. If our current or future product candidates are approved but do not achieve an adequate level of acceptance by patients, physicians and payors, we may not generate sufficient revenue from our current or future product candidates to become or remain profitable. Before granting reimbursement approval, healthcare payors may require us to demonstrate that our current or future product candidates, in addition to treating these target indications, also provide incremental health benefits to patients. Our efforts to educate the medical community, patient organizations and third-party payors about the benefits of our current or future product candidates may require significant resources and may never be successful. We face substantial competition, which may result in others discovering, developing or commercializing product candidates before or more successfully than we do. The development and commercialization of new product candidates is highly competitive. We face competition from major pharmaceutical, specialty pharmaceutical and biotechnology companies among others with respect to CAN-2409 and CAN-3110 and will face similar competition with respect to any product candidates that we may seek to develop or commercialize in the future. We compete in pharmaceutical, biotechnology and other related markets that develop immuno- oncology therapies for the treatment of cancer. There are other companies working to develop viral immunotherapies for the treatment of cancer including divisions of large pharmaceutical and biotechnology companies of various sizes. The large pharmaceutical and biotechnology companies that have commercialized and / or are developing immuno- oncology treatments for cancer include AstraZeneca, Bristol- Myers Squibb, Gilead Sciences, Merck, Novartis, Pfizer, Regeneron and Roche / Genentech, Some of the products and therapies developed by our competitors are based on scientific approaches that are the same as or similar to our approach, including with respect to the use of viral immunotherapy with adenovirus and HSV. Other competitive products and therapies are based on entirely different approaches. We are aware that Oneorus, Replimune, Amgen, ImmaVira, FerGene and IconOVir, among others, are developing viral immunotherapies that may have utility for the treatment of indications that we are targeting. 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. Many of the companies we compete against or may compete against 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 and biotechnology industries may result in concentration of even more resources 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, in establishing clinical trial sites and enrolling subjects for our clinical trials and in acquiring technologies complementary to, or necessary for, our programs. Risks Related to Government Regulation and Commercialization of Our Product Candidates The regulatory approval processes of the FDA and comparable foreign regulatory authorities are lengthy, time- consuming and inherently unpredictable. If we are not able to obtain, or experience delays in obtaining, required regulatory approvals, we will not be able to commercialize CAN-2409, CAN-3110 and future product candidates as expected, and our ability to generate revenue may be materially impaired. The time required to obtain approval by the FDA and comparable foreign regulatory authorities is unpredictable but typically takes many years following the commencement of clinical trials and depends upon numerous factors, including the substantial discretion of the regulatory authorities. In addition, approval policies, regulations, or the type and amount of clinical data necessary to gain approval may change during the course of a product candidate's clinical development and may vary among jurisdictions. These regulatory requirements may require us to amend our clinical trial protocols, including to comply with the

protocols of any applicable SPA we receive from the FDA; conduct additional preclinical studies or clinical trials that may require regulatory or independent IRB approval; or otherwise cause delays in obtaining approval or rejection of an application. Any delay in obtaining or failure to obtain required approvals could materially adversely affect our ability to generate revenue from the particular product candidate, which may materially harm our business, financial condition, results of operations, stock price and prospects. Regulatory authorities have substantial discretion in the approval process and may refuse to accept any application or may decide that our data are insufficient for approval and require additional preclinical, clinical or other studies. In addition, varying interpretations of the data obtained from preclinical and clinical testing could delay, limit or prevent marketing approval of a product candidate. The number and types of preclinical studies and clinical trials that will be required for regulatory approval also varies depending on the product candidate, the disease or condition that the product candidate is designed to address, and the regulations applicable to any particular product candidate. Approval policies, regulations or the type and amount of clinical data necessary to gain approval may change during the course of a product candidate's clinical development and may vary among jurisdictions, and there may be varying interpretations of data obtained from preclinical studies or clinical trials, any of which may cause delays or limitations in the approval or a decision not to approve an application. It is possible that CAN- 2409, CAN- 3110 and future product candidates will never obtain the appropriate regulatory approvals necessary for us to commence product sales. If we experience delays in obtaining approval, if we fail to obtain regulatory approval of CAN- 2409, CAN- 3110 or any future product candidate or if the label for a product candidate does not include the labeling claims necessary or desirable for the successful commercialization of that product candidate, the commercial prospects for such product candidate may be harmed and our ability to generate revenues from that product candidate may be materially impaired. CAN- 2409, CAN- 3110 or future product candidates may cause undesirable side effects or have other properties that could delay or prevent their regulatory approval, limit the commercial profile of an approved label, or result in significant negative consequences following marketing approval, if any. Serious adverse events or undesirable side effects caused by CAN-2409, CAN-3110 and future product candidates could cause us, IRBs, and other reviewing entities or regulatory authorities to interrupt, delay, or halt clinical trials and could result in a more restrictive label or the delay or denial of regulatory approval by the FDA or comparable foreign regulatory authorities. For example, if concerns are raised regarding the safety of a new therapeutic as a result of undesirable side effects identified during clinical or preclinical testing, the FDA or comparable foreign regulatory authority may order us to cease further development, decline to approve the product candidate or issue a letter requesting additional data or information prior to making a final decision regarding whether or not to approve the product candidate. The FDA or comparable foreign regulatory authorities, or IRBs and other reviewing entities, may also require, or we may voluntarily develop, strategies for managing adverse events during clinical development, which could include restrictions on our enrollment criteria, the use of stopping criteria, adjustments to a study's design, or the monitoring of safety data by a data monitoring committee, among other strategies. For example, patients enrolled in our ongoing clinical trials of CAN-2409 and CAN-3110 have experienced mild to moderate adverse events, consisting mainly of flu-like symptoms and injection site reactions. In response to these adverse events, we have implemented prophylactic measures, including intravenous fluids, antiemetics and antipyretics. The FDA's or a comparable foreign regulatory authority's requests for additional data or information could also result in substantial delays in the approval of CAN- 2409, CAN- 3110 and future product candidates. Further, clinical trials by their nature utilize a sample of the potential patient population. With a limited number of patients and limited duration of exposure, rare and severe side effects of a product candidate may only be uncovered when a significantly larger number of patients are exposed to the product candidate or when patients are exposed for a longer period of time. Undesirable side effects caused by CAN- 2409, CAN- 3110 or any future product candidates could also result in denial of regulatory approval by the FDA or comparable foreign regulatory authorities for any or all targeted indications or the inclusion of unfavorable information in our product labeling, such as limitations on the indicated uses for which the products may be marketed or distributed, a label with significant safety warnings, including boxed warnings, contraindications, and precautions, a label without statements necessary or desirable for successful commercialization, or may result in requirements for costly postmarketing testing and surveillance, or other requirements, including the submission of a Risk Evaluation and Mitigation Strategy or (REMS -) to monitor the safety or efficacy of the products, and in turn prevent us from commercializing and generating revenues from the sale of CAN- 2409, CAN- 3110 and future product candidates. Any such limitations or restrictions could similarly impact any supplemental marketing approvals we may obtain for CAN- 2409 and CAN- 3110. Undesirable side effects may limit the potential market for any approved products or could result in restrictions on manufacturing processes, the discontinuation of the sales and marketing of the product, or withdrawal of product approvals. We could also be sued and held liable for harm caused to patients, or become subject to fines, injunctions or the imposition of civil or criminal penalties. If CAN- 2409, CAN- 3110 and future product candidates are associated with serious adverse events or undesirable side effects or have properties that are unexpected, we may need to abandon development or limit development of that product candidate to certain uses or subpopulations in which the undesirable side effects or other characteristics are less prevalent, less severe or more acceptable from a risk-benefit perspective. The therapeutic- related side effects could affect patient recruitment or the ability of enrolled patients to complete the trial or result in potential product liability claims. Any of these occurrences may materially harm our business, financial condition, results of operations, stock price and prospects. The FDA's agreement to a Special Protocol Assessment with respect to the study design of our pivotal phase 3 clinical trial of CAN- 2409 in newly diagnosed localized prostate cancer in intermediate and high- risk patients does not guarantee any particular outcome from regulatory review, including ultimate approval, and may not lead to a successful review or approval process. We have obtained agreement from the FDA on the design and size of our **pivotal Phase phase** 3 clinical trial of CAN-2409 in newly diagnosed localized prostate cancer in intermediate- and high- risk patients in combination with the SoC standard of care through an a Special Protocol Assessment (SPA). The FDA's SPA process is designed to facilitate the FDA's review and approval of drugs and biologics by allowing the FDA to evaluate the proposed design and size of certain clinical or animal

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studies, including clinical trials that are intended to form the primary basis for determining a product candidate's efficacy. Upon
specific request by a clinical trial sponsor, the FDA will evaluate the protocol and respond to a sponsor's questions regarding
protocol design and scientific and regulatory requirements. The FDA aims to complete SPA reviews within 45 days of receipt of
the request. The FDA ultimately assesses whether specific elements of the protocol design of the trial, such as entry criteria,
dose selection, endpoints and or planned analyses, are acceptable to support regulatory approval of the product with respect to
the effectiveness of the indication studied. All exchanges between the FDA and the sponsor regarding an SPA must be clearly
documented in an SPA letter or the minutes of a meeting between the sponsor and the FDA. Although the FDA may agree to an
SPA, an SPA agreement does not guarantee approval of a product. Even if the FDA agrees to the design, execution, and analysis
proposed in protocols reviewed under the SPA process, the FDA may revoke or alter its agreement in certain circumstances. In
particular, an SPA agreement is not binding on the FDA if public health concerns emerge that were unrecognized at the time of
the SPA agreement, other new scientific concerns regarding product safety or efficacy arise, the sponsor company fails to
comply with the agreed upon trial protocols, or the relevant data, assumptions or information provided by the sponsor in a
request for the SPA change or are found to be false or omit relevant facts. While we have obtained an SPA agreement for our
Phase phase 3 clinical trial, we have subsequently made minor amendments to the protocol and have not obtained an SPA
amendment in connection with the amended protocol. In addition, even after an SPA agreement is finalized, the SPA agreement
may be modified, and such modification will be deemed binding on the FDA review division, except under the circumstances
described above, if the FDA and the sponsor agree in writing to modify the protocol. Generally, such modification is intended to
improve the study. The FDA retains significant latitude and discretion in interpreting the terms of the SPA agreement and the
data and results from any study that is the subject of the SPA agreement. Moreover, if the FDA revokes or alters its agreement
under the SPA, or interprets the data collected from the clinical trial differently than we do, the FDA may not deem the data
sufficient to support an application for regulatory approval of CAN- 2409 in prostate cancer. A fast track designation by the
FDA, even though granted for CAN- 2409 and CAN- 3110, or if received for any other future product candidates, may not lead
to a faster development or regulatory review or approval process, and does not increase the likelihood that our product
candidates will receive marketing approval. If a drug or biologic is intended for the treatment of a serious or life- threatening
condition and the product demonstrates the potential to address unmet medical needs for this condition, the product sponsor may
apply for FDA fast track designation for a particular indication. We have been granted fast track designation for the use of
CAN-2409 for: (1) the treatment of localized, primary prostate cancer in combination with radiation therapy to improve the
local control rate; (2) with valacyclovir in combination with pembrolizumab in order to improve survival or delay
progression in patients with stage III / IV NSCLC who are resistant to first line PD- (L) 1 inhibitor therapy and who do
not have activating molecular driver mutations; and (3) with prodrug (valacyclovir) for the treatment of patients with
pancreatic ductal adenocarcinoma (PDAC) to improve overall survival. CAN- 3110 was also granted fast track
<mark>designation for the treatment of patients with recurrent high- grade glioma to improve overall survival. We</mark> may <mark>also</mark> seek
fast track designation for <del>CAN-3110 or</del> certain of our future product candidates , as appropriate. However, there is no
assurance that the FDA will grant this status to CAN-3110, CAN-2409, or any of our proposed product candidates. Marketing
applications filed by sponsors of products in fast track development may qualify for priority review under the policies and
procedures offered by the FDA, but the fast track designation does not assure any such qualification or ultimate marketing
approval by the FDA. The FDA has broad discretion whether or not to grant fast track designation, so even if we believe a
particular product candidate is eligible for this designation, there can be no assurance that the FDA would decide to grant it.
Even though we have received fast track designation for CAN- 2409 <mark>and CAN- 3110</mark> or <mark>even</mark> if we <del>do</del> receive fast track
designation for CAN-3110 or any other of our future product candidates or for additional indications in CAN-2409 and
CAN-3110, we may not experience a faster development process, review or approval compared to conventional FDA
procedures, and receiving a fast track designation does not provide assurance of ultimate FDA approval. In addition, the FDA
may withdraw fast track designation if it believes that the designation is no longer supported by data from our clinical
development program. In addition, the FDA may withdraw any fast track designation at any time. A breakthrough therapy
designation by the FDA, even if granted for any of our product candidates, may not lead to a faster development or regulatory
review or approval process and it does not increase the likelihood that our product candidates will receive marketing approval.
We may seek breakthrough therapy designation for some or all of our future product candidates. A breakthrough therapy is
defined as a drug or biologic that is intended, alone or in combination with one or more other drugs or biologics, to treat a
serious or life- threatening disease or condition and preliminary clinical evidence indicates that the drug or biologic may
demonstrate substantial improvement over existing therapies on one or more clinically significant endpoints. Sponsors of
product candidates that have been designated as breakthrough therapies are eligible to receive more intensive FDA guidance on
developing an efficient drug development program, an organizational commitment involving senior managers, and eligibility for
rolling review and priority review. Drugs and biologics designated as breakthrough therapies by the FDA may also be eligible
for other expedited approval programs, including accelerated approval. Designation as a breakthrough therapy is within the
discretion of the FDA. Accordingly, even if we believe one of our product candidates meets the criteria for designation as a
breakthrough therapy, the FDA may disagree and instead determine not to make such designation. In any event, the receipt of a
breakthrough therapy designation for a product candidate may not result in a faster development process, review or approval
compared to product candidates developed and considered for approval that have not received breakthrough therapy designation
and does not assure ultimate approval by the FDA. In addition, even if one or more of our product candidates qualify as
breakthrough therapies, the FDA may later decide that the product no longer meets the conditions for qualification. Thus, even
though we may seek breakthrough therapy designation for CAN- 2409, CAN- 3110 or some or all of our future product
candidates for the treatment of various cancers, there can be no assurance that we will receive breakthrough therapy designation.
Accelerated approval by the FDA, even if granted for certain of our current or future product candidates, may not lead to a faster
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development or regulatory review or approval process and it does not increase the likelihood that our product candidates will
receive marketing approval. We may seek approval of certain of our current or future product candidates using the FDA's
accelerated approval pathway. A product may be eligible for accelerated approval if it treats a serious or life-threatening
condition, generally provides a meaningful advantage over available therapies, and demonstrates an effect on a surrogate
endpoint that is reasonably likely to predict clinical benefit. As a condition of approval, the FDA may require that a sponsor of a
product receiving accelerated approval perform adequate and well- controlled post- marketing clinical trials. These confirmatory
trials must be completed with due diligence by the sponsor and, under the Food and Drug Omnibus Report Reform Act of 2022
(FDORA), the FDA is permitted to require, as appropriate, that such trials be underway prior to approval or within a specified
time period after the date accelerated approval is granted. FDORA also requires sponsors to send updates to the FDA every 180
days on the status of such confirmatory trials, including progress toward enrollment targets, and the FDA must promptly post
this information publicly. FDORA also gives the FDA increased authority to withdraw approval of a drug or biologic granted
accelerated approval on an expedited basis if the sponsor fails to conduct such trials in a timely manner, send the necessary
updates to the FDA, or if such post-approval studies fail to verify the drug's predicted clinical benefit. Under FDORA, the
FDA is empowered to take action, such as issuing fines, against companies that fail to conduct with due diligence any post-
approval confirmatory trial or submit timely reports to the agency on their progress. In addition, the FDA currently requires,
unless otherwise informed by the agency, pre-approval of promotional materials for products receiving accelerated approval,
which could adversely impact the timing of the commercial launch of the product. Even if we do receive accelerated approval,
we may not experience a faster development or regulatory review or approval process, and receiving accelerated approval does
not provide assurance that the product's accelerated approval will eventually be converted to a traditional FDA approval. We
may seek approval of our product candidate into Real-Time Oncology Review (RTOR). This program may not lead to a
faster regulatory review or approval process and does not increase the likelihood that our product candidate (s) will
receive marketing approval. Participation in RTOR is voluntary. Our acceptance into RTOR does not guarantee or
influence approval of our application, which is subject to the same statutory and regulatory requirements for approval as
applications that are not included in RTOR. Although early approvals have occurred with applications selected for
RTOR, this may not be the case for our application even if it is selected for RTOR. If at any time the FDA determines
our participation in RTOR, if selected, is no longer appropriate, the FDA may rescind our acceptance and instruct us to
follow routine submission procedures for marketing approval. Even if our development efforts are successful, we may not
obtain regulatory approval of CAN- 2409, CAN- 3110 or any future product candidates in the United States or other
jurisdictions, which would prevent us from commercializing CAN-2409, CAN-3110 and future product candidates. Even if we
obtain regulatory approval for CAN-2409, CAN-3110 and future product candidates, any such approval may be subject to
limitations, including with respect to the approved indications or patient populations, which could impair our ability to
successfully commercialize CAN- 2409, CAN- 3110 or any future product candidates. We are not permitted to market or
promote or sell CAN-2409, CAN-3110 or any future product candidates before we receive regulatory approval from the FDA
or comparable foreign regulatory authorities, and we may never receive such regulatory approval. Securing marketing approval
requires the submission of extensive preclinical and clinical data and supporting information to regulatory authorities for each
therapeutic indication to establish the product candidate's safety and efficacy for that indication. Securing marketing approval
also requires the submission of information about the product manufacturing process to, and inspection of manufacturing
facilities and clinical trial sites by the regulatory authorities. If we do not receive approval from the FDA and comparable
foreign regulatory authorities for any of CAN-2409, CAN-3110 and future product candidates, we will not be able to
commercialize such product candidates in the United States or in other jurisdictions. If significant delays in obtaining approval
for and commercializing CAN- 2409, CAN- 3110 and future product candidates occur in any jurisdictions, our business,
financial condition, results of operations, stock price and prospects will be materially harmed. Even if CAN- 2409, CAN- 3110
and future product candidates are approved, they may: • be subject to limitations on the indicated uses or patient populations for
which they may be marketed, distribution restrictions, or other conditions of approval; • not be approved with label statements
necessary or desirable for successful commercialization; or • contain requirements for costly post- market testing and
surveillance, or other requirements, including the submission of a REMS, to monitor the safety or efficacy of the products. We
have not previously submitted a Biologics License Application (BLA), to the FDA, or a similar marketing application to
comparable foreign regulatory authorities, for CAN- 2409, CAN- 3110 or any product candidate, and we can provide no
assurance that we will ultimately be successful in obtaining regulatory approval for claims that are necessary or desirable for
successful marketing, if at all. As product candidates are developed through preclinical studies to later- stage clinical trials
towards approval and commercialization, it is common that various aspects of the development program, such as manufacturing
methods and formulation, are altered along the way in an effort to optimize processes and results. Any of these changes could
cause CAN- 2409, CAN- 3110 or any future product candidates to perform differently and affect the results of planned clinical
trials or other future clinical trials conducted with the altered materials. Changes in third- party manufacturers and
manufacturing processes may also require additional testing, or notification to, or approval by the FDA or a comparable foreign
regulatory authority. Such changes could be further delayed due to development of clinical- scale manufacturing and
commercial- scale manufacturing operations. This could delay completion of clinical trials, require the conduct of bridging
clinical trials or studies, require the repetition of one or more clinical trials, increase clinical trial costs, delay approval of CAN-
2409, CAN-3110 and future product candidates and jeopardize our ability to commence product sales and generate revenue.
Inadequate funding for the FDA, the SEC and other government agencies could hinder their ability to hire and retain key
leadership and other personnel, prevent new products and services from being developed or commercialized in a timely manner
or otherwise prevent those agencies from performing normal business functions on which the operation of our business may
rely, which could negatively impact our business. The ability of the FDA to review and approve new products can be affected
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by a variety of factors, including government budget and funding levels, ability to hire and retain key personnel and accept the payment of user fees, and statutory, regulatory, and policy changes. Average review times at the agency have fluctuated in recent years as a result. In addition, government funding of the SEC and other government agencies on which our operations may rely, including those that fund research and development activities, is subject to the political process, which is inherently fluid and unpredictable. Disruptions at the FDA and other agencies may also slow the time necessary for new product candidates to be reviewed and / or approved by necessary government agencies, which would adversely affect our business. For example, over the last several years the U. S. **federal** government has shut down several times and certain regulatory agencies, such as the FDA and the SEC, have had to furlough critical FDA, SEC and other government employees and stop critical activities. If a prolonged government shutdown occurs, it could significantly impact the ability of the FDA to timely review and process our regulatory submissions, which could have a material adverse effect on our business. A potential U. S. federal government shutdown may also increase uncertainty and volatility in the global economy and financial markets, which could negatively impact our business. Further, future government shutdowns could impact our ability to access the public markets and obtain necessary capital in order to properly capitalize and continue our operations. Separately, in response to the COVID-19 pandemic, since March, 2020 when foreign and domestic inspections of facilities were largely placed on hold, the FDA has been working to resume pre-pandemic inspection activities, including routine surveillance, bioresearch monitoring and pre-approval inspections. Should the FDA determine that an inspection is necessary for approval and an inspection cannot be completed during the review cycle due to restrictions on travel, and that a remote interactive evaluation is not adequate, the FDA has stated that it generally intends to issue, depending on the circumstances, a complete response letter or defer action on the application until an inspection can be completed. During the COVID-19 public health emergency, a number of companies announced receipt of complete response letters due to the FDA's inability to complete required inspections for their applications. Regulatory authorities outside the United States may adopt similar restrictions or other policy measures in response to the COVID-19 pandemic and may experience delays in their regulatory activities. If a prolonged government shutdown or other disruption occurs, it could significantly impact the ability of the FDA to timely review and process our regulatory submissions, which could have a material adverse effect on our business. Future shutdowns or other disruptions could also affect other government agencies such as the SEC, which may also impact our business by delaying review of our public filings, to the extent such review is necessary, and our ability to access the public markets. Even if CAN- 2409, CAN- 3110 or any future product candidates receive regulatory approval, we will be subject to ongoing obligations and continued regulatory review, which may result in significant additional expense and limit how we manufacture and market our products. Any product candidate for which we may obtain marketing approval will be subject to extensive and ongoing requirements of and review by the FDA and comparable foreign regulatory authorities, including requirements related to the manufacturing processes, postapproval clinical data, labeling, packaging, distribution, adverse event reporting, storage, recordkeeping, export, import, advertising, marketing, and promotional activities for such product. These requirements further include submissions of safety and other post- marketing information, including manufacturing deviations and reports, registration and listing requirements, the payment of annual fees, continued compliance with current good manufacturing practice (cGMP), requirements relating to manufacturing, quality control, quality assurance, and corresponding maintenance of records and documents, and good clinical practices (GCPs), for any clinical trials that we conduct post-approval. The FDA and comparable foreign regulatory authorities will continue to closely monitor the safety profile of any product even after approval. If the FDA or comparable foreign regulatory authorities become aware of new safety information after approval of any of CAN- 2409, CAN- 3110 and future product candidates, they may withdraw approval, issue public safety alerts, require labeling changes or establishment of a REMS or similar strategy, impose significant restrictions on a product's indicated uses or marketing, or impose ongoing requirements for potentially costly post- approval studies or post- market surveillance. Any such restrictions could limit sales of the product. We and any of our suppliers or collaborators, including our CMOs CDMOs, could be subject to periodic unannounced inspections by the FDA to monitor and ensure compliance with cGMPs and other FDA regulatory requirements. Manufacturers and manufacturers' facilities are required to comply with extensive FDA and comparable foreign regulatory authority requirements, including ensuring that quality control and manufacturing procedures conform to cGMP regulations and applicable product tracking and tracing requirements. Application holders must further notify the FDA, and depending on the nature of the change, obtain FDA pre- approval for product and manufacturing changes. In addition, later discovery of previously unknown adverse events or that the product is less effective than previously thought or other problems with any products, manufacturers or manufacturing processes, or failure to comply with regulatory requirements both before and after approval, may yield various negative results, including: • restrictions on manufacturing, distribution, or marketing of such products; • restrictions on the labeling, including required additional warnings, such as boxed warnings, contraindications, precautions, and restrictions on the approved indication or use; • manufacturing delays and supply disruptions where regulatory inspections identify observations of noncompliance requiring remediation; • modifications to promotional pieces; • issuance of corrective information; • requirements to conduct post- marketing studies or other clinical trials; • clinical holds or termination of clinical trials; • requirements to establish or modify a REMS or similar strategy; • changes to the way the product is administered to patients; • liability for harm caused to patients or subjects; • reputational harm; • the product becoming less competitive; • warning or untitled letters; • suspension of marketing or withdrawal of the products from the market; • regulatory authority issuance of safety alerts, Dear Healthcare Provider letters, press releases, or other communications containing warnings or other safety information about the product; • refusal to approve pending applications or supplements to approved applications that we submit; • recalls of products; • fines, restitution or disgorgement of profits or revenues; • suspension or withdrawal of marketing approvals; • refusal to permit the import or export of our products; • product seizure or detention; • FDA debarment, suspension and debarment from government contracts, and refusal of orders under existing government contracts, exclusion from federal healthcare programs, consent decrees, or corporate integrity agreements; or • injunctions or the

imposition of civil, criminal or administrative penalties, including imprisonment. Any of these events could prevent us from achieving or maintaining market acceptance of any particular product or could substantially increase the costs and expenses of commercializing such product, which in turn could delay or prevent us from generating significant revenues from its marketing and sale. Any of these events could further have other material and adverse effects on our operations and business and could adversely impact our business, financial condition, results of operations, stock price and prospects. Further, the FDA's policies or those of comparable foreign regulatory authorities may change and could impose extensive and ongoing regulatory requirements and obligations on any product candidate for which we obtain marketing approval. If we are slow or unable to adapt to changes in existing requirements or the adoption of new requirements or policies, or if we are not able to maintain regulatory compliance, we may lose any marketing approval that we may have obtained and be subject to regulatory enforcement action, which would adversely affect our business, prospects and ability to achieve or sustain profitability. Regulatory approval by the FDA or comparable foreign regulatory authorities is limited to those specific indications and conditions for which approval has been granted, and we may be subject to substantial fines, criminal penalties, injunctions or other enforcement actions if we are determined to be promoting the use of our products for unapproved or "off-label" uses, or in a manner inconsistent with the approved labeling, resulting in damage to our reputation and business. We must comply with requirements concerning advertising and promotion for any product candidates for which we obtain marketing approval. Promotional communications with respect to the rapeutics are subject to a variety of legal and regulatory restrictions and continuing review by the FDA, Department of Justice, the Office of Inspector General for the Department of Health and Human Services (HHS), state attorneys general, members of Congress and the public. When the FDA or comparable foreign regulatory authorities issue regulatory approval for a product candidate, the regulatory approval is limited to those specific uses and indications for which a product is approved. If we are not able to obtain FDA approval for desired uses or indications for CAN-2409, CAN-3110 and future product candidates, we may not market or promote them for those indications and uses, referred to as off- label uses, and our business, financial condition, results of operations, stock price and prospects will be materially harmed. We also must sufficiently substantiate any claims that we make for any products, including claims comparing those products to other companies' products, and must abide by the FDA's strict requirements regarding the content of promotion and advertising. Physicians may choose to prescribe products for uses that are not described in the product's labeling and for uses that differ from those tested in clinical trials and approved by the regulatory authorities. Regulatory authorities in the United States generally do not restrict or regulate the behavior of physicians in their choice of treatment within the practice of medicine. Regulatory authorities do, however, restrict communications by biopharmaceutical companies concerning off-label use. If we are found to have impermissibly promoted any of CAN- 2409, CAN- 3110 and future product candidates, we may become subject to significant liability and government fines. The FDA and other agencies actively enforce the laws and regulations regarding product promotion, particularly those prohibiting the promotion of off- label uses, and a company that is found to have improperly promoted a product may be subject to significant sanctions. The federal government has levied large civil and criminal fines against companies for alleged improper promotion and has enjoined several companies from engaging in offlabel promotion. The FDA has also requested that companies enter into consent decrees or permanent injunctions under which specified promotional conduct is changed or curtailed. In the United States, engaging in the impermissible promotion of any products, following approval, for off-label uses can also subject us to false claims and other litigation under federal and state statutes. These include fraud and abuse and consumer protection laws, which can lead to civil and criminal penalties and fines, agreements with governmental authorities that materially restrict the manner in which we promote or distribute therapeutic products and conduct our business. These restrictions could include corporate integrity agreements, suspension or exclusion from participation in federal and state healthcare programs, and suspension and debarment from government contracts and refusal of orders under existing government contracts. These False Claims Act lawsuits against manufacturers of drugs and biologics have increased significantly in volume and breadth, leading to several substantial civil and criminal settlements pertaining to certain sales practices and promoting off- label uses. In addition, False Claims Act lawsuits may expose manufacturers to follow- on claims by private payers based on fraudulent marketing practices. This growth in litigation has increased the risk that a biopharmaceutical company will have to defend a false claim action, pay settlement fines or restitution, as well as criminal and civil penalties, agree to comply with burdensome reporting and compliance obligations, and be excluded from Medicare, Medicaid, or other federal and state healthcare programs. If we do not lawfully promote our approved products, if any, we may become subject to such litigation and, if we do not successfully defend against such actions, those actions may have a material adverse effect on our business, financial condition, results of operations, stock price and prospects. In the United States, the promotion of biopharmaceutical products is subject to additional FDA requirements and restrictions on promotional statements. If, after CAN- 2409, CAN- 3110 or any future product candidates obtains marketing approval, the FDA determines that our promotional activities violate its regulations and policies pertaining to product promotion, it could request that we modify our promotional materials or subject us to regulatory or other enforcement actions, including issuance of warning letters or untitled letters, suspension or withdrawal of an approved product from the market, requests for recalls, payment of civil fines, disgorgement of money, imposition of operating restrictions, injunctions or criminal prosecution, and other enforcement actions. Similarly, industry codes in foreign jurisdictions may prohibit companies from engaging in certain promotional activities, and regulatory agencies in various countries may enforce violations of such codes with civil penalties. If we become subject to regulatory and enforcement actions, our business, financial condition, results of operations, stock price and prospects will be materially harmed. We may not be able to file INDs or IND amendments to commence additional clinical trials on the timelines we expect, and even if we are able to, the FDA or a comparable foreign regulatory may not permit us to proceed. The FDA or comparable foreign regulatory authorities may require us to file separate INDs for additional clinical trials we plan to conduct with our current lead most advanced product candidates, CAN- 2409 and CAN- 3110. We may not be able to file any additional INDs required for our current product candidates and any future product candidates on the timelines we expect. For example, we

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may experience manufacturing delays or other delays with IND- enabling studies, including due to the impact of the COVID-19
pandemic on suppliers, study sites or third-party contractors and vendors on whom we depend. We may also experience delays
if we are unable to access earlier data from inactive or withdrawn INDs. Moreover, we cannot be sure that submission of an
IND will result in the FDA or comparable foreign regulatory authorities allowing further clinical trials to begin, or that, once
begun, issues will not arise that suspend or terminate clinical trials. Additionally, even if such regulatory authorities agree with
the design and implementation of the clinical trials set forth in an IND, we cannot guarantee that such regulatory authorities will
not change their requirements in the future. These considerations also apply to new clinical trials we may submit as amendments
to existing INDs or to a new IND. Any failure to file INDs on the expected timelines to obtain regulatory approvals for our trials
may prevent us from completing our clinical trials or commercializing our products on a timely basis, if at all. There are similar
risks related to the review and authorization of our protocols and amendments by comparable foreign regulatory authorities. If
approved, our investigational products regulated as biologics may face competition from biosimilars approved through an
abbreviated regulatory pathway. The Patient Protection and Affordable Care Act, as amended by the Health Care and Education
Reconciliation Act of 2010 (collectively, the ACA), includes a subtitle called the Biologics Price Competition and Innovation
Act of 2009 (BPCIA), which created an abbreviated approval pathway for biologic products that are biosimilar to or
interchangeable with an FDA- licensed reference biologic product. Under the BPCIA, an application for a biosimilar product
may not be submitted to the FDA until four years following the date that the reference product was first licensed by the FDA. In
addition, the approval of a biosimilar product may not be made effective by the FDA until 12 years from the date on which the
reference product was first licensed. During this 12- year period of exclusivity, another company may still market a competing
version of the reference product if the FDA approves a BLA for the competing product containing the sponsor's own
preclinical data and data from adequate and well- controlled clinical trials to demonstrate the safety, purity and potency of the
other company's product. The law is complex and is still being interpreted and implemented by the FDA. As a result, its
ultimate impact, implementation and meaning are subject to uncertainty. We believe that any of our product candidates approved
as a biologic product under a BLA should qualify for the 12- year period of exclusivity. However, there is a risk that this
exclusivity could be shortened or unavailable due to congressional action, a determination that approval of one of our candidates
does not constitute "" first licensure "" or otherwise, or that the FDA will not consider our investigational medicines to be
reference products for competing products, potentially creating the opportunity for generic competition sooner than anticipated -
Other aspects of the BPCIA, some of which may impact the BPCIA exclusivity provisions, have also been the subject of recent
litigation. Moreover, the extent to which a biosimilar, once licensed, will be substituted for any one of our reference products in
a way that is similar to traditional generic substitution for non-biologic products is not yet clear, and will depend on a number
of marketplace and regulatory factors that are still developing. If competitors are able to obtain marketing approval for
biosimilars referencing our products, our products may become subject to competition from such biosimilars, with the attendant
competitive pressure and consequences. The size of the potential market for our product candidates is difficult to estimate and, if
any of our assumptions are inaccurate, the actual markets for our product candidates may be smaller than our estimates. Our
current and future target patient populations are based on our beliefs and estimates regarding the incidence or prevalence of
certain types of the indications that may be addressable by our product candidates, which is derived from a variety of sources,
including scientific literature and surveys of clinics. Our projections may prove to be incorrect and the number of potential
patients may turn out to be lower than expected. The total addressable market opportunity for our product candidates will
ultimately depend upon a number of factors including the diagnosis and treatment criteria included in the final label, if approved
for sale in specified indications, acceptance by the medical community, patient access, the success of competing therapies and
product pricing and reimbursement. Further, the market opportunity for viral immunotherapies is hard to estimate given that it is
an emerging field with few globally or FDA- approved therapies, none of which have yet to enjoy broad market acceptance.
Even if we obtain significant market share for our product candidates, because the potential target populations could be small,
we may never achieve profitability without obtaining regulatory approval for additional indications. Healthcare reform measures
may have a material adverse effect on our business and results of operations. The United States and many foreign jurisdictions
have enacted or proposed legislative and regulatory changes affecting the healthcare system that could prevent or delay
marketing approval of our current or future product candidates or any future product candidates, restrict or regulate post-
approval activities and affect our ability to profitably sell a product for which we obtain marketing approval. Among policy-
makers and payers in the United States and elsewhere, there is significant interest in promoting changes in healthcare systems
with the stated goals of containing healthcare costs, improving quality and / or expanding access to healthcare. In the United
States, the pharmaceutical industry has been a particular focus of these efforts and has been significantly affected by major
legislative initiatives. There have been, and likely will continue to be, legislative and regulatory proposals at the federal and state
levels directed at broadening the availability of healthcare and containing or lowering the cost of healthcare. We cannot predict
the initiatives that may be adopted in the future. For more information, see Part I, Item 1 "Business-Health Reform". The
continuing efforts of the government, insurance companies, managed care organizations and other payers of healthcare services
to contain or reduce costs of healthcare may adversely affect: • the demand for any of our product candidates, if approved; • the
ability to set a price that we believe is fair for any of our product candidates, if approved; • our ability to generate revenues and
achieve or maintain profitability; • the level of taxes that we are required to pay; and • the availability of capital. Legislative and
regulatory proposals have been made to expand post- approval requirements and restrict sales and promotional activities for
pharmaceutical and biologic products. We cannot be sure whether additional legislative changes will be enacted, or whether
FDA regulations, guidance or interpretations will be changed, or what the impact of such changes on the marketing approvals of
our product candidates, if any, may be. In addition, increased scrutiny by Congress of the FDA's approval process may
significantly delay or prevent marketing approval, as well as subject us to more stringent product labeling and post-marketing
testing and other requirements. Moreover, increasing efforts by governmental and third-party payors in the United States and
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abroad to cap or reduce healthcare costs may cause such organizations to limit both coverage and the level of reimbursement for newly approved products and, as a result, they may not cover or provide adequate payment for our product candidates. There has been increasing legislative and enforcement interest in the United States with respect to specialty drug pricing practices -Specifically, there have been several recent U. S. Congressional inquiries and proposed and enacted federal and state legislation designed to, among other things, bring more transparency to drug pricing, reduce the cost of prescription drugs under Medicare, review the relationship between pricing and manufacturer patient programs, and reform government program reimbursement methodologies for drugs. We expect that the healthcare reform measures that have been adopted and may be adopted in the future, may result in more rigorous coverage criteria and in additional downward pressure on the price that we receive for any approved product and could seriously harm our future revenues. Any reduction in reimbursement from Medicare or other government programs may result in a similar reduction in payments from private payors. The implementation of cost containment measures or other healthcare reforms may prevent us from being able to generate revenue, attain profitability or commercialize our products. If, in the future, we are unable to establish sales and marketing and patient support capabilities or enter into agreements with third parties to sell and market our current or future product candidates, we may not be successful in commercializing our current or future product candidates if and when they are approved, and we may not be able to generate any revenue. We do not currently have a sales or marketing infrastructure and have limited experience in the sales, marketing, patient support or distribution of products. To achieve commercial success for any approved product candidate for which we retain sales and marketing responsibilities, we must build our sales, marketing, patient support, managerial and other nontechnical capabilities or make arrangements with third parties to perform these services. In the future, we may choose to build a focused sales and marketing infrastructure to sell, or participate in sales activities with our collaborators for, some of our current or future product candidates if and when they are approved. There are risks involved with both establishing our own sales and marketing and patient support capabilities and entering into arrangements with third parties to perform these services. For example, recruiting and training a sales force is expensive and time consuming and could delay any drug launch. If the commercial launch of a product candidate for which we recruit a sales force and establish marketing capabilities is delayed or does not occur for any reason, we would have prematurely or unnecessarily incurred these commercialization expenses. This may be costly, and our investment would be lost if we cannot retain or reposition our sales and marketing personnel. Factors that may inhibit our efforts to commercialize our current or future product candidates on our own include: • our inability to recruit and retain adequate numbers of effective sales and marketing personnel; • the inability of sales personnel to obtain access to physicians or persuade adequate numbers of physicians to use any future products; • the lack of complementary products to be offered by sales personnel, which may put us at a competitive disadvantage relative to companies with more extensive product lines; and • unforeseen costs and expenses associated with creating an independent sales and marketing organization. If we enter into arrangements with third parties to perform sales, marketing, patient support and distribution services, our drug revenues or the profitability of these drug revenues to us are likely to be lower than if we were to market and sell any current or future product candidates that we develop ourselves. In addition, we may not be successful in entering into arrangements with third parties to sell and market our current or future product candidates or may be unable to do so on terms that are favorable to us. We likely will have little control over such third parties, and any of them may fail to devote the necessary resources and attention to sell and market our current or future product candidates effectively. If we do not establish sales and marketing capabilities successfully, either on our own or in collaboration with third parties, we will not be successful in commercializing our current or future product candidates. Further, our business, results of operations, financial condition and prospects will be materially adversely affected. If any product candidate for which we receive regulatory approval does not achieve broad market acceptance among physicians, patients, healthcare payors, and the medical community, the revenues that we generate from its sales will be limited. Even if our product candidates receive regulatory approval, they may not gain market acceptance among physicians, patients, healthcare payors, and others in the medical community. Commercial success also will depend, in large part, on the coverage and reimbursement of our product candidates by third- party payors, including private insurance providers and government payors. The degree of market acceptance of any approved product would depend on a number of factors, including: • the efficacy, safety and tolerability as demonstrated in clinical trials; • the timing of market introduction of such product candidate as well as competitive products; • the clinical indications for which the product is approved; • acceptance by physicians, major operators of cancer or neurology clinics and patients of the product as a safe, tolerable and effective treatment; • the potential and perceived advantages of the product candidate over alternative treatments; • the safety and tolerability of the product candidate in a broader patient group; • the cost of treatment in relation to alternative treatments; • the availability of adequate reimbursement by third party payors and government authorities; • changes in regulatory requirements by government authorities for the product candidate; • relative convenience and ease of administration; • the prevalence and severity of side effects and adverse events; • the effectiveness of our sales and marketing efforts; and • favorable or unfavorable publicity relating to the product or relating to the Company. Our ability to successfully launch and secure market acceptance of our late- stage pipeline candidate, CAN-2409 (if approved), may be impacted by the evolving COVID-19 pandemic, although we are currently unable to predict or quantify any such potential impact with any degree of certainty. If the spread of COVID-19 and the social distancing measures taken by various governments continue, any commercial launch we may undertake may be hindered by various factors, including challenges in hiring the employees necessary to support commercialization; delays in demand due to impacts on the healthcare system and overall economy; delays in coverage decisions from Medicare and thirdparty payors; restrictions on our personal interactions with physicians, hospitals, payors, and other customers; interruptions or delays in our commercial supply chain; and increases in the number of uninsured or underinsured patients. If any product candidate is approved but does not achieve an adequate level of acceptance by physicians, hospitals, healthcare payors and patients, we may not generate sufficient revenue from these products and we may not become profitable, which would have a material adverse effect on our business. If we fail to develop additional product candidates, our commercial opportunity could be

limited. We expect initially to develop our lead-most advanced product candidates, CAN- 2409 and CAN- 3110. A key part of our strategy, however, is to pursue clinical development of additional product candidates. Developing, obtaining marketing approval for, and commercializing additional product candidates will require substantial additional funding and will be subject to the risks of failure inherent in medical product development. We cannot assure you that we will be able to successfully advance any of these additional product candidates through the development process. Even if we obtain approval from the FDA or comparable foreign regulatory authorities to market additional product candidates for the treatment of solid tumors, we cannot assure you that any such product candidates will be successfully commercialized, widely accepted in the marketplace, or more effective than other commercially available alternatives. If we are unable to successfully develop and commercialize additional product candidates our commercial opportunity may be limited and our business, financial condition, results of operations, stock price and prospects may be materially harmed. Our relationships with customers and third- party payors will be subject to applicable anti- kickback, fraud and abuse and other healthcare laws and regulations, which could expose us to criminal sanctions, civil penalties, exclusion from government healthcare programs, contractual damages, reputational harm and diminished profits and future earnings. Although we do not currently have any drugs on the market, if we begin commercializing our current or future product candidates, we will be subject to additional healthcare statutory and regulatory requirements and enforcement by the federal government and the states and foreign governments in which we conduct our business. Healthcare providers, physicians and third- party payors play a primary role in the recommendation and prescription of any current or future product candidates for which we obtain marketing approval. Our future arrangements with third-party payors and customers may expose us 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 our current or future product candidates for which we obtain marketing approval. Because of the breadth of these laws and the narrowness of the statutory exceptions and safe harbors available, it is possible that some of our business activities could be subject to challenge and may not comply under one or more of such laws, regulations and guidance. Law enforcement authorities are increasingly focused on enforcing fraud and abuse laws, and it is possible that some of our practices may be challenged under these laws. Ensuring that our future business arrangements with third parties comply with applicable healthcare laws and regulations could involve substantial costs. It is possible that governmental authorities will conclude that our business practices do not comply with current or future statutes, regulations or case law involving applicable fraud and abuse or other healthcare laws and regulations. If our operations, including anticipated activities to be conducted by our sales team, were to be found to be in violation of any of these laws or any other governmental regulations that may apply to us, we may be subject to significant civil, criminal and administrative penalties, damages, fines, exclusion from government funded healthcare programs, such as Medicare and Medicaid, and the curtailment or restructuring of our operations, as well as additional reporting obligations and oversight if we become subject to a corporate integrity agreement or other agreement to resolve allegations of non-compliance with these laws, any of which could adversely affect our ability to operate our business and our financial results. We may face potential liability if we obtain identifiable patient health information from clinical trials sponsored by us. Most healthcare providers, including certain research institutions from which we may 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, in the future, 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 may enroll in patient assistance programs if we choose to implement such 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. Foreign data protection laws, including the European Union's General Data Protection Regulation (the EU GDPR), and the United Kingdom (or UK) equivalent of the same (the UK GDPR, together with the EU GDPR, the GDPR) may also apply to our processing of health- related and other personal data. The GDPR imposes stringent requirements for controllers and processors of personal data of individuals within the European Economic Area , or **(the** EEA <mark>,)</mark> or the UK. The GDPR applies to any company established in the EEA or UK as well as to those outside the EEA or UK if they collect and use personal data in connection with the offering of goods or services to individuals in the EEA or UK or the monitoring of their behavior. The GDPR, together with national legislation, regulations and guidelines of the EEA Member States and the UK governing the processing of personal data, impose strict obligations and restrictions on the ability to collect, analyze and transfer personal data, including health data from clinical trials and adverse event reporting. In particular, these obligations and restrictions concern the consent of the individuals to whom the personal data relates, the information provided to the individuals, the transfer of personal data out of the EEA or the UK, security breach notifications, security and confidentiality of the personal data and imposition of substantial potential fines for breaches of the data protection obligations. Companies that must comply with the GDPR face increased compliance obligations and risk, including more robust regulatory enforcement of data protection requirements and potential fines for noncompliance of up to € 20 million (£ 17. 5 million) or 4 % of the annual global revenues of the noncompliant company, whichever is greater. Currently, the EU GDPR and UK GDPR remain largely aligned, but the UK has announced plans to reform the country's data protection legal framework in its Data Reform Bill, which will introduce significant changes from the EU GDPR. This may lead to additional compliance costs and could increase our overall risk exposure as we may no longer be able to take a unified approach across the EEA and the UK, and we will need to amend our processes and procedures to align with the new framework. The

GDPR also imposes restrictions in relation to the international transfer of personal data from the EEA and UK and other countries in respect of which the European Commission or the UK government has not issued a so-called "adequacy decision" or "adequacy regulation" (known as "third countries"), unless the parties to the transfer have implemented specific safeguards to protect the transferred personal data. This includes putting in place the European Commission's Standard Contractual Clauses for transfers outside of the EEA and a similar transfer mechanism for transfers of personal data outside of the UK, the International Data Transfer Agreement or Addendum (IDTA). Under both the EU GDPR and the UK GDPR, exporters are also required to assess the risk of the data transfer on a case-by-case basis, including an analysis of the laws in the destination country. The In July 2023, the European Commission adopted its adequacy decision for the EU Standard Contractual Clauses had - U. S. Data Privacy Framework (Framework), the successor of the EU- U. S. Privacy Shield framework, which the Court of Justice of the European Union invalidated in 2020. On the basis of the new adequacy decision, personal data can flow safely from the EU to be U. S. companies participating in the Framework, without having to put in place additional by December 27, 2022, whereas the IDTA must be implemented in all existing contracts March 21, 2024. Finalizing the implementation of the updated Standard Contractual Clauses and UK IDTA, and conducting the required risk assessments, may continue to necessitate significant contractual overhaul of our data transfer arrangements with customers protection safeguards. However, sub-processors and vendors the Framework has already been challenged in European courts, which may lead to its invalidation. Implementing mechanisms to endeavor to ensure compliance with the GDPR and relevant local legislation in EEA Member States and the UK may be onerous and may interrupt or delay our development activities, and adversely affect our business, financial condition, results of operations, and prospects. In addition to the foregoing, a breach of the GDPR or other applicable privacy and data protection laws and regulations could result in regulatory investigations, reputational damage, and orders to cease / change our use of data, enforcement notices, or potential civil claims including class action-type litigation. In addition, governments in the United States are increasingly passing stringent privacy laws. California recently enacted and has proposed companion regulations to the California Consumer Privacy Act (CCPA), which went into effect January 1, 2020. The CCPA creates new individual privacy rights for California consumers (as defined in the law) and places increased privacy and security obligations on entities handling personal data of consumers or households. The CCPA requires covered companies to provide certain disclosures to consumers about its data collection, use and sharing practices, and to provide affected California residents with ways to opt- out of certain sales or transfers of personal information. As of March 28, 2020, the California State Attorney General has proposed varying versions of companion draft regulations which are not yet finalized. Despite the delay in adopting regulations, the California State Attorney General commenced enforcement actions against violators on July 1, 2020. While there are currently exceptions for protected health information that is subject to HIPAA and clinical trial regulations, as currently written, the CCPA may impact our business activities. On August 14, 2020, implementing regulations were finalized and became effective as of that date. While clinical trial data and information governed by HIPAA are currently exempt from the current version of the CCPA, other personal information may be applicable and possible changes to the CCPA may broaden its scope. We continue to monitor the impact the CCPA may have on our business activities. Additionally, a new California ballot initiative, the California Privacy Rights Act (CPRA) was passed in November 2020. Effective starting on January 1, 2023, the CPRA imposes additional obligations on companies covered by the legislation and will significantly modify the CCPA, including by expanding consumers' rights with respect to certain sensitive personal information. The CPRA also creates a new state agency that will be vested with authority to implement and enforce the CCPA and the CPRA. The effects of the CCPA and the CPRA are potentially significant and may require us to modify our data collection or processing practices and policies and to incur substantial costs and expenses in an effort to comply and increase our potential exposure to regulatory enforcement and / or litigation. Also, on March 2, 2021, Virginia enacted the Consumer Data Protection Act (CDPA). The CDPA will become effective January 1, 2023. The CDPA will regulate how businesses, which the CDPA refers to as "controllers", collect and share personal information. The law applies to companies that conduct business in Virginia or product products or services that are targeted to residents of Virginia and either: (1) annually control or process personal data of at least 100, 000 Virginia residents; or (2) control or process the personal data of at least 25, 000 Virginia residents and derive over 50 % of gross revenue from the sale of personal data. While the CDPA incorporates many similar concepts of the CCPA and CPRA, there are also several key differences in the scope, application, and enforcement of the law that will change the operational practices of controllers. The new law will impact how controllers collect and process personal sensitive data, conduct data protection assessments, transfer personal data to affiliates, and respond to consumer rights requests. In addition, on July 8, 2021, Colorado's governor signed the Colorado Privacy Act (CPA) into law. The CPA is rather similar to the Virginia's CPDA but also contains additional requirements. The new measure applies to companies conducting business in Colorado or who produce or deliver commercial products or services intentionally targeted to its residents of the state and that either: (1) control or process the personal data of at least 100, 000 Colorado residents during a calendar year; or (2) derive revenue or receive a discount on the price of goods or services from the sale of personal data and process or control the personal data of at least 25, 000 Colorado residents. Moreover, on March 24, 2022, Utah's governor signed the Utah Consumer Privacy Act (UCPA) into law. The UCPA will take effect on December 31, 2023. Also, in May 2022, Connecticut Governor Lamont signed the Connecticut Data Privacy Act (CTDPA) into laws. The UCPA and CTDPA draw heavily upon their predecessors in Virginia and Colorado. With the CTDPA, Connecticut became the fifth state to enact a comprehensive privacy law. New privacy and data security laws have been proposed in more than half of the states in the U. S. and in the U. S. Congress. With bills proposed in many other jurisdictions, it remains quite possible that other states will follow suit. Such proposed legislation, if enacted, may add additional complexity, variation in requirements, restrictions and potential legal risk, require additional investment of resources in compliance programs, impact strategies and the availability of previously useful data and could result in increased compliance costs and / or changes in business practices and policies. The existence of comprehensive privacy laws in different states in the country will make our compliance obligations more complex and costly and may increase the likelihood

that we may be subject to enforcement actions or otherwise incur liability for noncompliance. The increasing number and complexity of regional, country and U. S. state data protection laws, and other changes in laws or regulations across the globe, especially those associated with the enhanced protection of certain types of sensitive data, such as healthcare data or other personal information from our clinical trials, could lead to government enforcement actions and significant penalties against us and could have a material adverse effect on our business, financial condition or results of operations 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 may obtain health information, as well as the providers who may 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. If we or third- party contract research organizations (CROs) or other contractors or consultants fail to comply with applicable federal, state / provincial or local regulatory requirements, we could be subject to a range of regulatory actions that could affect our or our contractors' ability to develop and commercialize our therapeutic candidates and could harm or prevent sales of any affected therapeutics that we are able to commercialize, or could substantially increase the costs and expenses of developing, commercializing and marketing our therapeutics. Any threatened or actual government enforcement action could also generate adverse publicity and require that we devote substantial resources that could otherwise be used in other aspects of our business. Increasing use of social media could give rise to liability, breaches of data security or reputational damage. Additionally, we are subject to other 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. If we fail to comply with environmental, health and safety laws and regulations, we could become subject to fines or penalties or incur costs that could have a material adverse effect on the success of our business. We are subject to numerous environmental, health and safety laws and regulations, including those governing laboratory procedures and the handling, use, storage, treatment and disposal of hazardous materials and wastes. Our operations involve the use of hazardous and flammable materials, including chemicals and biological and radioactive materials. Our operations also produce hazardous waste products. We generally contract with third parties for the disposal of these materials and wastes. We cannot eliminate the risk of contamination or injury from these materials. In the event of contamination or injury resulting from our use of hazardous materials, we could be held liable for any resulting damages, and any liability could exceed our resources. We also could incur significant costs associated with civil or criminal fines and penalties. Although we maintain workers' compensation insurance to cover us for costs and expenses we may incur due to injuries to our employees resulting from the use of hazardous materials, this insurance may not provide adequate coverage against potential liabilities. We do not maintain insurance for environmental liability or toxic tort claims that may be asserted against us in connection with our storage or disposal of biological, hazardous or radioactive materials. Risks Related to Employee Matters, Managing Growth and General Business Operations The COVID-19 pandemie Any future public health crisis may affect our ability to complete our ongoing clinical trials and initiate and complete other preclinical studies, planned clinical trials or future clinical trials, disrupt regulatory activities, disrupt our manufacturing and supply chain or have other adverse effects on our business and operations. In addition, this pandemie any future public health crisis may caused - cause substantial disruption in the financial markets and may adversely impact economies worldwide, both of which could result in adverse effects on our business, operations and ability to raise capital. The COVID-19 pandemic Any future public health crisis may caused - cause many governments to implement measures to slow the spread of COVID-19 the public health crisis through quarantines, travel restrictions, heightened border scrutiny and other measures. The COVID-19 pandemic and government Government measures taken in response to any future public health crisis may also had have a significant impact, both directly and indirectly, on businesses and commerce, as worker shortages may occurred --- occur; supply chains have been may be disrupted; facilities and production were may be suspended; and demand for certain goods and services, such as medical services and supplies, may spiked - spike, while demand for other goods and services, such as travel may fell fall. While the impact of the COVID- 19 pandemic on our operations, including, among others, our manufacturing and supply chain, sales and marketing, commercial and clinical trial operations, to date has not been material, the future progression of the COVID-19 pandemic and its effects on our business and operations are uncertain. The extent to which COVID-19 had and any future public health crisis may in the future have an impact on our operations or those of the third parties on which we rely depends on many factors, which are highly uncertain and cannot be predicted with confidence , including the duration of the pandemie, any future variants of COVID-19, additional or modified government actions, new information that will emerge concerning the severity and impact of COVID-19, and the actions to contain the COVID-19 pandemic or address its impact in the short and long term. Additionally, the conduct of our clinical trials, preclinical studies and manufacturing activities is dependent upon the availability of clinical trial sites, CROs, CMOs CDMOs, researchers and investigators, regulatory agency personnel and logistics providers, all of which may in the future be adversely affected by the COVID-19 pandemic any future public health crisis. Any negative impact that the COVID-19 pandemic any future public health crisis may have on enrolling or retaining patients in our clinical trials, the ability of our suppliers to provide materials for our product candidates, or the regulatory review process could cause delays with respect to product development activities, which could materially and adversely affect our ability to obtain marketing approval for and to commercialize our product candidates, increase our operating expenses, affect our ability to raise additional capital, and have a material adverse effect on our financial results. Any We cannot provide assurance that some factors from the COVID-19 pandemic will not further delay or otherwise adversely affect our elinical development, research, manufacturing and business operations activities, as well as our business generally, in the future public health crisis. We and the third-party manufacturers, CROs and academic collaborators that we engage have faced in

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the past and may face in the future disruptions that could affect our ability to initiate and complete preclinical studies or clinical
trials, including disruptions in procuring items that are essential for our research and development activities, such as, for
example, raw materials used in the manufacture of our product candidates, laboratory supplies for our preclinical studies and
clinical trials, or animals that are used for preclinical testing, in each case, for which there may be shortages because of ongoing
efforts to address the COVID-19 pandemic. For example, during the COVID-19, there were global supply chain disruptions,
particularly with raw materials and supplies used in biopharmaceutical production. Several vaccines for COVID-19 have been
granted Emergency Use Authorization by the FDA, and more may be authorized or approved in the future. The resultant
demand for vaccines and potential for manufacturing facilities and materials to be commandeered under the Defense Production
Act of 1950, or equivalent foreign legislation, may make it more difficult to obtain materials or manufacturing slots for the
products needed for our clinical trials, which could lead to delays in these trials. Additionally, the response to the COVID-19
pandemic may redirect resources with respect to regulatory and intellectual property matters in a way that would adversely
impact our ability to pursue marketing approvals and protect our intellectual property. In addition, we may face impediments to
regulatory meetings and potential approvals due to measures intended to limit in-person interactions. In response to the
COVID-19 pandemic and in accordance with direction from state and local governmental authorities, we carefully monitored
the COVID-19 pandemic and its impact on our business and took important steps to help ensure the safety of our employees
and their families and to reduce the spread of COVID-19. We established a flexible work policy for our employees under which
we encourage all of our employees to work from the office or from home as they feel appropriate. Those employees performing
or supporting business- critical operations, such as members of our laboratory and facilities staff, are working on site at our
facilities on a daily basis. For those employees who come to work at our facilities, we have implemented stringent safety
measures designed to comply with applicable federal, state and local guidelines instituted in response to the COVID-19
pandemie. We have taken these precautionary steps while maintaining business continuity so that we can continue to progress
our programs. In the event that governmental authorities were to impose new restrictions, our employees conducting research
and development activities may not be able to access our laboratory space, and our core research activities may be significantly
limited or curtailed, possibly for an extended period of time. The extent of any future impact of COVID-19 to our business,
preclinical studies and clinical trials will depend on future developments, which are uncertain and cannot be predicted with
confidence, such as the ultimate geographic spread of the disease, the duration of the COVID-19 pandemic, travel restrictions
and actions to contain the COVID-19 pandemic, such as social distancing and quarantines or lock-downs in the United States
and other countries, business closures or business disruptions and the effectiveness of actions taken in the United States and
other countries to contain and treat the disease. The COVID-19 pandemic caused significant disruptions in the financial
markets, and may cause disruptions in the future, which could adversely impact our ability to raise additional funds through
public offerings or private placements and may also impact the volatility of our stock price and trading in our stock. Moreover,
it is possible the COVID-19 pandemic that any future public health crisis could impact economies worldwide in the future.
which could result in adverse effects on our business and operations. We cannot be certain what the overall impact of the
COVID-19 pandemic will be on our business and it has the potential to adversely affect our business, financial condition, results
of operations and prospects. Our future success depends on our ability to retain key executives and to attract, retain and motivate
qualified personnel. We are highly dependent on the research and development, clinical, financial, operational and other
business expertise of our executive officers, as well as the other principal members of our management, scientific and clinical
teams. Although we have entered into employment agreements with our executive officers, each of them may terminate their
employment with us at any time. We do not maintain "key person" insurance for any of our executives or other employees.
Recruiting and retaining qualified scientific, clinical, manufacturing, accounting, legal and sales and marketing personnel will
also be critical to our success. On December 11, 2023, Jason A. Amello resigned from his position as the Company's Chief
Financial Officer, principal financial officer and principal accounting officer, effective January 12, 2024. Mr. Amello will
remain an advisor to the Company in order to support the transition of his responsibilities. On January 12, 2024, our
Board of Directors unanimously appointed Charles Schoch as the Company's interim Chief Financial Officer, principal
financial officer and principal accounting officer, effective January 12, 2024. The loss of the services of our executive
officers or other key employees could impede the achievement of our research, development and commercialization objectives
and seriously harm our ability to successfully implement our business strategy. Furthermore, replacing executive officers and
key employees may be difficult and may take an extended period of time because of the limited number of individuals in our
industry with the breadth of skills and experience required to successfully develop, gain marketing approval of and
commercialize products. Competition to hire from this limited pool is intense, and we may be unable to hire, train, retain or
motivate these key personnel on acceptable terms given the competition among numerous pharmaceutical and biotechnology
companies for similar personnel. We also experience competition for the hiring of scientific and clinical personnel from
universities and research institutions. In addition, we rely on consultants and advisors, including scientific and clinical advisors,
to assist us in formulating our research and development and commercialization strategy. Our consultants and advisors may be
employed by employers other than us and may have commitments under consulting or advisory contracts with other entities that
may limit their availability to us. Our success as a public company also depends on implementing and maintaining internal
controls and the accuracy and timeliness of our financial reporting. If we are unable to continue to attract and retain high quality
personnel, our ability to pursue our growth strategy will be limited. We expect to expand our development, manufacturing and
regulatory capabilities and potentially implement sales, marketing and distribution capabilities, and as a result, we may
encounter difficulties in managing our growth, which could disrupt our operations. As we seek to advance our product
candidates through clinical trials and commercialization, we will need to expand our development, regulatory, manufacturing,
marketing and sales capabilities or contract with third parties to provide these capabilities. We expect the number of our
employees and the scope of our operations to grow, particularly in the areas of drug development, clinical, regulatory affairs
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and, if any product candidate receives marketing approval, sales, marketing and distribution. To manage our anticipated future growth, we must continue to implement and improve our managerial, operational and financial systems, expand our facilities and continue to recruit and train additional qualified personnel. Due to our limited financial resources and the limited experience of our management team in managing a company with such anticipated growth, we may not be able to effectively manage the expansion of our operations or recruit and train additional qualified personnel. The expansion of our operations may lead to significant costs and may divert our management and business development resources. Any inability to manage growth could delay the execution of our business plans or disrupt our operations. The increasing use of social media platforms presents new risks and challenges. Social media is increasingly being used to communicate about our clinical development programs and the diseases our therapeutics are being developed to treat, and we intend to utilize appropriate social media in connection with our commercialization efforts following approval of our product candidates, if any. Social media practices in the biotechnology and biopharmaceutical industry continue to evolve and regulations and regulatory guidance relating to such use are evolving and not always clear. This evolution creates uncertainty and risk of noncompliance with regulations applicable to our business, resulting in potential regulatory actions against us, along with the potential for litigation related to off- label marketing or other prohibited activities and heightened scrutiny by the FDA, the SEC and other regulators. For example, patients may use social media channels to comment on their experience in an ongoing blinded clinical trial or to report an alleged adverse event. If such disclosures occur, there is a risk that trial enrollment may be adversely impacted, that we may fail to monitor and comply with applicable adverse event reporting obligations or that we may not be able to defend our business or the public's legitimate interests in the face of the political and market pressures generated by social media due to restrictions on what we may say about our product candidates. There is also a risk of inappropriate disclosure of sensitive information or negative or inaccurate posts or comments about us on any social networking website. In addition, we may encounter attacks on social media regarding our company, management, product candidates or products. If any of these events were to occur or we otherwise fail to comply with applicable regulations, we could incur liability, face regulatory actions or incur other harm to our business. Our internal computer systems, or those of our third- party CROs that we may use in the future, or other contractors or consultants, may fail or suffer security breaches incidents, which could result in a material disruption of our product candidates' development programs. Despite our implementation of security measures, our internal computer systems, and those of our CROs that we may use in the future, information technology suppliers and other contractors and consultants are vulnerable to damage from computer viruses, cyberattacks and other unauthorized access, natural disasters, terrorism, war, and telecommunication and electrical failures. If such an event were to occur and cause interruptions in our operations, it could result in a material disruption of our product candidate development programs. For example, the loss of clinical trial data from completed, ongoing or planned clinical trials could result in delays in our regulatory approval efforts and significantly increase our costs to recover or reproduce the data. To the extent that any disruption or security breach incident were to result in a loss of or damage to our data or applications, or inappropriate disclosure of personal, confidential or proprietary information, we could incur liability and the further development of any of our product candidates could be delayed. In addition, our liability and cyber insurance may not be sufficient in type or amount to cover us against claims related to security breaches incidents, cyber- attacks or other related liabilities. Cyberattacks are increasing in their frequency, sophistication, and intensity, and are becoming increasingly difficult to detect. They are often carried out by well-resourced and skilled parties, including nation states, organized crime groups, "hacktivists" and employees or contractors acting carelessly or with malicious intent. Cyber- attacks include deployment of harmful malware and key loggers, ransomware, denial- of- service attacks, malicious websites, the use of social engineering (including phishing attacks), and other means to affect the confidentiality, integrity and availability of our technology systems and data. Cyber- attacks also include manufacturing, hardware or software supply chain attacks, which could cause a delay in the manufacturing of products or products produced for contract manufacturing or lead to a data privacy or security breach incident. Our business partners face similar risks, and any security breach of incident related their systems could adversely affect our security or the security of our systems or data. In addition, our increased use of cloud technologies heightens these third party and other operational risks, and any failure by cloud or other technology service providers to adequately safeguard their systems and prevent cyber- attacks could disrupt our operations and result in misappropriation, corruption, or loss of confidential or propriety information. Risk of cyber- attack is increased with employees working remotely. Remote work increases the risk we may be vulnerable to cybersecurity- related events such as phishing attacks and other security threats . Although we develop and maintain systems and controls designed to prevent these events from occurring, there can be no assurance that our internal information technology systems or those of our third- party contractors, or our consultants' efforts to implement adequate security and control measures, will be sufficient to protect us against breakdowns, service disruption, data deterioration or loss in the event of a system malfunction, or prevent data from being stolen or corrupted in the event of a cyberattack, security incident, industrial espionage attacks or insider threat attacks which could result in financial, legal, business or reputational harm. If a material security incident related to our information technology systems or those of our vendors occurs, the market perception of the effectiveness of our cybersecurity measures could be harmed and our reputation and credibility could be damaged. We could be required to expend significant amounts of money and other resources to repair or replace information systems or networks, including costs to deploy additional personnel and protection technologies, train employees, and engage thirdparty experts and consultants, which could materially and adversely affect our business, financial condition and results of operations. In addition, we could be subject to regulatory actions and / or claims made by individuals and groups in private litigation involving privacy issues related to data collection and use practices and other data privacy laws and regulations, including claims for misuse or inappropriate disclosure of data, as well as unfair or deceptive practices. Our operations or those of the third parties upon whom we depend might be affected by the occurrence of a natural disaster, pandemic, war or other catastrophic event. We depend on our employees and consultants, CDMOs and CROs that we may use in

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the future, as well as regulatory agencies and other parties, for the continued operation of our business. While we maintain
disaster recovery plans, they might not adequately protect us. Despite any precautions we take for natural disasters or other
catastrophic events, these events, including terrorist attacks, pandemics, wars hurricanes, fire, floods and ice and snowstorms,
could result in significant disruptions to our research and development, preclinical studies, clinical trials, and, ultimately,
commercialization of our products. Long- term disruptions in the infrastructure caused by events, such as natural disasters, the
outbreak of war, the escalation of hostilities and acts of terrorism or other "acts of God," particularly involving cities in which
we have offices, manufacturing or clinical trial sites, could adversely affect our businesses. For example, in late February 2022,
Russian military forces launched significant military action against Ukraine, and sustained conflict and disruption in the region
is likely. The impact to Ukraine, as well as actions taken by other countries, including new and stricter sanctions by Canada, the
United Kingdom, the European Union, the United States and other countries and organizations against officials, individuals,
regions, and industries in Russia, Ukraine and Belarus, and each country's potential response to such sanctions, tensions, and
military actions could have an adverse effect on the Company's operations. These countries may impose further sanctions or
other restrictive actions against governmental or other individuals or organizations in Russia or elsewhere. In addition, in
October 2023, Hamas launched an attack on Israel, and Israel declared war on Hamas, with the armed conflict ongoing
as of the date of this filing. The effects of disruptive events could affect the global economy and financial and commodities
markets in ways that cannot necessarily be foreseen at the present time. Although we carry business interruption insurance
policies and typically have provisions in our contracts that protect us in certain events, our coverage might not respond or be
adequate to compensate us for all losses that may occur. Any natural disaster or catastrophic event affecting us, our CDMOs or
CROs, regulatory agencies or other parties with which we are engaged could have a significant negative impact on our
operations and financial performance. Our disclosure controls and procedures may not prevent or detect all errors or acts of
fraud. As a public company, we are subject to the periodic reporting requirements of the Exchange Act. We designed our
disclosure controls and procedures to reasonably assure that information we must disclose in reports we file or submit under the
Exchange Act is accumulated and communicated to management, and recorded, processed, summarized and reported within the
time periods specified in the rules and forms of the SEC. We believe that any disclosure controls and procedures or internal
controls and procedures, no matter how well- conceived and operated, can provide only reasonable, not absolute, assurance that
the objectives of the control system are met. These inherent limitations include the realities that judgments in decision-making
can be faulty, and that breakdowns can occur because of simple error or mistake. For example, our directors or executive
officers could inadvertently fail to disclose a new relationship or arrangement causing us to fail to make a required related party
transaction disclosure. Additionally, controls can be circumvented by the individual acts of some persons, by collusion of two or
more people or by an unauthorized override of the controls. Accordingly, because of the inherent limitations in our control
system, misstatements due to error or fraud may occur and not be detected. If we We and our independent registered public
accounting firm identified identify material weaknesses in our internal control over financial reporting in conjunction with their
audits of our financial statements for the years ended December 31, 2021 and 2020. Those material weaknesses were
subsequently remediated in 2022. If we identify additional material weaknesses in the future or otherwise fail to maintain an
effective system of internal controls, we may not be able to accurately or timely report our financial condition or results of
operations, which may adversely affect our business and the market price of our common stock. We are subject to the
requirements of the Sarbanes-Oxley Act and the applicable SEC rules and regulations that require an annual management report
on our internal control over financial reporting. In preparation of our consolidated financial statements for the years ended
December 31, 2021 and 2020, we and our independent registered public accounting firm identified material weaknesses in our
internal control over financial reporting. Those material weaknesses were subsequently remediated as of December 31, 2022. A
material weakness is a deficiency, or a combination of deficiencies, in internal control over financial reporting, such that there is
a reasonable possibility that a material misstatement of our annual or interim financial statements will not be prevented or
detected on a timely basis. These previously identified material weaknesses related to: 1. not having sufficient finance and
accounting staff with U. S. generally accounting principles (GAAP) technical and accounting expertise to evaluate and
account for significant transactions and oversee our third-party consultants. As a result we did not design and maintain formal
accounting policies, processes and controls to analyze, account for and disclose certain complex transactions, which led to
inappropriate accounting conclusions associated with stock compensation expenses; and 2, the lack of proper monitoring entity
level controls and segregation of duties due to our small accounting staff. We implemented measures designed to improve
internal control over financial reporting, which resulted in the remediation of the control deficiencies that led to these material
weaknesses, including the following: • hired a new Chief Financial Officer in September 2022 with prior experience serving as a
chief financial and accounting officer of several public companies who also served ten years in a major public accounting firm.
We hired a Controller in November 2021 with experience working at a public company and as a manager at a major public
accounting firm. Each of the above personnel have technical accounting expertise and experience with the internal control,
compliance, and financial reporting requirements of companies subject to Public Company Accounting Oversight Board
(PCAOB) standards; • strengthened supervisory reviews by our financial management; • expanded our accounting and finance
team to add additional qualified accounting and finance resources, which included augmenting our finance team with third-
party consultants that possessed the required expertise to assist management with their review. • implemented Oracle NetSuite
as our Enterprise Resource Planning (ERP) solution in the third quarter of 2022, which among other features, has automated
segregation of duties functionality relating to the ability to create and post journal entries to our general ledger; • implemented a
SAAS solution to assist with the review and approval of account reconciliations and other financial close workflows; • enhanced
business process narratives and identification of key controls in our Sarbanes-Oxley Act (SOX Act) framework; and •
performed internal interim and year- end SOX assessments that did not result in the identification of any material weaknesses
related to the design or operating effectiveness of identified key controls. We cannot assure you that we will not identify
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additional material weaknesses in our internal control over financial reporting. In addition, our independent registered public accounting firm has not performed an evaluation of our internal control over financial reporting in accordance with the provisions of the SOX Act because no such evaluation has been required. Had our independent registered public accounting firm performed an evaluation of our internal control over financial reporting in accordance with the provisions of the SOX Act, one or more material weaknesses may have been identified. If future material weaknesses are identified in our internal control over financial reporting, or if we otherwise fail to maintain an effective system of internal controls, the accuracy and timing of our financial reporting may be adversely affected, we may be unable to maintain compliance with securities law requirements regarding timely filing of periodic reports in addition to applicable stock exchange listing requirements, investors may lose confidence in our financial reporting, and the market price of our common stock may decline as a result. If we fail to maintain an effective system of internal control over financial reporting, we may not be able to accurately report our financial results or prevent fraud. As a result, stockholders could lose confidence in our financial and other public reporting, which would harm our business and the trading price of our common stock. Effective internal control over financial reporting is necessary for us to provide reliable financial reports and, together with adequate disclosure controls and procedures, is designed to prevent fraud. Any failure to implement required new or improved controls, or difficulties encountered in their implementation could cause us to fail to meet our reporting obligations. In addition, any testing by us conducted in connection with Section 404, or any subsequent testing by our independent registered public accounting firm, may reveal deficiencies in our internal control over financial reporting that are deemed to be material weaknesses or that may require prospective or retroactive changes to our financial statements or identify other areas for further attention or improvement. Inferior internal controls could also cause investors to lose confidence in our reported financial information, which could harm our business and have a negative effect on the trading price of our stock. We are required to disclose changes made in our internal controls and procedures on a quarterly basis and our management are required to assess the effectiveness of these controls annually. However, for as long as we are an EGC under the JOBS Act, our independent registered public accounting firm will not be required to attest to the effectiveness of our internal control over financial reporting pursuant to Section 404. We could be an EGC for up to five years. Our assessment of internal controls and procedures may not detect material weaknesses in our internal control over financial reporting. Material weaknesses in our internal control over financial reporting may go undetected and could lead to financial statement restatements and require us to incur the expense of remediation, which could have a negative effect on the trading price of our stock. Risks Related to Legal and Compliance Matters We face potential product liability exposure, and if successful claims are brought against us, we may incur substantial liability and have to limit the commercialization of any approved products and / or our product candidates. The use of our product candidates in clinical trials, and the sale of any product for which we obtain regulatory approval, exposes us to the risk of product liability claims. We face inherent risk of product liability related to the testing of our product candidates in human clinical trials, including liability relating to the actions and negligence of our investigators, and will face an even greater risk if we commercially sell any product candidates that we may develop. For example, we may be sued if any product candidate we develop allegedly causes injury or is found to be otherwise unsuitable during clinical testing, manufacturing, marketing or sale. Any such product liability claims may include allegations of defects in manufacturing, defects in design, a failure to warn of dangers inherent in the product, negligence, strict liability or a breach of warranties. Claims could also be asserted under state consumer protection acts. Product liability claims might be brought against us by consumers, healthcare providers or others using, administering or selling our products. If we cannot successfully defend ourselves against these claims, we will incur substantial liabilities or be required to limit commercialization of our product candidates. Even successful defense would require significant financial and management resources. Regardless of merit or eventual outcome, liability claims may result in: • loss of revenue from decreased demand for our products and / or product candidates; • impairment of our business reputation or financial stability; • costs of related litigation; • substantial monetary awards to patients or other claimants; • diversion of management attention; • withdrawal of clinical trial participants and potential termination of clinical trial sites or entire clinical programs; • the inability to commercialize our product candidates; • significant negative media attention; • decreases in our stock price; • initiation of investigations and enforcement actions by regulators; and • product recalls, withdrawals or labeling, marketing or promotional restrictions, including withdrawal of marketing approval. We believe we have sufficient insurance coverage in place for our business operations. However, our insurance coverage may not reimburse us or may not be sufficient to reimburse us for any expenses or losses we may suffer. Moreover, insurance coverage is becoming increasingly expensive, and, in the future, we may not be able to maintain insurance coverage at a reasonable cost or in sufficient amounts to protect us against losses due to liability. We intend to expand our insurance coverage to include the sale of commercial products if we obtain FDA or comparable foreign regulatory approval for our product candidates in development, but we may be unable to obtain commercially reasonable product liability insurance for any products approved for marketing, or at all. Failure to obtain and retain sufficient product liability insurance at an acceptable cost could prevent or inhibit the commercialization of products we develop. On occasion, large judgments have been awarded in class action lawsuits based on therapeutics that had unanticipated side effects. A successful product liability claim or series of claims brought against us could cause our stock price to fall and, if judgments exceed our insurance coverage, could decrease our cash, and materially harm our business, financial condition, results of operations, stock price and prospects. We are subject to the U. S. Foreign Corrupt Practices Act and other anti- corruption laws, as well as import and export control laws, customs laws, sanctions laws and other laws governing our operations. If we fail to comply with these laws, we could be subject to civil or criminal penalties, other remedial measures, and legal expenses, which could adversely affect our business, financial condition, results of operations, stock price and prospects. Our operations are subject to anti- corruption laws, including the Foreign Corrupt Practices Act (FCPA), and other anti-corruption laws that apply in countries where we do business. The FCPA and these other laws generally prohibit us and our employees and intermediaries from bribing, being bribed or making other prohibited payments to government officials or other persons to obtain or retain business or gain some other business advantage.

We also may participate in collaborations and relationships with third parties whose actions, if non-compliant, could potentially subject us to liability under the FCPA or local anti- corruption laws. In addition, we cannot predict the nature, scope or effect of future regulatory requirements to which our international operations might be subject or the manner in which existing laws might be administered or interpreted. We are also subject to other laws and regulations governing our international operations, including regulations administered by the government of the United States, including applicable import and export control regulations, economic sanctions on countries and persons, anti-money laundering laws, customs requirements and currency exchange regulations, collectively referred to as the trade control laws. We can provide no assurance that we will be completely effective in ensuring our compliance with all applicable anti- corruption laws or other legal requirements, including trade control laws. If we are not in compliance with applicable anti-corruption laws or trade control laws, we may be subject to criminal and civil penalties, disgorgement and other sanctions and remedial measures, and legal expenses, which could have an adverse impact on our business, financial condition, results of operations, stock price and prospects. Likewise, any investigation of any potential violations of these anti- corruption laws or trade control laws by United States or other authorities could also have an adverse impact on our reputation, our business, financial condition, results of operations, stock price and prospects. If we fail to comply with federal and state healthcare laws, including fraud and abuse and health and other information privacy and security laws, we could face substantial penalties and our business, financial condition, results of operations, stock price and prospects will be materially harmed. We are subject to many federal and state healthcare laws, such as the federal Anti- Kickback Statute, the federal civil and criminal False Claims Acts, the civil monetary penalties statute, the Medicaid Drug Rebate statute and other price reporting requirements, the Veterans Health Care Act of 1992 (VHCA), HIPAA, the FCPA, the ACA and similar state laws. Even though we do not and will not control referrals of healthcare services or bill directly to Medicare, Medicaid or other third- party payors, certain federal and state healthcare laws, and regulations pertaining to fraud and abuse, reimbursement programs, government procurement, and patients' rights are and will be applicable to our business. We would be subject to healthcare fraud and abuse and patient privacy regulation by both the federal government and the states and foreign jurisdictions in which we conduct our business. In the European Union, the data privacy laws are generally stricter than those which apply in the United States and include specific requirements for the collection of personal data of European Union persons or the transfer of personal data outside of the European Union to the United States to ensure that European Union standards of data privacy will be applied to such data. For more information, see Part I, Item 1 "Business - Other Healthcare Laws and Compliance Requirements." If we or our operations, including our arrangements with physicians and other healthcare providers, some of whom receive share options or other financial interest in the business as compensation for services provided, are found to be in violation of any federal or state healthcare law, or any other governmental laws or regulations that apply to us, we may be subject to penalties, including civil, criminal, and administrative penalties, damages, fines, disgorgement, suspension and debarment from government contracts, and refusal of orders under existing government contracts, exclusion from participation in U. S. federal or state health care programs, corporate integrity agreements, and the curtailment or restructuring of our operations, any of which could materially adversely affect our ability to operate our business and our financial results. If any of the physicians or other healthcare providers or entities with whom we expect to do business is found not to be in compliance with applicable laws, it or they may be subject to criminal, civil or administrative sanctions, including but not limited to, exclusions from participation in government healthcare programs, which could also materially affect our business. Although an effective compliance program can mitigate the risk of investigation and prosecution for violations of these laws, the risks cannot be entirely eliminated. Moreover, achieving and sustaining compliance with applicable federal, state and foreign privacy, data protection, security, reimbursement, and fraud laws may prove costly. Any action against us for violation of these laws, even if we successfully defend against it, could cause us to incur significant legal expenses and divert our management's attention from the operation of our business. Ensuring that our internal operations and future business arrangements with third parties comply with applicable healthcare laws and regulations will involve substantial costs. It is possible that governmental authorities will conclude that our business practices do not comply with current or future statutes, regulations, agency guidance or case law involving applicable fraud and abuse or other healthcare laws and regulations. If our operations are found to be in violation of any of the laws described above or any other governmental laws and regulations that may apply to us, we may be subject to significant penalties, including administrative, civil and criminal penalties, damages, fines, disgorgement, the exclusion from participation in federal and state healthcare programs, individual imprisonment, reputational harm, and the curtailment or restructuring of our operations, as well as additional reporting obligations and oversight if we become subject to a corporate integrity agreement or other agreement to resolve allegations of non- compliance with these laws. Further, defending against any such actions can be costly and time consuming, and may require significant financial and personnel resources. Therefore, even if we are successful in defending against any such actions that may be brought against us, our business may be impaired. If any of the physicians or other providers or entities with whom we expect to do business are found to not be in compliance with applicable laws, they may be subject to criminal, civil or administrative sanctions, including exclusions from government funded healthcare programs and imprisonment. If any of the above occur, our ability to operate our business and our results of operations could be adversely affected. Changes in tax laws or in their implementation or interpretation may adversely affect our business and financial condition. Changes in tax law may adversely affect our business or financial condition. Any new taxes could adversely affect our business and financial performance. Further, existing tax laws, statutes, rules, regulations or ordinances could be interpreted, changed, modified or applied adversely to us. For example, under Section 174 of the Internal Revenue Code of 1986, as amended (the Code), in taxable years beginning after December 31, 2021, expenses that are incurred for research and development in the U. S. will be capitalized and amortized, which may have an adverse effect on our cash flow. In addition, it is uncertain if and to what extent various states will conform to changes to U. S. federal income tax law. We urge prospective investors in our common stock to consult with their legal and tax advisors with respect to any recently enacted tax legislation, or proposed changes in law, and the potential tax consequences of investing in or holding our common stock. Our

ability to utilize our net operating loss carryforwards and certain other tax attributes may be limited. Under Sections 382 and 383 of the Code, if a corporation undergoes an "ownership change" (generally defined as a greater than 50 % change (by value) in its equity ownership by 5 % stockholders over a three- year period), the corporation's ability to use its pre- change net operating loss carryforwards and other pre- change tax attributes to offset its post- change taxable income may be limited. As a result of our most recent private placements, the IPO, and other transactions that have occurred over the past three years, we may have experienced, an "ownership change." We may also experience ownership changes in the future as a result of subsequent shifts in our stock ownership. As of December 31, 2022 2023, we had U. S. federal and state net operating loss carryforwards of \$ 65 86.92 million and \$6179.96 million, which begin to expire in 2027 and 2032, respectively, and which could be limited if we experience an "ownership change." The reduction of the corporate tax rate under TCJA may cause a reduction in the economic benefit of our net operating loss carryforwards and other deferred tax assets available to us. Under current federal tax law, federal net operating losses generated after December 31, 2017 will not be subject to expiration but will not be permitted to be carried back. In addition, under current U. S. federal tax law, the amount of net operating losses generated after December 31, 2020-2017 that we are permitted to deduct in any taxable year is limited to 80 % of our taxable income in such year, where taxable income is determined without regard to the net operating loss deduction itself. Additionally, as of December 31, 2022 2023, we had a U. S. federal net operating loss carryforward of \$57.77. 14 million which do not expire but is limited to an annual deduction equal to 80 % of annual taxable income. If third- party payors fail to provide adequate coverage, reimbursement and payment rates for our product candidates, or if health maintenance organizations or long- term care facilities choose to use therapies that are less expensive or considered a better value, our revenue and prospects for profitability will be limited. In both domestic and foreign markets, sales of our products will depend in part upon the availability of coverage and reimbursement from third- party payors. Such third- party payors include government health programs such as Medicare and Medicaid, managed care providers, private health insurers, and other organizations. Coverage decisions may depend upon clinical and economic standards that disfavor new therapeutic products when more established or lower cost therapeutic alternatives are already available or subsequently become available, even if our products are alone in a class. If reimbursement is not available, or is available only to limited levels, our product candidates may be competitively disadvantaged, and we may not be able to successfully commercialize our product candidates. Even if coverage is provided, the approved reimbursement amount may not be high enough to allow us to establish or maintain a market share sufficient to realize a sufficient return on our or their investments. Alternatively, securing favorable reimbursement terms may require us to compromise pricing and prevent us from realizing an adequate margin over cost. For more information, see Part I, Item 1" Business- Coverage and Reimbursement." There is significant uncertainty related to third- party payor coverage and reimbursement of newly approved therapeutics. Marketing approvals, pricing, and reimbursement for new therapeutic products vary widely from country to country. Current and future legislation may significantly change the approval requirements in ways that could involve additional costs and cause delays in obtaining approvals. Some countries require approval of the sale price of a therapeutic before it can be marketed. In many countries, the pricing review period begins after marketing or product licensing approval is granted. In some foreign markets, prescription biopharmaceutical pricing remains subject to continuing governmental control even after initial approval is granted. As a result, we might obtain marketing approval for a product in a particular country, but then be subject to price regulations that delay commercial launch of the product, possibly for lengthy time periods, which may negatively impact the revenues we are able to generate from the sale of the product in that country. Adverse pricing limitations may hinder our ability to recoup our or their investment in one or more product candidates, even if our product candidates obtain marketing approval. Our ability to commercialize our product candidates will depend in part on the extent to which coverage and reimbursement for these products and related treatments will be available from government health administration authorities. private health insurers and other organizations. Regulatory authorities and third- party payors, such as private health insurers, and health maintenance organizations, decide which medications they will cover and establish reimbursement levels. The healthcare industry is acutely focused on cost containment, both in the United States and elsewhere. Several third- party payors are requiring that companies provide them with predetermined discounts from list prices, are using preferred drug lists to leverage greater discounts in competitive classes, are disregarding therapeutic differentiators within classes, are challenging the prices charged for therapeutics, and are negotiating price concessions based on performance goals. Assuming coverage is approved, the resulting reimbursement payment rates might not be adequate. If payors subject our product candidates to maximum payment amounts, or impose limitations that make it difficult to obtain reimbursement, providers may choose to use therapies which are less expensive when compared to our product candidates. Additionally, if payors require high copayments, beneficiaries may seek alternative therapies. We may need to conduct post-marketing studies in order to demonstrate the costeffectiveness of any products to the satisfaction of hospitals, other target customers and their third- party payors. Such studies might require us to commit a significant amount of management time and financial and other resources. Our products might not ultimately be considered cost- effective. Adequate third- party coverage and reimbursement might not be available to enable us to maintain price levels sufficient to realize an appropriate return on investment in product development. In addition, federal programs impose penalties on manufacturers of therapeutics in the form of mandatory additional rebates and / or discounts if commercial prices increase at a rate greater than the Consumer Price Index- Urban, and these rebates and / or discounts, which can be substantial, may impact our ability to raise commercial prices. A few states have also passed or are considering legislation intended to prevent significant price increases. Regulatory authorities and third- party payors have attempted to control costs by limiting coverage and the amount of reimbursement for particular medications, which could affect our ability to sell our product candidates profitably. These payors may not view our products, if any, as cost-effective, and coverage and reimbursement may not be available to our customers, or may not be sufficient to allow our products, if any, to be marketed on a competitive basis. Cost- control initiatives could cause us to decrease, discount, or rebate a portion of the price we, or they, might establish for products, which could result in lower than anticipated product revenues. If the realized prices for our

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products, if any, decrease or if governmental and other third- party payors do not provide adequate coverage or reimbursement,
our prospects for revenue and profitability will suffer. In addition, third- party payors are increasingly requiring higher levels of
evidence of the benefits and clinical outcomes of new technologies, benchmarking against other therapies, seeking performance-
based discounts, and challenging the prices charged. We cannot be sure that coverage will be available for any product
candidate that we commercialize and, if available, that the reimbursement rates will be adequate. An inability to promptly obtain
coverage and adequate payment rates from both government-funded and private payors for any of our product candidates for
which we obtain marketing approval could have a material adverse effect on our operating results, our ability to raise capital
needed to commercialize products and our overall financial condition. We are subject to new legislation, regulatory proposals
and healthcare payor initiatives that may increase our costs of compliance, and adversely affect our ability to market our
products, obtain collaborators and raise capital. In the United States and some foreign jurisdictions, there have been a number of
legislative and regulatory changes and proposed changes regarding the healthcare system that could prevent or delay marketing
approval of our product candidates, restrict or regulate post-approval activities and affect our ability to profitably sell any
products for which we obtain marketing approval. We expect that current laws, as well as other healthcare reform measures that
may be adopted in the future, may result in more rigorous coverage criteria and in additional downward pressure on the price
that we may receive for any approved products. For more information, see Part I, Item 1" Business- Health Reform." Our
employees, independent contractors, consultants, commercial partners, principal investigators, CROs or CMOs CDMOs may
engage in misconduct or other improper activities, including noncompliance with regulatory standards and requirements and
insider trading, which could have a material adverse effect on our business. We are exposed to the risk of employee fraud or
other misconduct. Misconduct by employees, independent contractors, consultants, commercial partners, principal investigators,
CMOs CDMOs or CROs could include intentional, reckless, negligent, or unintentional failures to comply with FDA
regulations, comply with applicable fraud and abuse laws, provide accurate information to the FDA, properly calculate pricing
information required by federal programs, report financial information or data accurately or disclose unauthorized activities to
us. This misconduct could also involve the improper use or misrepresentation of information obtained in the course of clinical
trials, which could result in regulatory sanctions and serious harm to our reputation. It is not always possible to identify and
deter this type of misconduct, and the precautions we take to detect and prevent this activity may not be effective in controlling
unknown or unmanaged risks or losses or in protecting us from governmental investigations or other actions or lawsuits
stemming from a failure to be in compliance with such laws or regulations. Moreover, it is possible for a whistleblower to
pursue a False Claims Act case against us even if the government considers the claim unmeritorious and declines to intervene,
which could require us to incur costs defending against such a claim. 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, financial
condition, results of operations, stock price and prospects, including the imposition of significant fines or other sanctions. On
March 15, 2024, we notified Dr. Aguilar- Cordova that we had uncovered that, during his tenure as Chief Executive
Officer and possibly his tenure as Chief Scientific Officer, he allegedly (i) instructed Company personnel to falsify
sterility testing results that were submitted to the FDA for CAN- 2409 and (ii) failed to implement an appropriate and
compliant stability testing program for that same program. Upon identifying these deficiencies, we promptly updated
our stability testing program to fully bring it into compliance and submitted additional information and data to the FDA
regarding both the updated program and our prior testing results. Following an internal review and analysis, we also
determined that trial participants who were dosed with CAN- 2409 were not placed at risk, and that there was and is no
risk to the integrity of our resulting clinical data related to the identified deficiencies. In the March 15, 2024 letter, we
also requested that Dr. Aguilar- Cordoya resign from the Board of Directors with immediate effect. On March 26, 2024.
Dr. Aguilar- Cordova denied these allegations in response. Violations of or liabilities under environmental, health and safety
laws and regulations could subject us to fines, penalties or other costs that could have a material adverse effect on the success of
our business. We are subject to numerous environmental, health and safety laws and regulations, including those governing
laboratory procedures, the handling, use, storage, treatment and disposal of hazardous materials and wastes and the cleanup of
contaminated sites. Our operations involve the use of hazardous and flammable materials, including chemicals and biological
and radioactive materials. Our operations also produce hazardous waste products. We would incur substantial costs as a result of
violations of or liabilities under environmental requirements in connection with our operations or property, including fines,
penalties and other sanctions, investigation and cleanup costs and third- party claims. Although we generally contract with third
parties for the disposal of hazardous materials and wastes from our operations, we cannot eliminate the risk of contamination or
injury from these materials. In the event of contamination or injury resulting from our use of hazardous materials, we could be
held liable for any resulting damages, and any liability could exceed our resources. We also could incur significant costs
associated with civil or criminal fines and penalties. Risks Related to Our Reliance on Third Parties For certain product
candidates, we depend, or will depend, on development and commercialization collaborators to develop and conduct clinical
trials with, obtain regulatory approvals for, and if approved, market and sell product candidates. If such collaborators fail to
perform as expected, the potential for us to generate future revenue from such product candidates would be significantly reduced
and our business would be harmed. For certain product candidates, we depend, or will depend, on our development and
commercial collaborators to develop, conduct clinical trials of, and, if approved, commercialize product candidates. We cannot
provide assurance that our collaborators will be successful in or that they will devote sufficient resources to these collaborations.
If our current or future collaboration and commercialization partners do not perform in the manner we expect or fail to fulfill
their responsibilities in a timely manner, or at all, if our agreements with them terminate or if the quality or accuracy of the
clinical data they obtain is compromised, the clinical development, regulatory approval and commercialization efforts related to
their and our product candidates and products could be delayed or terminated and it could become necessary for us to assume
the responsibility at our own expense for the clinical development of such product candidates. Moreover, our ability to generate
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revenues from these collaborations and product candidates will depend on such collaborators' abilities to perform in the manner we expect or fulfill their responsibilities in a timely manner, and delays by collaborators, or caused by other collaboration contract obligations, may result in a delay of our ability to disclose data. Our current collaborations and any future collaborations that we enter into are subject to numerous risks, including: • collaborators have significant discretion in determining the efforts and resources that they will apply to the collaborations; • collaborators may not perform their obligations as expected or fail to fulfill their responsibilities in a timely manner, or at all; • collaborators may not pursue development and commercialization of any product candidates that achieve regulatory approval or may elect not to continue or renew development or commercialization programs based on preclinical studies or clinical trial results, changes in the collaborators' strategic focus or available funding or external factors, such as an acquisition, that divert resources or create competing priorities; • collaborators may delay preclinical studies or clinical trials, provide insufficient funding for clinical trials, stop a preclinical study or clinical trial or abandon a product candidate, repeat or conduct new clinical trials or require a new formulation of a product candidate for clinical testing; • collaborators could fail to make timely regulatory submissions for a product candidate; • we may not have access to, or may be restricted from disclosing, certain information regarding product candidates being developed or commercialized under a collaboration and, consequently, may have limited ability to inform our stockholders about the status of such product candidates; • collaborators could independently develop, or develop with third parties, products that compete directly or indirectly with our product candidates if the collaborators believe that competitive products are more likely to be successfully developed or can be commercialized under terms that are more economically attractive than ours; • the collaborations may not result in product candidates to develop and / or preclinical studies or clinical trials conducted as part of the collaborations may not be successful; • product candidates developed with collaborators may be viewed by our collaborators as competitive with their own product candidates or products, which may cause collaborators to stop commercialization of our product candidates; • a collaborator with marketing and distribution rights to one or more of our product candidates that achieve regulatory approval may not commit sufficient resources to the marketing and distribution of any such product candidate; and • collaborators may not properly maintain or defend our intellectual property rights or may use our proprietary information in such a way as to invite litigation that could jeopardize or invalidate our intellectual property or proprietary information or expose us to potential litigation. In addition, certain collaboration and commercialization agreements provide our collaborators with rights to terminate such agreements, which rights may or may not be subject to conditions, and which rights, if exercised, would adversely affect our product development efforts and could make it difficult for us to attract new collaborators. For example, our license agreement with MGB may be terminated by MGB for our failure to pay, our failure to maintain proper insurance in accordance with the agreement, if we file for bankruptcy or if we remain in default for nonfinancial reasons following a specified cure period to remedy the breach. In the event of the termination of any collaboration or commercialization agreement, we would likely be required to limit the size and scope of efforts for the development and commercialization of such product candidates or products; we would likely be required to seek additional financing to fund further development or identify alternative strategic collaborations; our potential to generate future revenue from royalties and milestone payments from such product candidates or products would be significantly reduced, delayed or eliminated; and it could have an adverse effect on our business and future growth prospects. Our rights to recover tangible and intangible assets and intellectual property rights needed to advance a product candidate or product after termination of a collaboration may be limited by contract, and we may not be able to advance a program post- termination. As a result of the foregoing, our current and any future collaboration agreements may not lead to development or commercialization of our product candidates in the most efficient manner or at all. If a collaborator of ours were to be involved in a business combination, the continued pursuit and emphasis on our product development or commercialization program could be delayed, diminished or terminated. If one of our collaborators terminates its agreement with us, we may find it more difficult to attract new collaborators and our reputation in the business and financial communities could be adversely affected. Any failure to successfully develop or commercialize our product candidates pursuant to our current or any future collaboration agreements could have a material and adverse effect on our business, financial condition, results of operations and prospects. If conflicts arise with our development and commercialization collaborators or licensors, they may act in their own self- interest, which may be adverse to the interests of our company. We may in the future experience disagreements with our development and commercialization collaborators or licensors. Conflicts may arise in our collaboration and license arrangements with third parties due to one or more of the following: • disputes with respect to milestone, royalty and other payments that are believed due under the applicable agreements; • disagreements with respect to the ownership of intellectual property rights or scope of licenses; • disagreements with respect to the scope of any reporting obligations; • disagreements with respect to contract interpretation or the preferred course of development; • unwillingness on the part of a collaborator to keep us informed regarding the progress of its development and commercialization activities, or to permit public disclosure of these activities; and • disputes with respect to a collaborator's or our development or commercialization efforts with respect to our products and product candidates. Conflicts with our development and commercialization collaborators or licensors could materially adversely affect our business, financial condition or results of operations and future growth prospects. We rely on third parties, including independent clinical investigators and CROs to conduct and sponsor some of the clinical trials of our product candidates. Any failure by a third party to meet its obligations with respect to the clinical development of our product candidates may delay or impair our ability to obtain regulatory approval for our product candidates. We have relied upon and plan to continue to rely upon third parties, including independent clinical investigators, academic partners, medical institutions, regulatory affairs consultants and thirdparty CROs, to conduct our preclinical studies and clinical trials, including in some instances sponsoring such clinical trials, and to engage with regulatory authorities and monitor and manage data for our ongoing preclinical and clinical programs. While we have, or will have, agreements governing the activities of such third parties, we will control only certain aspects of their activities and have limited influence over their actual performance. Any of these third parties may terminate their engagements

with us under certain circumstances. We may not be able to enter into alternative arrangements or do so on commercially reasonable terms. In addition, there is a natural transition period when a new contract research organization begins work. As a result, delays would likely occur, which could negatively impact our ability to meet our expected clinical development timelines and harm our business, financial condition and prospects. We remain responsible for ensuring that each of our preclinical studies and clinical trials is conducted in accordance with the applicable protocol and legal, regulatory and scientific standards, and our reliance on these third parties does not relieve us of our regulatory responsibilities. We and our third-party contractors and CROs are required to comply with GCP requirements, which are regulations and guidelines enforced by the FDA, the Competent Authorities of the Member States of the EEA and comparable foreign regulatory authorities for all of our products in clinical development. Regulatory authorities enforce these GCP requirements through periodic inspections of trial sponsors, principal investigators and trial sites. If we fail to exercise adequate oversight over any of our academic partners or CROs or if we or any of our academic partners or CROs do not successfully carry out their contractual duties or obligations, fail to meet expected deadlines, or if the quality or accuracy of the clinical data they obtain is compromised due to the failure to adhere to our clinical protocols or regulatory requirements, or for any other reasons, the clinical data generated in our clinical trials may be deemed unreliable and the FDA, the EMA or comparable foreign regulatory authorities may require us to perform additional clinical trials before approving our marketing applications. We cannot assure you that upon a regulatory inspection of us, our academic partners or our CROs or other third parties performing services in connection with our clinical trials, such regulatory authority will determine that any of our clinical trials complies with GCP regulations. In addition, our clinical trials must be conducted with product produced under applicable cGMP regulations. Our failure to comply with these regulations may require us to repeat clinical trials, which would delay the regulatory approval process. Furthermore, the third parties conducting clinical trials on our behalf are not our employees, and except for remedies available to us under our agreements with such contractors, we cannot control whether or not they devote sufficient time, skill and resources to our ongoing development programs. These contractors 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 impede their ability to devote appropriate time to our clinical programs. If these third parties, including clinical investigators, do not successfully carry out their contractual duties, meet expected deadlines or conduct our clinical trials in accordance with regulatory requirements or our stated protocols, we may not be able to obtain, or may be delayed in obtaining, marketing approvals for our product candidates. If that occurs, we will not be able to, or may be delayed in our efforts to, successfully commercialize our product candidates. In addition, with respect to investigator- sponsored trials that are being or may be conducted, we do not control the design or conduct of these trials, and it is possible that the FDA or EMA will not view these investigator-sponsored trials as providing adequate support for future clinical trials or market approval, whether controlled by us or third parties, for any one or more reasons, including elements of the design or execution of the trials or safety concerns or other trial results. We expect that such arrangements will provide us certain information rights with respect to the investigator- sponsored trials, including the ability to obtain a license to obtain access to use and reference the data, including for our own regulatory submissions, resulting from the investigatorsponsored trials. However, we do not have control over the timing and reporting of the data from investigator- sponsored trials, nor do we own the data from the investigator-sponsored trials. If we are unable to confirm or replicate the results from the investigator- sponsored trials or if negative results are obtained, we would likely be further delayed or prevented from advancing further clinical development. Further, if investigators or institutions breach their obligations with respect to the clinical development of our product candidates, or if the data proves to be inadequate compared to the firsthand knowledge we might have gained had the investigator-sponsored trials been sponsored and conducted by us, then our ability to design and conduct any future clinical trials ourselves may be adversely affected. Additionally, the FDA or EMA may disagree with the sufficiency of our right of reference to the preclinical, manufacturing or clinical data generated by these investigator-sponsored trials, or our interpretation of preclinical, manufacturing or clinical data from these investigator-sponsored trials. If so, the FDA or EMA may require us to obtain and submit additional preclinical, manufacturing, or clinical data. We also expect to develop commercial- scale manufacturing at third- party manufacturers for our product candidate CAN- 2409. We may develop clinical manufacturing capabilities at our facility in Needham, Massachusetts for our product candidate CAN-3110 and we may also develop clinical-scale manufacturing-for CAN-3110 at third- party manufacturers. There can be no assurance that our supply of clinical product will not be limited, interrupted, or of satisfactory quality or continue to be available at acceptable prices. In particular, any replacement of our CMOs CDMOs could require significant effort and expertise because there may be a limited number of qualified replacements. Any delays in obtaining adequate supplies of our product candidates that meet the necessary quality standards, including delays caused by the COVID-19 pandemic any future public health crisis, may delay our development or commercialization. We may not succeed in our efforts to establish manufacturing relationships or other alternative arrangements for any of our product candidates or programs. Our product candidates may compete with other products and product candidates for access to manufacturing facilities. There are a limited number of manufacturers that operate under cGMP regulations and that are both capable of manufacturing and filling our viral product for us and willing to do so. If our existing third- party manufacturers, or the third parties that we engage in the future, should cease to work with us, we likely would experience delays in obtaining sufficient quantities of our product candidates for us to meet commercial demand or to advance our clinical trials while we identify and qualify replacement suppliers. If for any reason we are unable to obtain adequate supplies of our product candidates or the therapeutic substances used to manufacture them, it will be more difficult for us to develop our product candidates and compete effectively. Further, even if we do establish such collaborations or arrangements, our third- party manufacturers may breach, terminate, or not renew these agreements. Any problems or delays we experience in preparing for commercial- scale manufacturing of a product candidate or component may result in a delay in product development timelines and FDA or comparable foreign regulatory authority approval of the product candidate or may impair our ability to manufacture commercial quantities or such quantities at an acceptable cost and quality, which could result

in the delay, prevention, or impairment of clinical development and commercialization of our product candidates and may materially harm our business, financial condition, results of operations, stock price and prospects. The manufacture of biopharmaceutical products requires significant expertise and capital investment, including the development of advanced manufacturing techniques and process controls. Manufacturers of therapeutics often encounter difficulties in production, particularly in scaling up initial production. These problems include difficulties with production costs and yields, quality control, including stability of the product candidate and quality assurance testing, shortages of qualified personnel or key raw materials, and compliance with strictly enforced federal, state, and foreign regulations. Our CMOs CDMOs may not perform as agreed. If our manufacturers were to encounter these or other difficulties, our ability to provide product candidates to patients in our clinical trials could be jeopardized. CMOs-CDMOs of our product candidates may be unable to comply with our specifications, applicable cGMP requirements or other FDA, state or foreign regulatory requirements. Poor control of production processes can lead to the introduction of adventitious agents or other contaminants, or to inadvertent changes in the properties or stability of a product candidate that may not be detectable in final product testing. If our CMOs CDMOs cannot successfully manufacture material that conforms to our specifications and the strict regulatory requirements of the FDA or other regulatory authorities, they will not be able to secure or maintain regulatory approval for their manufacturing facilities. Any such deviations may also require remedial measures that may be costly and / or time consuming for us or a third party to implement and that may include the temporary or permanent suspension of a clinical trial or the temporary or permanent closure of a facility. Any such remedial measures imposed upon us or third parties with whom we contract could materially harm our business. Any delays in obtaining products or product candidates that comply with the applicable regulatory requirements may result in delays to clinical trials, product approvals, and commercialization. It may also require that we conduct additional studies. While we are ultimately responsible for the manufacturing of our product candidates and therapeutic substances, other than through our contractual arrangements, we have little control over our manufacturers' compliance with these regulations and standards. If the FDA or a comparable foreign regulatory authority does not approve these facilities for the manufacture of our product candidates or if it withdraws any such approval in the future, we may need to find alternative manufacturing facilities, which would significantly impact our ability to develop, obtain regulatory approval for or market our product candidates, if approved. Any new manufacturers would need to either obtain or develop the necessary manufacturing know- how, and obtain the necessary equipment and materials, which may take substantial time and investment. We must also receive approval from the FDA and applicable comparable foreign regulatory authorities for the use of any new manufacturers for commercial supply. The regulatory authorities may also require additional studies if a new manufacturer is relied upon for commercial production. In some cases, the technical skills required to manufacture our product candidates may be unique or proprietary to the original CMO CDMO 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. In addition, if we are required to change CDMOs for any reason, we will be required to verify that the new CDMO maintains facilities and procedures that comply with quality standards and with all applicable regulations. We will also need to verify, such as through a manufacturing comparability study, that any new manufacturing process will produce our product or product candidate according to the specifications previously submitted to or approved by the FDA or another regulatory authority. The delays associated with the verification of a new CMO-CDMO could negatively affect our ability to develop product candidates or once approved, to commercialize those product candidates in a timely manner or within budget. 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. Accordingly, switching manufacturers may involve substantial costs and is likely to result in a delay in our desired clinical and commercial timelines. A failure to comply with the applicable regulatory requirements, including periodic regulatory inspections, may result in regulatory enforcement actions against our manufacturers or us (including fines and civil and criminal penalties, including imprisonment) suspension or restrictions of production, injunctions, delay or denial of product approval or supplements to approved products, clinical holds or termination of clinical trials, warning or untitled letters, regulatory authority communications warning the public about safety issues with the product candidate, refusal to permit the import or export of the products, product seizure, detention, or recall, operating restrictions, suits under the civil False Claims Act, corporate integrity agreements, consent decrees, withdrawal of product approval, environmental or safety incidents and other liabilities. If the safety of any quantities supplied is compromised due to our manufacturers' failure to adhere to applicable laws or for other reasons, we may not be able to obtain regulatory approval for or successfully commercialize our product candidates. Any failure or refusal to supply our product candidates or components for our product candidates that we may develop could delay, prevent or impair our clinical development or commercialization efforts. Any change in our manufacturers could be costly because the commercial terms of any new arrangement could be less favorable and because the expenses relating to the transfer of necessary technology and processes could be significant. Some of our product candidates are being and may be studied in third-party research and clinical trials sponsored by organizations or agencies other than us, or in investigator- sponsored clinical trials, which means we will have minimal or no control over the conduct of such trials and which may adversely affect our ability to obtain marketing approval or certain regulatory exclusivities. We have supplied and may continue to supply and otherwise support third party research, including investigator- sponsored clinical trials. Investigator- sponsored clinical trials pose similar risks as those set forth elsewhere in this "Risk Factors" section relating to our internally- sponsored clinical trials, but because we are not be the sponsors of these trials, we have less control over the protocols, administration or conduct of these trials, including follow- up with patients and ongoing collection of data after treatment. Additionally, third party clinical research has been and may continue to be conducted with CAN- 3110 and CAN- 2409 which was not provided by us. The conduct or findings of these trials may have a negative impact on our development programs notwithstanding that we have little

involvement or control over these trials. As a result, we are subject to additional risks associated with the way investigatorsponsored trials are conducted. In particular, for trials in which we supply drug product, we may be named in lawsuits that would lead to increased costs associated with legal defense. Additional risks include difficulties or delays in communicating with investigators or administrators, procedural delays and other timing issues and difficulties or differences in interpreting data. Third- party investigators may design clinical trials with clinical endpoints that are more difficult to achieve, or in other ways that increase the risk of negative clinical trial results compared to clinical trials that we may design on our own. Negative results in investigator- sponsored clinical trials could have a material adverse effect on our efforts to obtain regulatory approval for our product candidates and the public perception of our product candidates. As a result, our lack of control over the conduct and timing of and communications with the FDA and other regulatory authorities regarding investigator- sponsored trials may expose us to additional risks and uncertainties, many of which are outside our control, and the occurrence of which could adversely affect the commercial prospects for our product candidates. In addition, third parties that are investigating product candidates which have not been provided by us may seek and obtain regulatory approval of product candidates before we do, which may adversely affect our development strategy and eligibility for certain exclusivities for which we may otherwise be eligible. We have completed and may in the future complete related party transactions that were not and may not be conducted on an arm's length basis. We have in the past been and continue to be party to certain transactions with certain entities affiliated with Estuardo Aguilar- Cordova, our founder and former Chief Scientific Officer, and Laura Aguilar, our former Chief Medical Officer. For instance, we have entered into an exclusive license agreement with Ventagen, LLC (Ventagen), an entity owned in part (49. 5 %), though not managed, by Estuardo Aguilar-Cordova and Laura Aguilar, for the use of worldwide patent rights and know- how owned or controlled by us which cover applicable technology utilizing the delivery method of the herpes derived TK protein to tumors or other tissues via a viral vector. In January 2008, we entered into an operating lease agreement with a term through December 31, 2022 with Ellka Holdings, LLC (Ellka), for the space in which we operated in Auburndale, MA. In May 2016, we entered into a second lease agreement with Ellka for living space for employees, also in Auburndale, MA. We entered into a second lease for this space on July 26, 2018, which expired on July 31, 2019. Ellka was originally established in 2007 as an LLC for the purpose of acquiring and managing investment properties owned by Laura Aguilar and Estuardo Aguilar- Cordova and their children's trusts. Ellka is owned and operated by Laura Aguilar and Estuardo Aguilar-Cordova and members of their immediate family. Although we believe that these transactions were conducted on an arm's length basis, it is possible that the terms were less favorable to us than they might have been in a transaction with an unrelated party. As of March 15 21, 2023-2024, Estuardo Aguilar-Cordova and Laura Aguilar beneficially owned 6, 216-200, 971-755 shares of our common stock, or approximately 21. 5-1 % of our total outstanding capital stock as of such date. Accordingly, they will continue to have significant influence over all business decisions, including with respect to such matters as amendments to our charter, other fundamental corporate transactions, such as mergers, asset sales, and the sale of the Company, and otherwise will be able to influence our business and affairs. In connection with the IPO, we adopted a written related-person transactions policy that sets forth our policies and procedures regarding the identification, review, consideration and oversight of relatedperson transactions. Our reliance on third parties requires us to share our trade secrets, which increases the possibility that a competitor will discover them or that our trade secrets will be misappropriated or disclosed. Because we rely on third parties to manufacture our product candidates, and because we collaborate with various organizations and academic institutions on the development of our product candidates, we must, at times, share trade secrets with them. We seek to protect our proprietary technology in part by entering into confidentiality agreements and, if applicable, material transfer agreements, collaborative research agreements, consulting agreements or other similar agreements with our collaborators, advisors, employees and consultants prior to beginning research or disclosing proprietary information. These agreements typically limit the rights of the third parties to use or disclose our confidential information, such as trade secrets. Despite the contractual provisions employed when working with third parties, the need to share trade secrets and other confidential information increases the risk that such trade secrets become known by our competitors, are inadvertently incorporated into the technology of others, or are disclosed or used in violation of these agreements. Given that our proprietary position is based, in part, on our know- how and trade secrets, a competitor's discovery of our trade secrets or other unauthorized use or disclosure would impair our competitive position and may have a material adverse effect on our business. In addition, these agreements typically restrict the ability of our collaborators, advisors, employees and consultants to publish data potentially relating to our trade secrets. Our academic collaborators typically have rights to publish data, provided that we are notified in advance and may delay publication for a specified time in order to secure our intellectual property rights arising from the collaboration. In other cases, publication rights are controlled exclusively by us, although in some cases we may share these rights with other parties. Despite our efforts to protect our trade secrets, our competitors may discover our trade secrets, either through breach of these agreements, independent development or publication of information including our trade secrets in cases where we do not have proprietary or otherwise protected rights at the time of publication. A competitor's discovery of our trade secrets would impair our competitive position and have an adverse impact on our business. Risks Related to Intellectual Property We are and expect to continue to be reliant upon third- party licensors for certain patent and other intellectual property rights that are important or necessary to the development of some of our technology and product candidates. For example, we rely on licenses from MGB and Periphagen to certain patent rights. These license agreements impose, and we expect that any future license agreement will impose, specified diligence, milestone payment, royalty, commercialization, development and other obligations on us and require us to meet development timelines, or to exercise diligent or commercially reasonable efforts to develop and commercialize licensed products, in order to maintain the licenses. Furthermore, our licensors have, or may in the future have, the right to terminate a license if we materially breach the agreement and fail to cure such breach within a specified period or in the event we undergo certain bankruptcy events. In spite of our best efforts, our current or any future licensors might conclude that we have materially breached our license agreements and might therefore terminate the license agreements. For example, Periphagen has asserted

that we have failed to use commercially reasonable efforts to complete a human proof of concept clinical trial of an NT-3 Asset as required in our exclusive license agreement with Periphagen. Periphagen has triggered the dispute and escalation provisions under the Periphagen License Agreement. If we are unable to resolve the issue and an any arbitrator concludes that we failed to use such commercially reasonable efforts, then we may submit a specified payment in lieu of satisfying such obligations or our Periphagen may terminate the Periphagen License Agreement. If our Periphagen license or our other license agreements are terminated, we may lose our rights to develop and commercialize certain of our product candidates and technology, lose patent protection, experience significant delays in the development and commercialization of certain of our product candidates and technology, and incur liability for damages. If these in-licenses are terminated, or if the underlying intellectual property fails to provide the intended exclusivity, our competitors or other third parties could have the freedom to seek regulatory approval of, and to market, products and technologies identical or competitive to ours and we may be required to cease our development and commercialization of certain of our product candidates and technology. In addition, we may seek to obtain additional licenses from our licensors and, in connection with obtaining such licenses, we may agree to amend our existing licenses in a manner that may be more favorable to the licensors, including by agreeing to terms that could enable third parties, including our competitors, to receive licenses to a portion of the intellectual property that is subject to our existing licenses and to compete with any product candidates we may develop and our technology. Any of the foregoing could have a material adverse effect on our competitive position, business, financial condition, results of operations and prospects. Disputes may arise regarding intellectual property subject to a licensing agreement, including: • the scope of rights granted under the license agreement and other interpretation-related issues; • our or our licensors' ability to obtain, maintain and defend intellectual property and to enforce intellectual property rights against third parties; • the extent to which our technology, product candidates and processes infringe, misappropriate or otherwise violate the intellectual property of the licensor that is not subject to the license agreement; • the sublicensing of patent and other intellectual property rights under our license agreements; • our diligence, development, regulatory, commercialization, financial or other obligations under the license agreement and what activities satisfy those diligence obligations; • the inventorship and ownership of inventions and know- how resulting from the joint creation or use of intellectual property by our current or future licensors and us and our partners; and • the priority of invention of patented technology. In addition, our license agreements are, and future license agreements are likely to be, complex, and certain provisions in such agreements may be susceptible to multiple interpretations. The resolution of any contract interpretation disagreement that may arise could narrow what we believe to be the scope of our rights to the relevant intellectual property or technology, or increase what we believe to be our diligence, development, regulatory, commercialization, financial or other obligations under the relevant agreement. In addition, if disputes over intellectual property that we have licensed or any other dispute related to our license agreements prevent or impair our ability to maintain our current license agreements on commercially acceptable terms, we may be unable to successfully develop and commercialize the affected product candidates and technology. Any of the foregoing could have a material adverse effect on our business, financial condition, results of operations and prospects. License agreements we may enter into in the future may be non-exclusive. Accordingly, third parties may also obtain non- exclusive licenses from such licensors with respect to the intellectual property licensed to us under such license agreements. Accordingly, these license agreements may not provide us with exclusive rights to use such licensed patent and other intellectual property rights, or may not provide us with exclusive rights to use such patent and other intellectual property rights in all relevant fields of use and in all territories in which we may wish to develop or commercialize our technology and any product candidates we may develop in the future. Moreover, some of our in-licensed patent and other intellectual property rights may in the future be subject to third-party interests such as co-ownership. If we are unable to obtain an exclusive license to such third-party co-owners' interest, in such patent and other intellectual property rights, such thirdparty co-owners may be able to license their rights to other third parties, including our competitors, and our competitors could market competing products and technology. We or our licensors may need the cooperation of any such co-owners of our licensed patent and other intellectual property rights in order to enforce them against third parties, and such cooperation may not be provided to us or our licensors. Additionally, we may not have complete control over the preparation, filing, prosecution, maintenance, enforcement and defense of patents and patent applications that we license from third parties. It is possible that our licensors' filing, prosecution and maintenance of the licensed patents and patent applications, enforcement of patents against infringers or defense of such patents against challenges of validity or claims of enforceability may be less vigorous than if we had conducted them ourselves, and accordingly, we cannot be certain that these patents and patent applications will be prepared, filed, prosecuted, maintained, enforced and defended in a manner consistent with the best interests of our business. If our licensors fail to file, prosecute, maintain, enforce and defend such patents and patent applications, or lose rights to those patents or patent applications, the rights we have licensed may be reduced or eliminated, our right to develop and commercialize any of our technology and any product candidates we may develop that are the subject of such licensed rights could be adversely affected and we may not be able to prevent competitors or other third parties from making, using and selling competing products. Furthermore, our owned and in-licensed patent rights may be subject to a reservation of rights by one or more third parties. When new technologies are developed with government funding, in order to secure ownership of patent rights related to the technologies, the recipient of such funding is required to comply with certain government regulations, including timely disclosing the inventions claimed in such patent rights to the U. S. government and timely electing title to such inventions. A failure to meet these obligations may lead to a loss of rights or the unenforceability of relevant patents or patent applications. Our success depends in part on our ability to protect our intellectual property. It is difficult and costly to protect our proprietary rights and technology, and we may not be able to ensure their protection. Our business will depend in large part on obtaining and maintaining patent, trademark and trade secret protection of our proprietary technologies and our product candidates, their formulations, combination therapies, methods used to manufacture them and methods of treatment, as well as successfully defending these patents against third- party challenges. Our ability to stop unauthorized third parties from making, using,

selling, offering to sell or importing our product candidates is dependent upon the extent to which we have rights under valid and enforceable patents that cover these activities and whether a court would issue an injunctive remedy. If we are unable to secure and maintain patent protection for any product or technology we develop, or if the scope of the patent protection secured is not sufficiently broad, our competitors could develop and commercialize products and technology similar or identical to ours, and our ability to commercialize any product candidates we may develop may be adversely affected. The patenting process is expensive and time- consuming, and we may not be able to file and prosecute all necessary or desirable patent applications at a reasonable cost or in a timely manner. In addition, we may not pursue, obtain, or maintain patent protection in all relevant markets. It is also possible that we will fail to identify patentable aspects of our research and development output before it is too late to obtain patent protection. Moreover, in some circumstances, we may not have the right to control the preparation, filing and prosecution of patent applications, or to maintain the patents, covering technology that we license from or license to third parties and are reliant on our licensors or licensees. The strength of patents in the biotechnology and biopharmaceutical field involves complex legal and scientific questions and can be uncertain. The patent applications that we own or in-license may fail to result in issued patents with claims that cover our product candidates or uses thereof in the United States or in other foreign countries. Even if the patents do successfully issue, 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 technology, including our product candidates, or prevent others from designing around our claims. If the breadth or strength of protection provided by the patent applications and patents 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. We cannot be certain that we were the first to file any patent application related to our technology and directed to our product candidates, and, if we were not, we may be precluded from obtaining patent protection for our technology, including our product candidates. We cannot be certain that we are the first to invent the inventions covered by pending patent applications and patents, and, if we are not, we may be subject to priority disputes. Furthermore, for United States applications in which all claims are entitled to a priority date before March 16, 2013, an interference proceeding can be provoked by a third- party or instituted by the USPTO to determine who was the first to invent any of the subject matter covered by the patent claims of our applications and patents. Similarly, for United States applications in which at least one claim is not entitled to a priority date before March 16, 2013, derivation proceedings can be instituted to determine whether the subject matter of a patent claim was derived from a prior inventor's disclosure. We may be required to disclaim part or all of the term of certain patents or all of the term of certain patent applications. There may be prior art of which we are not aware that may affect the validity or enforceability of a patent or patent application claim. There also may be prior art of which we are aware, but which we do not believe affects the validity or enforceability of a claim, which may, nonetheless, ultimately be found to affect the validity or enforceability of a claim. No assurance can be given that if challenged, our patents would be declared by a court to be valid or enforceable or that even if found valid and enforceable, would adequately protect our product candidates, or would be found by a court to be infringed by a competitor's technology or product. We may analyze patents or patent applications of our competitors that we believe are relevant to our activities, and consider that we are free to operate in relation to our product candidates, but our competitors may achieve issued claims, including in patents we consider to be unrelated, which block our efforts or may potentially result in our product candidates or our activities infringing such claims. The possibility exists that others will develop products which have the same effect as our products on an independent basis which do not infringe our patents or other intellectual property rights, or will design around the claims of patents that may issue that cover our products. Changes in either the patent laws or interpretation of the patent laws in the United States and other countries may diminish the value of the patents we in-license or narrow the scope of our patent protection. In addition, the laws of foreign countries may not protect our rights to the same extent or in the same manner as the laws of the United States. For example, European patent law is more restrictive than U. S. patent law in connection with the patentability of methods of treatment of the human body and Chinese bankruptcy law may not provide a licensee the same protections as U. S. bankruptcy law. Furthermore, in the United States, patent reform legislation could increase the uncertainties and costs surrounding the prosecution of our patent applications and the enforcement or defense of our issued patents. Under the Leahy-Smith America Invents Act (the America Invents Act), enacted in 2013, the United States moved from a "first to invent" to a "first- to- file" system. Under a "first- to- file" system, assuming the other requirements for patentability are met, the first inventor to file a patent application generally will be entitled to a patent on the invention regardless of whether another inventor had made the invention earlier. The America Invents Act includes a number of other significant changes to U. S. patent law, including provisions that affect the way patent applications are prosecuted, redefine prior art and establish a new post- grant review system. The effects of these changes are unclear as the USPTO continues to develop new regulations and procedures in connection with the America Invents Act. In addition, the patent positions of companies in the development and commercialization of biopharmaceuticals are particularly uncertain. Recent U. S. Supreme Court rulings have narrowed the scope of patent protection available in certain circumstances and weakened the rights of patent owners in certain situations. This combination of events has created uncertainty with respect to the validity and enforceability of patents, once obtained. Depending on future actions by the U. S. Congress, the federal courts, and the USPTO, the laws and regulations governing patents could change in unpredictable ways that could increase the uncertainties and costs surrounding the prosecution of our patent applications and have a material adverse effect on our existing patent portfolio and our ability to protect and enforce our intellectual property in the future. In addition, a-the European Union opened a Unified Patent Court (UPC) in June is scheduled to come into force during 2023. The UPC is will be a common patent court to that hear-hears patent infringement and revocation proceedings effective for member states of the European Union. This could enable third parties to seek revocation of any of our European patents in a single proceeding at the UPC rather than

through multiple proceedings in each of the jurisdictions in which the European patent is validated. Any such revocation and loss of patent protection could have a material adverse impact on our business and our ability to commercialize or license our technology and products. Moreover, the controlling laws and regulations of the UPC will develop over time, and may adversely affect our ability to enforce or defend the validity of our European patents. We have opted out of the UPC for our European patents and applications and may decide to opt out our of any future European patents and patent applications from the UPC. If certain formalities and requirements are not met, however, our European patents and patent applications could be challenged for non-compliance and brought under the jurisdiction of the UPC. We cannot be certain that our European patents and patent applications will avoid falling under the jurisdiction of the UPC, even if we decide elected, or in the future elect, to opt out of the UPC. We cannot predict whether the patent applications we in-license currently being pursued will issue as patents, whether the claims of any patent that has or may issue will provide us with a competitive advantage or prevent competitors from designing around the claims to develop competing technologies in a non- infringing manner, or whether we or our licensors will be able to successfully pursue patent applications in the future relating to our current product candidates or future products and product candidates. Moreover, the patent application and approval process is expensive and time- consuming. We or our licensors may not be able to file and prosecute all necessary or desirable patent applications at a reasonable cost or in a timely manner. Furthermore, we, or any future partners, collaborators, or licensees, may fail to identify patentable aspects of inventions made in the course of development and commercialization activities before it is too late to obtain patent protection on them. Therefore, we may miss potential opportunities to seek additional patent protection. Even if the patent applications we inlicense issue as patents, they may not issue in a form that will provide us with any meaningful protection, prevent competitors from competing with us or otherwise provide us with any competitive advantage. Our competitors may be able to circumvent our patent rights by developing similar or alternative technologies or products in a non-infringing manner. Our competitors may also seek approval to market their own products similar to or otherwise competitive with our product candidates. Alternatively, our competitors may seek to market generic versions of any approved products by submitting abbreviated BLAs to the FDA during which process they may claim that patents licensed by us are invalid, unenforceable or not infringed. In these circumstances, we may need to defend or assert our intellectual property rights, or both, including by filing lawsuits alleging patent infringement. In any of these types of proceedings, a court or other agency with jurisdiction may find the patents we inlicense invalid or unenforceable, or that our competitors are competing in a non-infringing manner. Thus, even if we have inlicensed valid and enforceable patents, these patents still may not provide protection against competing products or processes sufficient to achieve our business objectives. Any of the foregoing could have a material adverse effect on our competitive position, business, financial conditions, results of operations, and prospects. The degree of future protection for our proprietary rights is uncertain because legal means afford only limited protection and may not adequately protect our rights or permit us to gain or keep our competitive advantage. For example: • others may be able to make or use compounds that are similar to the compositions of our product candidates but that are not covered by the claims of our patents or those of our licensors; • we or our licensors, as the case may be, may fail to meet our obligations to the U. S. government in regards to any in-licensed patents and patent applications funded by U. S. government grants, leading to the loss of patent rights; • we or our licensors, as the case may be, might not have been the first to file patent applications for these inventions; • others may independently develop similar or alternative technologies or duplicate any of our technologies; • it is possible that our pending patent applications will not result in issued patents; • it is possible that there are prior public disclosures that could invalidate our or our licensors' patents, as the case may be, or parts of our or their patents; • it is possible that others may circumvent our owned or in-licensed patents; • it is possible that there are unpublished applications or patent applications maintained in secrecy that may later issue with claims covering our products or technology similar to ours; • the laws of foreign countries may not protect our or our licensors', as the case may be, proprietary rights to the same extent as the laws of the United States; • the claims of our owned or in-licensed issued patents or patent applications, if and when issued, may not cover our product candidates; • our owned, co- owned, or inlicensed issued patents may not provide us with any competitive advantages, may be narrowed in scope, or be held invalid or unenforceable as a result of legal challenges by third parties; • the inventors of our owned, co- owned, or in- licensed patents or patent applications may become involved with competitors, develop products or processes which design around our patents, or become hostile to us or the patents or patent applications on which they are named as inventors; • the co- owners of certain of our patent applications may become involved with, or license or assign the co-owned applications to competitors, or become hostile to us or the patents or patent applications on which they are named as co-owners; • it is possible that our owned or inlicensed patents or patent applications omit individual (s) that should be listed as inventor (s) or include individual (s) that should not be listed as inventor (s), which may cause these patents or patents issuing from these patent applications to be held invalid or unenforceable; • we have engaged in scientific collaborations in the past, and will continue to do so in the future. Such collaborators may develop adjacent or competing products to ours that are outside the scope of our patents; • we may not develop additional proprietary technologies for which we can obtain patent protection; • it is possible that product candidates or diagnostic tests we develop may be covered by third parties' patents or other exclusive rights; or • the patents of others may have an adverse effect on our business. We may enter into license or other collaboration agreements in the future that may impose certain obligations on us. If we fail to comply with our obligations under such future agreements with third parties, we could lose license rights that may be important to our future business. In connection with our efforts to expand our pipeline of product candidates, we may enter into certain licenses or other collaboration agreements in the future pertaining to the inlicense of rights to additional candidates. Such agreements may impose various diligence, milestone payment, royalty, insurance or other obligations on us. If we fail to comply with these obligations, our licensor or collaboration partners may have the right to terminate the relevant agreement, in which event we would not be able to develop or market the products covered by such licensed intellectual property. Moreover, disputes may arise regarding intellectual property subject to a licensing agreement, including: • the extent to which our product candidates, technology and processes infringe on intellectual property of the

licensor that is not subject to the licensing agreement; • the sublicensing of patent and other rights under our collaborative development relationships; • our diligence obligations under the license agreement and what activities satisfy those diligence obligations; • the inventorship and ownership of inventions and know-how resulting from the joint creation or use of intellectual property by our licensors and us and our partners; and In addition, the agreements under which we currently license intellectual property or technology from third parties are complex, and certain provisions in such agreements may be susceptible to multiple interpretations. The resolution of any contract interpretation disagreement that may arise could narrow what we believe to be the scope of our rights to the relevant intellectual property or technology, or increase what we believe to be our financial or other obligations under the relevant agreement, either of which could have a material adverse effect on our business, financial condition, results of operations, and prospects. Moreover, if disputes over intellectual property that we have licensed prevent or impair our ability to maintain our current licensing arrangements on commercially acceptable terms, we may be unable to successfully develop and commercialize the affected product candidates, which could have a material adverse effect on our business, financial conditions, results of operations, and prospects. In addition, we may have limited control over the maintenance and prosecution of these in-licensed patents and patent applications, or any other intellectual property that may be related to our in-licensed intellectual property. For example, we cannot be certain that such activities by any future licensors have been or will be conducted in compliance with applicable laws and regulations or will result in valid and enforceable patents and other intellectual property rights. We have limited control over the manner in which our licensors initiate an infringement proceeding against a third- party infringer of the intellectual property rights, or defend certain of the intellectual property that is licensed to us. It is possible that the licensors' infringement proceeding or defense activities may be less vigorous than had we conducted them ourselves. If we are unable to protect the confidentiality of our trade secrets, our business and competitive position would be harmed. In addition to patent protection, we rely heavily upon know- how and trade secret protection, as well as non-disclosure agreements and invention assignment agreements with our employees, consultants and third-parties, to protect our confidential and proprietary information, especially where we do not believe patent protection is appropriate or obtainable. In addition to contractual measures, we try to protect the confidential nature of our proprietary information using physical and technological security measures. Such measures may not, for example, in the case of misappropriation of a trade secret by an employee or third- party with authorized access, provide adequate protection for our proprietary information. Our security measures may not prevent an employee or consultant from misappropriating our trade secrets and providing them to a competitor, and recourse we take against such misconduct may not provide an adequate remedy to protect our interests fully. Enforcing a claim that a party illegally disclosed or misappropriated a trade secret can be difficult, expensive, and timeconsuming, and the outcome is unpredictable. In addition, trade secrets may be independently developed by others in a manner that could prevent legal recourse by us. For example, our clinical research development strategy includes the testing establishment of live tissue samples coculture of cancer cells, immune cells and our viruses. Our techniques for preserving <mark>establishing these cocultures</mark> and testing <mark>our experimental agents in </mark>these samples assays are proprietary and confidential. If one or more third parties obtain or are otherwise able to replicate these techniques, an important feature and differentiator of our elinical research development strategy will become available to potential competitors. If any of our confidential or proprietary information, such as our trade secrets, were to be disclosed or misappropriated, or if any such information was independently developed by a competitor, our competitive position could be harmed. In addition, courts outside the United States are sometimes less willing to protect trade secrets. If we choose to go to court to stop a third- party from using any of our trade secrets, we may incur substantial costs. These lawsuits may consume our time and other resources even if we are successful. Although we take steps to protect our proprietary information and trade secrets, including through contractual means with our employees and consultants, third parties may independently develop substantially equivalent proprietary information and techniques or otherwise gain access to our trade secrets or disclose our technology. Thus, we may not be able to meaningfully protect our trade secrets. It is our policy to require our employees, consultants, outside scientific collaborators, sponsored researchers and other advisors to execute confidentiality agreements upon the commencement of employment or consulting relationships with us. These agreements provide that all confidential information concerning our business or financial affairs developed or made known to the individual or entity during the course of the party's relationship with us is to be kept confidential and not disclosed to third parties except in specific circumstances. In the case of employees, the agreements provide that all inventions conceived by the individual, and which are related to our current or planned business or research and development or made during normal working hours, on our premises or using our equipment or proprietary information, are our exclusive property. In addition, we take other appropriate precautions, such as physical and technological security measures, to guard against misappropriation of our proprietary technology by third parties. We have also adopted policies and conduct training that provides guidance on our expectations, and our advice for best practices, in protecting our trade secrets. Thirdparty claims of intellectual property infringement may prevent or delay our product discovery and development efforts. Our commercial success depends in part on our ability to develop, manufacture, market and sell our product candidates and use our proprietary technologies without infringing the proprietary rights of third parties. There is a substantial amount of litigation involving patents and other intellectual property rights in the biotechnology and biopharmaceutical industries, as well as administrative proceedings for challenging patents, including interference, derivation, interpartes review, post-grant review, and reexamination proceedings before the USPTO or oppositions and other comparable proceedings in foreign jurisdictions. We may be exposed to, or threatened with, future litigation by third parties having patent or other intellectual property rights alleging that our product candidates and / or proprietary technologies infringe their intellectual property rights. Numerous U. S. and foreign issued patents and pending patent applications, which are owned by third parties, exist in the fields in which we are developing our product candidates. As the biotechnology and biopharmaceutical 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. Moreover, it is not always clear to industry participants, including us, which patents cover various types of drugs, products or their methods

of use or manufacture. Thus, because of the large number of patents issued and patent applications filed in our fields, there may be a risk that third parties may allege they have patent rights encompassing our product candidates, technologies or methods. If a third- party claims that we infringe its intellectual property rights, we may face a number of issues, including, but not limited to: • infringement and other intellectual property claims which, regardless of merit, may be expensive and time- consuming to litigate and may divert our management's attention from our core business; • substantial damages for infringement, which we may have to pay if a court decides that the product candidate or technology at issue infringes on or violates the third-party's rights, and, if the court finds that the infringement was willful, we could be ordered to pay treble damages and the patent owner' s attorneys' fees; • a court prohibiting us from developing, manufacturing, marketing or selling our product candidates, or from using our proprietary technologies, unless the third- party licenses its product rights to us, which it is not required to do; • if a license is available from a third- party, we may have to pay substantial royalties, upfront fees and other amounts, and / or grant cross-licenses to intellectual property rights for our products and any license that is available may be non-exclusive, which could result in our competitors gaining access to the same intellectual property; and • redesigning our product candidates or processes so they do not infringe, which may not be possible or may require substantial monetary expenditures and time. Some of our competitors may be able to sustain the costs of complex patent litigation more effectively than we can because they have substantially greater resources. In addition, any uncertainties resulting from the initiation and continuation of any litigation could have a material adverse effect on our ability to raise the funds necessary to continue our operations or could otherwise have a material adverse effect on our business, results of operations, financial condition and prospects. Furthermore, because of the substantial amount of discovery required in connection with intellectual property litigation or administrative proceedings, there is a risk that some of our confidential information could be compromised by disclosure. Our collaborators may assert ownership or commercial rights to inventions they develop from research we support or that we develop from our use of the tissue samples or other biological materials, which they provide to us, or otherwise arising from the collaboration. We collaborate with several institutions, universities, medical centers, physicians and researchers in scientific matters and expect to continue to enter into additional collaboration agreements. In certain cases, we do not have written agreements with these collaborators, or the written agreements we have do not cover intellectual property rights. Also, we rely on numerous third parties to provide us with tissue samples and biological materials that we use to conduct our research activities and develop our product candidates. If we cannot successfully negotiate sufficient ownership and commercial rights to any inventions that result from our use of a third- party collaborator's materials, or if disputes arise with respect to the intellectual property developed with the use of a collaborator's samples, or data developed in a collaborator's study, we may be limited in our ability to capitalize on the market potential of these inventions or developments. Third parties may assert that we are employing their proprietary technology without authorization. There may be third- party patents of which we are currently unaware with claims to compositions of matter, materials, formulations, methods of manufacture or methods for treatment that encompass the composition, use or manufacture of our product candidates. There may be currently pending patent applications of which we are currently unaware which may later result in issued patents that our product candidates or their use or manufacture may infringe. In addition, third parties may obtain patents in the future and claim that use of our technologies infringes upon these patents. If any third- party patent were held by a court of competent jurisdiction to cover our product candidates, intermediates used in the manufacture of our product candidates or our materials generally, aspects of our formulations or methods of use, 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, such a license may not be available on commercially reasonable terms or at all. 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. Even if we obtain a license, it may be non- exclusive, thereby giving our competitors access to the same technologies licensed to us. In addition, if the breadth or strength of protection provided by our patents and patent applications is threatened, it could dissuade companies from collaborating with us to license, develop or commercialize current or future product candidates. 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, would involve substantial litigation expense and would be a substantial diversion of employee resources from our business. 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 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 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. Third parties may assert that our employees or consultants have wrongfully used or disclosed confidential information, misappropriated trade secrets, or are in breach of non-competition or non-solicitation agreements with our competitors. As is common in the biotechnology and biopharmaceutical industries, we employ individuals who were previously employed at universities or other biotechnology or biopharmaceutical companies, including our competitors or potential competitors. Although no claims against us are currently pending, and although we try to ensure that our employees and consultants do not use the proprietary information or know- how of others in their work for us, we may be subject to claims that we or our employees, consultants or independent contractors have inadvertently or otherwise used or disclosed intellectual property, including trade secrets or other proprietary information, of a former employer or other third parties. We may also be subject to claims that we caused an employee to breach the terms of their non-competition or nonsolicitation agreement, or that we or these individuals have, inadvertently or otherwise, used or disclosed the alleged trade

secrets or other proprietary information of a former employer or competitor or other party. Litigation may be necessary to defend against these claims. If we fail in defending any such claims, in addition to paying monetary damages, we may lose valuable intellectual property rights or personnel. Even if we are successful in defending against such claims, litigation or other legal proceedings relating to intellectual property claims may cause us to incur significant expenses, and could distract our technical and management personnel from their normal responsibilities. In addition, there could be public announcements of the results of hearings, motions or other interim proceedings or developments, and, if securities analysts or investors perceive these results to be negative, it could have a substantial adverse effect on the price of our common stock. This type of litigation or proceeding could substantially increase our operating losses and reduce our resources available for development activities. We may not have sufficient financial or other resources to adequately conduct such litigation or proceedings. Some of our competitors may be able to sustain the costs of such litigation or proceedings more effectively than we can because of their substantially greater financial resources. Uncertainties resulting from the initiation and continuation of patent litigation or other intellectual property related proceedings could adversely affect our ability to compete in the marketplace. We may not be successful in obtaining or maintaining necessary rights to develop any future product candidates on acceptable terms. Because our programs may involve additional product candidates that may require the use of proprietary rights held by third parties, the growth of our business may 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. We may develop products containing our compounds and pre- existing biopharmaceutical compounds. 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 as necessary or important to our business operations. We may fail to obtain any of these licenses at a reasonable cost or on reasonable terms, if at all, which would harm our business. We may need to cease use of the compositions or methods covered by such third- party intellectual property rights, and may need to seek to develop alternative approaches that do not infringe on such intellectual property rights which may entail additional costs and development delays, even if we were able to develop such alternatives, which may not be feasible. 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. Additionally, we sometimes collaborate with academic institutions to accelerate our preclinical research or development under written agreements with these institutions. In certain cases, these institutions provide us with an option to negotiate a license to any of the institution's rights in technology resulting from the collaboration. Regardless of such option, we may be unable to negotiate a license within the specified timeframe or under terms that are acceptable to us. If we are unable to do so, the institution may offer the intellectual property rights to others, potentially blocking our ability to pursue our program. If we are unable to successfully obtain rights to required third-party intellectual property or to maintain the existing intellectual property rights we have, we may have to abandon development of such program and our business and financial condition could suffer. The licensing and acquisition of third-party intellectual property rights is a competitive area, and companies, which may be more established, or have greater resources than we do, may also be pursuing strategies to license or acquire third-party intellectual property rights that we may consider necessary or attractive in order to commercialize our product candidates. More established companies may have a competitive advantage over us due to their size, cash resources and greater clinical development and commercialization capabilities. There can be no assurance that we will be able to successfully complete such negotiations and ultimately acquire the rights to the intellectual property surrounding the additional product candidates that we may seek to acquire. 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 current or future licensors. To counter infringement or unauthorized use, we may be required to file infringement claims, which can be expensive and time- consuming. In addition, in an infringement proceeding, a court may decide that one or more of our patents is not valid or is unenforceable, or may refuse to stop the other party from using the technology at issue on the grounds that our patents do not cover the technology in question or for other reasons. 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. We may choose to challenge the patentability of claims in a third- party's U. S. patent by requesting that the USPTO review the patent claims in an ex- parte re- examination, inter partes review or post- grant review proceedings - proceeding . These proceedings are expensive and may consume our time or other resources. We may choose to challenge a third- party's patent in patent opposition proceedings in the European Patent Office (EPO), or other foreign patent office. The costs of these opposition proceedings could be substantial, and may consume our time or other resources. If we fail to obtain a favorable result at the USPTO, EPO or other patent office then we may be exposed to litigation by a third-party alleging that the patent may be infringed by our product candidates or proprietary technologies. In addition, because some patent applications in the United States may be maintained in secrecy until the patents are issued, patent applications in the United States and many foreign jurisdictions are typically not published until 18 months after filing, and publications in the scientific literature often lag behind actual discoveries, we cannot be certain that others have not filed patent applications for technology covered by our owned and in-licensed issued patents or our pending applications, or that we or, if applicable, a licensor were the first to invent the technology. Our competitors may have filed, and may in the future file, patent applications covering our products or technology similar to ours. Any such patent application may have priority over our owned and in-licensed patent applications or patents, which could require us to obtain rights to issued patents covering such technologies. If another party has filed a U. S. patent application on inventions similar to those owned by or in-licensed to us, we or, in the case of in-licensed technology, the licensor may have to participate in an interference or derivation proceeding declared by the USPTO to determine priority of invention in the United States. If we or one of our licensors is a party to an interference or derivation proceeding

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involving a U. S. patent application on inventions owned by or in-licensed to us, we may incur substantial costs, divert
management's time and expend other resources, even if we are successful. Interference or derivation proceedings provoked by
third parties or brought by us or declared by the USPTO may be necessary to determine the priority of inventions with respect to
our patents or patent applications or those of our licensors. An unfavorable outcome 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 or at all, or if
a non- exclusive license is offered and our competitors gain access to the same technology. Litigation or interference
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. Furthermore, because of the substantial amount of discovery required in connection with intellectual property
litigation, there is a risk that some of our confidential information could be compromised by disclosure during this type of
litigation. In addition, there could be public announcements of the results of hearings, motions or other interim proceedings or
developments. If securities analysts or investors perceive these results to be negative, it could have a substantial adverse effect
on the price of our common stock. Obtaining and maintaining our patent protection depends on compliance with various
procedural, document submission, fee payment and other requirements imposed by governmental patent agencies, and our patent
protection could be reduced or eliminated for non-compliance with these requirements. Periodic maintenance fees on any issued
patent are due to be paid to the USPTO and foreign patent agencies in several stages over the lifetime of the patent. The USPTO
and various foreign governmental patent agencies require compliance with a number of procedural, documentary, fee payment
and other provisions during the patent application process and following the issuance of a patent. While an inadvertent lapse can
in many cases be cured by payment of a late fee or by other means in accordance with the applicable rules, there are situations in
which noncompliance can result in abandonment or lapse of the patent or patent application, resulting in partial or complete loss
of patent rights in the relevant jurisdiction. Noncompliance events that could result in abandonment or lapse of a patent or patent
application include, but are not limited to, failure to respond to official actions within prescribed time limits, non-payment of
fees and failure to properly legalize and submit formal documents. In certain circumstances, even inadvertent noncompliance
events may permanently and irrevocably jeopardize patent rights. In such an event, our competitors might be able to enter the
market, which would have a material adverse effect on our business. Any patents, if issued Issued patents covering our product
candidates could be found invalid or unenforceable if challenged in court or the USPTO or could expire before the first
product achieves marketing approval. If we or one of our licensors 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. In patent litigation in the United States, defendant counterclaims
alleging invalidity and / or unenforceability are commonplace, and there are numerous grounds upon which a third- party can
assert invalidity or unenforceability of a patent. Third parties may also raise similar claims before administrative bodies in the
United States or abroad, even outside the context of litigation. Such mechanisms include re- examination, inter partes review,
post grant review, and equivalent proceedings in foreign jurisdictions (e. g., opposition proceedings). 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. With respect to the validity question, for example,
we cannot be certain that there is no invalidating prior art, of which we, our patent counsel and the patent examiner were
unaware during prosecution. If a defendant were to prevail on a legal assertion of invalidity and or unenforceability, or if we
are otherwise unable to adequately protect our rights, 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 and our ability to
commercialize or license our technology and product candidates. Likewise, we own a U. S. patent relating to our CAN-2409
product candidate that expires in 2034, and our in-licensed U. S. and non- U. S. patents relating to our HSV- based product
candidates, licensed from MGB and from Periphagen are expected to expire in 2036 and in 2037, respectively, without taking
into account any possible patent term extensions. Our earliest patents may expire before, or soon after, our first product achieves
marketing approval in the United States or foreign jurisdictions. Upon the expiration of our current patents, we may lose the
right to exclude others from practicing these inventions. The expiration of these patents could also have a similar material
adverse effect on our business, results of operations, financial condition and prospects. We own and in-license pending patent
applications relating to our proprietary technologies or our product candidates that if issued as patents are expected to expire
from 2034 through 2042 2044, without taking into account any possible patent term adjustments or extensions. However, we
cannot be assured that the USPTO or relevant foreign patent offices will grant any of these patent applications or that the term
<mark>of the patent will be sufficient to protect the proprietary technologies or product candidates</mark> . We have limited foreign
intellectual property rights and may not be able to protect our intellectual property rights throughout the world. We have limited
intellectual property rights outside the United States. Filing, prosecuting and defending patents on product candidates in all
countries throughout the world would be prohibitively expensive, and our intellectual property rights in some countries outside
the United States can be less extensive than those in the United States. In addition, the laws of some foreign countries do not
protect intellectual property rights to the same extent as federal and state laws in the United States. Consequently, we may not be
able to prevent third parties from practicing our inventions in all countries outside the United States, or from selling or
importing products made using our inventions in and into the United States or other jurisdictions. Competitors may use our
technologies in jurisdictions where we have not obtained patent protection to develop their own products and, further, may
export otherwise infringing products to territories where we have patent protection but where enforcement is not as strong as that
in the United States. These products may compete with our products in jurisdictions where we do not have any issued patents
and our patent claims or other intellectual property rights may not be effective or sufficient to prevent them from competing.
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Many companies have encountered significant problems in protecting and defending intellectual property rights in foreign jurisdictions. The legal systems of certain countries, particularly certain developing countries, do not favor the enforcement of, and may require a compulsory license to, patents, trade secrets and other intellectual property protection, particularly those relating to biopharmaceutical products, which could make it difficult for us to stop the infringement of our patents or marketing of competing products against third parties in violation of our proprietary rights generally. The initiation of proceedings by third parties to challenge the scope or validity of our patent rights in foreign jurisdictions could result in substantial cost and divert our efforts and attention from other aspects of our business. Proceedings to enforce our patent rights in foreign jurisdictions could result in substantial costs and divert our efforts and attention from other aspects of our business, could put our patents at risk of being invalidated or interpreted narrowly and our patent applications at risk of not issuing and could provoke third parties to assert claims against us. We may not prevail in any lawsuits that we initiate and the damages or other remedies awarded, if any, may not be commercially meaningful. Accordingly, our efforts to enforce our intellectual property rights around the world may be inadequate to obtain a significant commercial advantage from the intellectual property that we develop or license. Patent terms may be inadequate to protect our competitive position on our product candidates for an adequate amount of time. Patents have a limited lifespan. In the United States, if all maintenance fees are timely paid, the natural expiration of a patent is generally 20 years from its earliest U. S. non-provisional filing date. Various extensions such as patent term adjustments and / or extensions, may be available, but the life of a patent, and the protection it affords, is limited. Even if patents covering our product candidates are obtained, once the patent life has expired, we may be open to competition from competitive products. Given the amount of time required for the development, testing and regulatory review of new product candidates, patents protecting such candidates might expire before or shortly after such candidates are commercialized. As a result, our owned and licensed patent portfolio may not provide us with sufficient rights to exclude others from commercializing products similar or identical to ours. If we do not obtain patent term extension and data exclusivity for any product candidates we may develop, our business may be materially harmed. Depending upon the timing, duration and specifics of any FDA marketing approval of any product candidates we may develop, one or more of our U. S. patents may be eligible for limited patent term extension under the Drug Price Competition and Patent Term Restoration Action of 1984 Hatch- Waxman Amendments. The Hatch- Waxman Amendments permit a patent extension term of up to five years as compensation for patent term lost during the FDA regulatory review process. A patent term extension cannot extend the remaining term of a patent beyond a total of 14 years from the date of product approval, only one patent may be extended and only those claims covering the approved drug, a method for using it, or a method for manufacturing it may be extended. However, we may not be granted an extension because of, for example, failing to exercise due diligence during the testing phase or regulatory review process, failing to apply within applicable deadlines, failing to apply prior to expiration of relevant patents, or otherwise failing to satisfy applicable requirements. Moreover, the applicable time period or the scope of patent protection afforded could be less than we request. If we are unable to obtain patent term extension or the term of any such extension is less than we request, our competitors may obtain approval of competing products following our patent expiration, and our business, financial condition, results of operations, and prospects could be materially harmed. If our trademarks and trade names are not adequately protected, then we may not be able to build name recognition in our markets of interest and our business may be adversely affected. Our trademarks or trade names may be challenged, infringed, circumvented or declared generic or determined to be infringing on other marks. We may not be able to protect our rights to these trademarks and trade names or may be forced to stop using these names, which we need for name recognition by potential partners or customers in our markets of interest. If we are unable to establish name recognition based on our trademarks and trade names, we may not be able to compete effectively and our business may be adversely affected. Risks Related to Our Common Stock The price of our common stock may be volatile and fluctuate substantially, which could result in substantial losses to stockholders. Our stock price is likely to continue to be volatile. The stock market in general and the market for biopharmaceutical companies in particular have experienced extreme volatility that has often been unrelated to the operating performance of particular companies. As a result of this volatility, you may not be able to sell your common stock at or above the price at which it was purchased. The market price for our common stock may be influenced by many factors, including: • the success of competitive products or technologies; • results of clinical trials of our product candidates or those of our competitors; • commencement or termination of collaboration, licensing or similar arrangements for our development programs; · announcements by our competitors of significant acquisitions, strategic partnerships, joint ventures, collaborations or capital commitments; • regulatory or legal developments in the United States and other countries; • developments or disputes concerning patent applications, issued patents or other proprietary rights; • the recruitment or departure of key personnel; • the level of expenses related to any of our product candidates or clinical development programs; • the results of our efforts to discover, develop, acquire or in-license additional product candidates or products; • developments or setbacks related to drugs that are co- administered with any of our product candidates, such as checkpoint inhibitors; • actual or anticipated changes in estimates as to financial results, development timelines or recommendations by securities analysts; • variations in our financial results or those of companies that are perceived to be similar to us; • expiration of market stand- off or lock- up agreements; • changes in the structure of healthcare payment systems; • market conditions in the pharmaceutical and biotechnology sectors; • general economic, industry and market conditions and overall fluctuations in the financial markets in the United States and abroad; and • the other factors described in this "Risk Factors" section. In addition, Our failure to maintain compliance with Nasdaq's continued listing requirements could result in the delisting of our common stock. Our common stock is currently listed for trading prices on The Nasdaq Global Market (Nasdaq). We must satisfy the continued listing requirements of Nasdaq to maintain the listing of our common stock on Nasdaq. On November 15, 2023, we received a letter from the Listing Qualifications Department (the Staff) of The Nasdaq Stock Market LLC notifying us that, for our and other -- the biopharmaceutical companies' previous 30 consecutive business days, the closing bid price for our common stock have had been highly volatile below the minimum \$ 1,00 per share required for continued listing on Nasdaq under

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Nasdaq Listing Rule 5450 (a) (1) (the Bid Price Requirement). On December 28, 2023, the Staff notified us that, as a
result of December 28, 2023 the COVID-19 pandemic. As a result, we had regained compliance with the Bid Price
Requirement and that the matter was closed. If we are deficient in maintaining the necessary listing requirements, our
<mark>common stock</mark> may <del>face difficulties raising <mark>be delisted. If our common stock is delisted, an active trading market for our</del></mark>
common stock may not be sustained and the market price of our common stock could decline. Delisting of our common
stock could adversely affect our ability to raise additional capital through the public or private sales—sale of equity
securities, would significantly affect the ability of investors to trade our securities and would negatively affect the value
and liquidity of our common stock and any such sales may be on unfavorable terms. Delisting could also have The COVID-
19 outbreak continues to rapidly evolve. The extent to which the other outbreak further impacts our negative results, including
the potential loss of confidence by employees, the loss of institutional investor interest and fewer business, including our
preclinical studies and clinical trials, results of operations and financial condition will depend on future developments-
development opportunities which are highly uncertain and cannot be predicted with confidence. Such factors include, but are
not limited to, the duration of the outbreak, the impact of variants, travel restrictions, quarantines, shelter-in-place orders and
social distancing, business closures or business disruptions, the adoption and effectiveness of vaccines and vaccine distribution
efforts, and the effectiveness of other actions taken in the United States and other countries to contain and treat the disease.
Raising additional capital through the sale of a substantial number of shares of our common stock, or the perception that sales of
a substantial number of shares of our common stock might occur, may cause dilution to our stockholders, could cause our stock
price to decline and could restrict our operations or require us to relinquish rights to our technologies or current or future product
candidates. Until such time, if ever, as we can generate substantial product revenues, we expect to finance our cash needs
through a combination of private and public equity offerings, debt financings, collaborations, strategic alliances and marketing,
distribution or licensing arrangements. We do not currently have any committed external source of funds. To the extent that we
raise additional capital through the sale of common stock or securities convertible or exchangeable into common stock, your
ownership interest will be diluted, and the terms of these securities may include liquidation or other preferences that may
materially adversely affect your rights as a common stockholder. In August 2022, we filed a registration statement on Form S-3
(as amended, the Shelf) pursuant to which we may issue up to $75.0 million in shares of common stock in sales deemed to be
"at-the-market offerings" (the ATM Program) as defined by the Securities Act of 1933, as amended (Securities Act), and up
to $ 200. 0 million in shares of our common stock, preferred stock, debt securities, warrants and / or units . As of March 21,
2024, we have sold and issued 109, 485 shares of common stock under the ATM Program, with total net proceeds of $ 0.
2 million. Any sale or issuance of securities pursuant to this registration statement or otherwise may result in dilution to our
stockholders and may cause our stock price to decline. Due to the SEC's "baby shelf rules," which prohibit companies with a
public float of less than $ 75. 0 million from issuing securities under a shelf registration statement in excess of one third of such
company's public float in a 12- month period, we are currently only able to issue a limited number of shares which aggregate to
no more than one-third of our public float using our Shelf. Although alternative public and private transaction structures may be
available, these may require additional time and cost, may impose operational restrictions on us, and may not be available on
attractive terms. Debt financing, if available, would increase our fixed payment obligations and may involve agreements that
include covenants limiting or restricting our ability to take specific actions, such as incurring additional debt, acquiring, selling
or licensing intellectual property rights, making capital expenditures, declaring dividends, or other operating restrictions that
could adversely impact our ability to conduct our business. We could also be required to meet certain milestones in connection
with debt financing and the failure to achieve such milestones by certain dates may force us to relinquish rights to some of our
technologies or product candidates or otherwise agree to terms unfavorable to us which could have a material adverse effect on
our business, operating results and prospects. If we raise funds through additional collaborations, strategic alliances or
marketing, distribution or licensing arrangements with third parties, we may have to relinquish valuable rights to our intellectual
property, future revenue streams, research programs or current or future product candidates or to grant licenses on terms that
may not be favorable to us. If we are unable to raise additional funds through equity or debt financings when needed, we may be
required to delay, scale back or discontinue the development and commercialization of one or more of our product candidates,
delay our pursuit of potential in-licenses or acquisitions or grant rights to develop and market current or future product
candidates that we would otherwise prefer to develop and market ourselves. We are an "emerging growth company" as defined
in the JOBS Act and a "smaller reporting company" as defined in the Securities Exchange Act of 1934, as amended (the
Exchange Act), and will be able to avail ourselves of reduced disclosure requirements applicable to emerging growth companies
and smaller reporting companies, which could make our common stock less attractive to investors and adversely affect the
market price of our common stock. We are an "emerging growth company," as defined in the Jumpstart Our Business Startups
Act of 2012 (the JOBS Act). We will remain an emerging growth company until the earlier of (i) the last day of the fiscal year in
which we have total annual gross revenues of $1.235 billion or more; (ii) December 26, 2026; (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, which means the market value of our
common stock that is held by non- affiliates exceeds $ 700 million as of the prior June 30th. For so long as we remain an
emerging growth company, we are permitted and intend to rely on exemptions from certain disclosure requirements that are
applicable to other public companies that are not emerging growth companies. These exemptions include: • not being required to
comply with the auditor attestation requirements of Section 404 of the SOX Act (Section 404); • not being required to comply
with any requirement that may be adopted by the Public Company Accounting Oversight Board regarding mandatory audit firm
rotation or a supplement to the auditor's report providing additional information about the audit and the financial statements; •
providing only two years of audited financial statements in addition to any required unaudited interim financial statements and a
correspondingly reduced "Management's Discussion and Analysis of Financial Condition and Results of Operations"
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disclosure; • reduced disclosure obligations regarding executive compensation; and • exemptions from the requirements of holding a nonbinding advisory vote on executive compensation and stockholder approval of any golden parachute payments not previously approved. We may choose to take advantage of some, but not all, of the available exemptions. We have taken advantage of reduced reporting burdens in this Annual Report on Form 10- K. In particular, we have provided only two years of audited financial statements and a correspondingly reduced "Management's Discussion and Analysis of Financial Condition and Results of Operations" disclosure, and we have not included all of the executive compensation information that would be required if we were not an emerging growth company. We cannot predict whether investors will find our common stock less attractive if we rely on these exemptions. If some investors find our common stock less attractive as a result, there may be a less active trading market for our common stock and our stock price may be more volatile. In addition, the JOBS Act provides that an emerging growth company can take advantage of an extended transition period for complying with new or revised accounting standards. This allows an emerging growth company to delay the adoption of certain accounting standards until those standards would otherwise apply to private companies. We have elected to use the extended transition period for new or revised accounting standards during the period in which we remain an emerging growth company; however, we may adopt certain new or revised accounting standards early. We are also a "smaller reporting company" as defined in the Exchange Act. We may continue to be a smaller reporting company even after we no longer qualify an emerging growth company. We may take advantage of certain of the scaled disclosures available to smaller reporting companies until the fiscal year following the determination that our voting and non-voting common stock held by non-affiliates is more than \$ 250 million measured on the last business day of our second fiscal quarter, or our annual revenues are more than \$ 100 million during the most recently completed fiscal year and our voting and non-voting common stock held by non-affiliates is more than \$ 700 million measured on the last business day of our second fiscal quarter. Although we are still evaluating the JOBS Act, we currently intend to take advantage of some, but not all, of the reduced regulatory and reporting requirements that will be available to us so long as we qualify as an "emerging growth company" and "smaller reporting company." We have elected to avail ourselves of this exemption and, therefore, we are not subject to the same new or revised accounting standards as other public companies that are not emerging growth companies or smaller reporting company. As a result, changes in rules of U. S. GAAP or their interpretation, the adoption of new guidance or the application of existing guidance to changes in our business could significantly affect our financial position and results of operations. In addition, our independent registered public accounting firm will not be required to provide an attestation report on the effectiveness of our internal control over financial reporting so long as we qualify as an "emerging growth company," which may increase the risk that material weaknesses or significant deficiencies in our internal control over financial reporting go undetected. Likewise, so long as we qualify as a "smaller reporting company" or an "emerging growth company," we may elect not to provide you with certain information, including certain financial information and certain information regarding compensation of our executive officers, that we would otherwise have been required to provide in filings we make with the SEC, which may make it more difficult for investors and securities analysts to evaluate our company. We cannot predict if investors will find our common stock less attractive because we may rely on these exemptions. If some investors find our common stock less attractive as a result, there may be a less active trading market for our common stock, and our stock price may be more volatile and may decline. We will incur increased costs as a result of operating as a public company, and our management will be required to devote substantial time to new compliance initiatives and corporate governance practices. As a public company, and particularly after we are no longer an "emerging growth company," we incur significant legal, accounting and other expenses that we did not incur as a private company. We are subject to the reporting requirements of the Exchange Act, which will require, among other things, that we file with the SEC annual, quarterly and current reports with respect to our business and financial condition. In addition, the SOX Act and rules subsequently implemented by the SEC and Nasdag have imposed various requirements on public companies, including establishment and maintenance of effective disclosure and financial controls and corporate governance practices. Our management and other personnel will need to devote a substantial amount of time to these compliance initiatives. Further, in July 2010, the Dodd- Frank Wall Street Reform and Consumer Protection Act (the Dodd- Frank Act), was enacted. There are significant corporate governance and executive compensation related provisions in the Dodd-Frank Act that require the SEC to adopt additional rules and regulations in these areas, such as "say on pay" and proxy access. Emerging growth companies may implement many of these requirements over a longer period and up to five years from the pricing of an initial public offering. We intend to take advantage of these extended transition periods but cannot guarantee that we will not be required to implement these requirements sooner than budgeted or planned and thereby incur unexpected expenses. Stockholder activism, the current political environment and the current high level of government intervention and regulatory reform may lead to substantial new regulations and disclosure obligations, which may lead to additional compliance costs and impact the manner in which we operate our business in ways we cannot currently anticipate. We expect the rules and regulations applicable to public companies to substantially increase our legal and financial compliance costs and to make some activities more time- consuming and costly. If these requirements divert the attention of our management and personnel from other business concerns, they could have a material adverse effect on our business, financial condition and results of operations. The increased costs will decrease our net income or increase our net loss and may require us to reduce costs in other areas of our business or increase the prices of our products or services. For example, we expect these rules and regulations to make it more difficult and more expensive for us to maintain director and officer liability insurance. We cannot predict or estimate the amount or timing of additional costs we may incur to respond to these requirements. The impact of these requirements could also make it more difficult for us to attract and retain qualified persons to serve on our board of directors, our board committees or as executive officers. Pursuant to Section 404, we are required to furnish a report by our management on our internal control over financial reporting, including an attestation report on internal control over financial reporting issued by our independent registered public accounting firm. However, while we remain an emerging growth company, we will not be required to include an attestation report on internal

control over financial reporting issued by our independent registered public accounting firm. To achieve compliance with Section 404 within the prescribed period, we will be engaged in a process to document and evaluate our internal control over financial reporting, which is both costly and challenging. In this regard, we will need to continue to dedicate internal resources, potentially engage outside consultants and adopt a detailed work plan to assess and document the adequacy of internal control over financial reporting, continue steps to improve control processes as appropriate, validate through testing that controls are functioning as documented and implement a continuous reporting and improvement process for internal control over financial reporting. Despite our efforts, there is a risk that neither we nor our independent registered public accounting firm will be able to conclude within the prescribed timeframe that our internal control over financial reporting is effective as required by Section 404. This could result in an adverse reaction in the financial markets due to a loss of confidence in the reliability of our financial statements. In additional, if we are not able to continue to meet these requirements, we may not be able to remain listed on Nasdaq. Sales of a substantial number of shares of our common stock by our existing stockholders in the public market could cause our stock price to fall. If our existing stockholders sell, or indicate an intention to sell, substantial amounts of our common stock in the public market, the trading price of our common stock could decline. As of March 15-21, 2023 2024, we had a total of 28-29, 919-347, 810-468 shares of common stock outstanding. In addition, shares of common stock that are reserved for future issuance under our 2021 Plan and our 2021 Employee Stock Purchase Plan will become eligible for sale in the public market to the extent permitted by the provisions of various vesting schedules, Rule 144 and Rule 701 under the Securities Act. If these additional shares of common stock are sold, or if it is perceived that they will be sold, in the public market, the trading price of our common stock could decline. The holders of 8, 884, 661 shares of our common stock are entitled to rights with respect to the registration of their shares under the Securities Act. Registration of these shares under the Securities Act would result in such shares becoming freely tradable without restriction under the Securities Act, except for shares held by affiliates, as defined in Rule 144 under the Securities Act. Any sales of securities by these stockholders could have a material adverse effect on the trading price of our common stock. Because we do not anticipate paying any cash dividends on our capital stock in the foreseeable future, capital appreciation, if any, will be your sole source of gain. We have never declared or paid cash dividends on our capital stock. We currently intend to retain all of our future earnings, if any, to finance the growth and development of our business. In addition, the terms of any future debt agreements may preclude us from paying dividends. As a result, capital appreciation, if any, of our common stock will be your sole source of gain for the foreseeable future. Our executive officers, directors, principal stockholders and their affiliates exercise significant influence over our company, which will limit your ability to influence corporate matters and could delay or prevent a change in corporate control. The existing holdings of our executive officers, directors, principal stockholders and their affiliates represent beneficial ownership, in the aggregate, of approximately 59-60. 9-6 % of our outstanding common stock with Estuardo Aguilar-Cordova and Laura Aguilar (together, both directly and indirectly) beneficially owning approximately 21. 5-1 % of our outstanding common stock, and with entities and persons affiliated with PBM Capital Group, LLC (PBM Capital), beneficially owning approximately 29. 41% of our outstanding common stock . In addition, Diem Nguyen, who is a member of our Board of Directors, is currently Chief Executive Officer of Xalud Therapeuties, Inc., which is majority- owned by PBM Capital. As a result, these stockholders, if they act together, will be able to influence our management and affairs and the outcome of matters submitted to our stockholders for approval, including the election of directors and any merger, consolidation or sale of all or substantially all of our assets. The concentration of voting power among these stockholders may have an adverse effect on the price of our common stock. In addition, this concentration of ownership might adversely affect the market price of our common stock by: • delaying, deferring or preventing a change of control of us; • impeding a merger, consolidation, takeover or other business combination involving us; or • discouraging a potential acquirer from making a tender offer or otherwise attempting to obtain control of us. Antitakeover 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. Some of these provisions include: • a board of directors divided into three classes serving staggered threeyear terms, such that not all members of the board will be elected at one time; • a prohibition on stockholder action through written consent, which requires that all stockholder actions be taken at a meeting of our stockholders; • a requirement that special meetings of stockholders be called only by the board of directors acting pursuant to a resolution approved by the affirmative vote of a majority of the directors then in office; • advance notice requirements for stockholder proposals and nominations for election to our board of directors; • a requirement that no member of our board of directors may be removed from office by our stockholders except for cause and, in addition to any other vote required by law, upon the approval of not less than two-thirds of all outstanding shares of our voting stock then entitled to vote in the election of directors; • a requirement of approval of not less than two-thirds of all outstanding shares of our voting stock to amend any bylaws by stockholder action or to amend specific provisions of our certificate of incorporation; and • the authority of the board of directors to issue preferred stock on terms determined by the board of directors without stockholder approval and which preferred stock may include rights superior to the rights of the holders of common stock. In addition, because we are incorporated in Delaware, we are governed by the provisions of Section 203 of the Delaware General Corporate 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 thencurrent 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 bylaws designate certain courts as the sole and exclusive forum for certain types of actions and proceedings that may be initiated by 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 bylaws provide that, unless we consent in writing to an alternative forum, the Court of Chancery of the State of Delaware will be the sole and exclusive forum for any state law claim for (i) any derivative action or proceeding brought on our behalf, (ii) any action asserting a claim of breach of fiduciary duty owed by any of our directors, officers, and employees to us or our stockholders, (iii) any action asserting a claim arising pursuant to any provision of the Delaware General Corporation Law, our amended and restated certificate of incorporation or our amended and restated bylaws or (iv) any action asserting a claim that is governed by the internal affairs doctrine, in each case subject to the Court of Chancery having personal jurisdiction over the indispensable parties named as defendants therein, or the Delaware Forum Provision. The Delaware Forum Provision does not apply to any causes of action arising under the Securities Act or the Exchange Act. Our amended and restated bylaws further provide that, unless we consent in writing to the selection of an alternative forum, the United States District Court for the District of Massachusetts shall be the sole and exclusive forum for resolving any complaint asserting a cause of action arising under the Securities Act, or the Federal Forum Provision, as our principal office is located in Needham, Massachusetts. In addition, our amended and restated bylaws provide that any person or entity purchasing or otherwise acquiring any interest in shares of our common stock is deemed to have notice of and consented to the foregoing provisions; provided, however, that stockholders cannot and will not be deemed to have waived our compliance with the federal securities laws and the rules and regulations thereunder. The Delaware Forum Provision and the Federal Forum Provision in our amended and restated bylaws may impose additional litigation costs on stockholders in pursuing any such claims, particularly if the stockholders do not reside in or near the State of Delaware or the Commonwealth of Massachusetts. Additionally, the forum selection clauses in our amended and restated bylaws may limit our stockholders' ability to bring a claim in a forum that they find favorable for disputes with us or our directors, officers or employees, which may discourage such lawsuits against us and our directors, officers and employees even though an action, if successful, might benefit our stockholders. In addition, while the Delaware Supreme Court ruled in March 2020 that federal forum selection provisions purporting to require claims under the Securities Act be brought in federal court were "facially valid" under Delaware law, there is uncertainty as to whether other courts will enforce our Federal Forum Provision. If the Federal Forum Provision is found to be unenforceable, we may incur additional costs associated with resolving such matters. The Federal Forum Provision may also impose additional litigation costs on stockholders who assert that the provision is not enforceable or invalid. The Court of Chancery of the State of Delaware and the United States District Court for the District of Massachusetts may also reach different judgments or results than would other courts, including courts where a stockholder considering an action may be located or would otherwise choose to bring the action, and such judgments may be more or less favorable to us than our stockholders. If securities analysts do not publish research or reports about our business or if they publish negative evaluations of our stock, the price of our stock could decline. The trading market for our common stock relies in part on the research and reports that industry or financial analysts publish about us or our business. We may never obtain research coverage by industry or financial analysts. If no or few analysts commence coverage of us, the trading price of our stock would likely decrease. Even if we do obtain analyst coverage, if one or more of the analysts covering our business downgrade their evaluations of our stock, the price of our stock could decline. If one or more of these analysts cease to cover our stock, we could lose visibility in the market for our stock, which in turn could cause our stock price to decline. We may be subject to securities litigation, which is expensive and could divert management's attention. The market price of our common stock may be volatile. The stock market in general, and Nasdag 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. In particular, the trading prices for pharmaceutical, biopharmaceutical and biotechnology companies were have been highly volatile as a result of the COVID- 19 pandemic and may be volatile as a result of a similar public health crisis in the future. In the past, companies that have experienced volatility in the market price of their stock have been subject to securities class action litigation. We may be the target of this type of litigation in the future. Securities litigation against us could result in substantial costs and divert our management's attention from other business concerns, which could seriously harm our business. The number of shares of our common stock outstanding may increase substantially as a result of our November 2018 issuance of warrants to purchase up to an aggregate of 7, 344, 968 shares of common stock. In connection with the November 13, 2018 issuance of Series B convertible preferred stock (the Series B Preferred), we issued to the purchaser of the Series B Preferred, warrants to purchase 3, 672, 484 shares of common stock for \$ 6.81 per share (the Series B Warrants) which were and remain fully exercisable upon issuance. The Series B Warrants contain provisions allowing cashless exercise. In addition, we issued to the same stockholder additional five-year warrants for the purchase of 3, 672, 484 shares of common stock for \$ 6.81 per share (the Conditional Series B Warrants), which become exercisable in the event that we complete a future financing that meets certain financial milestones or achieves certain share prices as follows: • 918, 121 shares vest upon (1) a financing event effected through the sale of our equity securities to third parties resulting in at least \$ 20, 000, 000 in gross proceeds with a per share price of \$ 12.47, or (2) an average market price (determined over a consecutive 10day period) of \$ 12. 47 per share; • an additional 918, 121 shares vest upon (1) a financing event with a price per share of \$ 13. 20, or (2) an average market price (determined over a consecutive 10- day period) of, \$13.20 per share; • an additional 918, 121 shares vest upon (1) a financing event with a per share price of \$ 13. 94, or (2) an average market price (determined over a consecutive 10- day period) of, \$ 13. 94 per share; and • an additional 918, 121 shares vest upon (1) a financing event with a per share price of \$ 14. 68, or (2) an average market price (determined over a consecutive 10- day period) of, \$ 14. 68 per share. On June 24, 2021, our board of directors approved, and on July 14, 2021, our stockholders approved, effective upon the closing of the IPO, an amendment to the terms of the Series B Warrants and the Conditional Series B Warrants to extend the expiration date from November 2023 to November 2025. In addition, the exercise period for the Conditional Series B Warrants was

amended such that in the event the future financing milestones or certain share price targets described above are achieved, the Conditional Series B Warrants can only be exercised in conjunction with the sale of the company, on a cash or cashless exercise basis, or otherwise in November 2025 through a cashless exercise. We recorded the Series B Warrants as a component of stockholder's equity at the time of issuance at their estimated fair value of \$ 2.1 million and recorded the Conditional Series B Warrants as a liability on the consolidated balance sheet because the number of shares used to calculate the settlement is not a fixed number of shares. The Conditional Series B Warrants are remeasured to their fair value at each reporting date with changes in the fair value recognized as a component of other income (expense), net in the consolidated statements of operations. We will continue to recognize changes in the fair value of the Conditional Series B Warrants until each Conditional Series B Warrant is exercised, expires or qualifies for equity classification. The exercise of these warrants in full, assuming vesting in full of the Conditional Series B Warrants and no net exercise, would result in an additional 7, 344, 968 shares of common stock outstanding, resulting in substantial dilution to stockholders who hold our common stock. In addition, if the holders of these warrants, including PBM Capital, were to exercise such warrants in full, these holders could then have significant influence over the outcome of any stockholder vote, including the election of directors and the approval of mergers or other business combination transactions.