## **Legend:** New Text Removed Text Unchanged Text Moved Text Section

Investing in our common stock involves a high degree of risk. You should carefully consider the risks described below, as well as the other information in this Annual Report, including our consolidated financial statements and the related notes and the section titled "Management's Discussion and Analysis of Financial Condition and Results of Operations" in this Annual Report, before deciding whether to invest in our common stock. The occurrence of any of the events or developments described below could harm our business, financial condition, results of operations and prospects. In such an event, the market price of our common stock could decline, and you may lose all or part of your investment. Additional risks and uncertainties not presently known to us or that we currently deem immaterial also may impair our business operations and the market price of our common stock. Summary Risk Factor SUMMARY OF RISKS • Our business is subject to numerous risks and uncertainties that you should consider before investing in our securities. These risks are described more fully below in Item 1. A. These risks include, but are not limited to, the following: • We are an early- stage multi- omic and synthetic biology technology company with a history of net losses, which we expect to continue, and we may not be able to generate meaningful revenues or achieve and sustain profitability in the future; • we have a limited operating history, which may make it difficult to evaluate the prospects for our future viability and predict our future performance; • our operating results may fluctuate significantly in the future, which makes our future operating results difficult to predict and could cause our operating results to fall below expectations or any guidance we may provide; • we will likely need to raise additional capital to fund our continuing operations, which may be unavailable to us on acceptable terms or at all or may cause dilution or place significant restrictions on our ability to operate as a going concern on acceptable terms. Our 2022 Loan Agreements may limit or our at-flexibility in financing and operating our business and may adversely affect our business, financial condition and results of operations; • our management has identified a material weakness in our internal controls; • sales of shares of our common stock underlying the Redeemable Convertible Preferred Stock and Warrants issued in our recent private placement may cause the market price of our shares to decline; • we have defaulted under our 2022 Loan Agreements with MidCap and there is continued risk of additional defaults under the 2022 Loan Agreements. The remaining balance of the 2022 Loan Agreements continues to be governed by restrictive covenants that limit our operations and allows MidCap to all call our loans if there are additional events of default. Our inability to fulfill these debt obligations could adversely affect working capital needs and financial condition. Further, our 2022 Loan Agreements may limit our flexibility in financing and operating our business, which may adversely affect our business, financial condition and results of operation; • the holders of Redeemable Convertible Preferred Stock have rights, preferences and privileges that are not held by, and are preferential to, the rights of our common stockholders; • our directors, officers and principal stockholders have significant voting power and may take actions that may not be in the best interests of our other stockholders; • our independent registered public accounting firm's report contains an explanatory paragraph that expresses substantial doubt about our ability to continue as a "going concern -"; • adverse developments affecting the financial services industry, including events or concerns involving liquidity, defaults or non-performance by financial institutions, could adversely affect our business, financial condition or results of operations; • we may not be able to achieve or maintain satisfactory pricing and margins for our products; • if we fail to timely introduce compelling new products, our revenues and our prospects could be harmed; • the size of the markets for our products may be smaller than estimated, and new market opportunities may not develop as quickly as we expect, or at all, thus limiting our ability to successfully meet our anticipated revenue projections; • we have limited experience in sales and marketing of our products. If we are unable to expand our sales, marketing distribution and customer service and support capabilities, we may not be successful in commercialiing our current and future products; • we <del>plan to begin began</del> manufacturing <mark>our BioXp products and</mark> certain <del>of materials</del> used in our BioXp products in- house in 2023. We have limited experience manufacturing our products and if we directly or indirectly encounter problems manufacturing our products or materials, our business and financial results could suffer; • we currently rely on a single contract manufacturer to manufacture and supply our instruments and single source suppliers for certain components of our instruments and raw materials. If this manufacturer or these suppliers should fail or not perform satisfactorily, our ability to commercialize and supply our products would be adversely affected; and • if we are unable to obtain and maintain sufficient intellectual property protection for our products and technology, or if the scope of the intellectual property protection obtained is not sufficiently broad, our competitors could develop and commercialize products similar or identical to ours, and our ability to successfully commercialize our products and build a strong brand identity may be impaired. Risks Related to Our Business We are an early- stage multi- omic and synthetic biology technology company with a history of net losses, which we expect to continue, and we may not be able to generate meaningful revenues or achieve and sustain profitability in the future. We are an early-stage multi-omic and synthetic biology technology company, and we have incurred significant losses since separating from Synthetic Genomics, Inc. (SGI) and beginning to operate as a stand- alone entity in March 2019, and expect to continue incurring losses in the future as we manufacture and commercialize our products and materials, including our BioXp systems, continue to enhance and develop our products, and implement our business <mark>plans and strategies</mark> . We incurred a net loss of \$ <del>48-</del>47 . <del>5-7</del> million for the year ended December 31, <del>2022-</del>2023 . As of primarily due to the substantial investments we have made to develop, manufacture, commercialize and market our technology and products. Over the next several years, we expect to continue to devote a significant portion of our resources towards the

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continued development , manufacture and commercialization of our synthetic biology products. These efforts may prove more
costly than we currently anticipate. Additionally In addition, as a public company, we will incur significant legal may
encounter unexpected development delays , accounting <mark>unforseen expenses , administrative operating delays , insurance</mark>
and declines in revenue or other expenses unknown factors that may result in losses in future periods we did not incur as a
private company. Accordingly, we cannot assure you that we will achieve profitability in the future or that, if we do become
profitable, we will remain profitable. We have a limited operating history, which may make it difficult to evaluate the prospects
for our future viability and predict our future performance. Our prospects must be considered in light of the uncertainties, risks,
expenses, and difficulties frequently encountered by companies in their early stages of operations. For example, our
management team has had a limited time working together and many of our key employees are new to our company. Predictions
about our future success or viability are highly uncertain and may not be as accurate as they could be if we had a longer
operating history or a longer history of successfully developing and commercializing products. In addition, as a business with a
limited operating history, we may encounter unforeseen expenses, difficulties, complications, delays and other known and
unknown obstacles. We have encountered in the past, and will encounter in the future, risks and uncertainties frequently
experienced by growing companies with limited operating histories in emerging and rapidly changing industries. If our
assumptions regarding these risks and uncertainties, which we use to plan and operate our business, are incorrect or change, or if
we do not address these risks successfully, our results of operations could differ materially from our expectations, and our
business, financial condition and results of operations could be adversely affected. Our operating results may fluctuate
significantly in the future, which makes our future operating results difficult to predict and could cause our operating results to
fall below expectations or any guidance we may provide. Our quarterly and annual operating results have and may continue to
fluctuate significantly, which makes it difficult for us to predict our future operating results. These fluctuations have occurred
and may occur due to a variety of factors, many of which are outside of our control, including, but not limited to: • the level of
demand for our commercialized products, which may vary significantly from period to period; • our ability to drive adoption of
our products in our target markets and our ability to expand into any future target markets, including internationally; • the prices
at which we will be able to sell our products; * the volume and mix of our sales between our BioXp systems, BioXp kits,
benchtop reagents and other products, or changes in the manufacturing or sales costs related to our products; • the length of time
of the sales cycle for purchases of, or royalties on, our products, including lead time needed to procure critical raw materials
from suppliers and finished goods from our third- party contract suppliers and manufacturers; • the extent to which we succeed
in developing, commercializing and supporting new products; • our ability to obtain necessary export licenses for our products
in certain countries and territories; potential shortages, or increases in costs, of our product components or raw materials for
existing and new products, or other disruptions to our supply chain; • the timing and cost of, and level of investment in, research
and development and commercialization activities relating to our products, which may change from time to time; • our ability to
successfully manage relationships with customers, third-party distributors and suppliers of our products; • the timing and
amount of expenditures that we may incur to develop, commercialize or acquire additional products and technologies; • changes
in governmental funding sources; • cyclical changes to the research and development budgets within the pharmaceutical,
biotechnology and industrial segments of synthetic biology; * seasonal spending patterns of our customers; * the expenses
needed to attract and retain skilled personnel; • future accounting pronouncements or changes in our accounting policies; • the
outcome of any litigation or governmental investigations involving us, our industry or both; • higher than anticipated service,
replacement and warranty costs; • the costs associated with being a public company; • changes in the regulatory environment; •
the impact of macro the COVID-19 pandemie on the economy economic factors that affect investment in synthetic biology
and research industries, our business operations, and resources and operations of our customers, suppliers, and distributors; and •
general industry, economic and market conditions and other factors, including factors unrelated to our operating performance or
the operating performance of our competitors. The cumulative effects of the factors discussed above 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. Investors should not rely on our past results as an indication of our future
performance. This variability and unpredictability could also result in our failing to meet the expectations of industry or
financial analysts or investors for any period of time. If our operating results fall below the expectations of analysts or investors
or below any guidance we may provide, or if the guidance we provide is below the expectations of analysts or investors, it
could cause the market price of our common stock to decline. We will likely need to raise additional capital to fund our
<mark>continuing</mark> operations, which may be unavailable to us <mark>on acceptable terms or at all</mark> or may cause dilution or place significant
restrictions on our ability to operate as a going concern on acceptable terms. Our 2022 Loan Agreements may limit or our at
all-flexibility in financing and operating our business and may adversely affect our business, financial condition and
results of operations. If our available cash resources and anticipated cash flow from operations are insufficient to satisfy our
liquidity requirements, including because of lower demand for our products or the realization of other risks described herein, we
will be required to raise additional capital prior to such time through issuances of equity or convertible debt securities, or seek
debt financing or other form of third- party funding. On August 9, 2022, we entered into (i) a Credit, Security and Guaranty
Agreement (Term Loan) (the 2022 Term Loan Agreement), with MidCap Financial Trust (MidCap), and (ii) a Credit,
Security and Guaranty Agreement (the 2022 Revolving Loan Agreement, and together with the 2022 Term Loan
Agreement, each as amended, (the 2022 Loan Agreements). As of September 30, 2023, we were not in compliance with
certain minimum revenue covenants of the 2022 Term Loan Agreement. As a result of this non-compliance, in
November 2023 we repaid $ 15. 0 million under the 2022 Term Loan Agreement and granted MidCap a warrant to
purchase 275, 000 shares of common stock in exchange for amending our 2022 Term Loan Agreements and waiving any
other remedies it may have due to our revenue covenant default. We will likely need to raise funds to offset the amount
repaid or refinance the remaining portion of the 2022 Term Loan in order to continue operating the Company at its
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current spend level. We also may seek to raise additional capital in the future to expand our business, to pursue strategic
investments, to take advantage of financing opportunities or for other reasons, including: • increasing our sales and marketing
and other commercialization efforts to drive market adoption of our products; • funding development and marketing efforts of
our current or any future products; * expanding our technologies into additional markets; * acquiring, licensing or investing in
technologies and other intellectual property rights; • acquiring or investing in complementary businesses or assets; and •
financing capital expenditures and general and administrative expenses. Our present and future funding requirements will
depend on many factors, including: • our rate of progress in increasing penetration of our target markets with current and new
products, and the cost of the sales and marketing activities associated with establishing adoption of our products; • our rate of
progress in, and cost of research and development activities associated with, products in research and development; and • the
effect of competing technological and market developments. Our 2022 Loan Agreements restrict our ability to pursue
certain transactions that we may believe to be in our best interest. If we are unable to obtain adequate financing or financing
on terms satisfactory to us when needed, our ability to continue to pursue our business objectives and to respond to business
opportunities, challenges, or unforeseen circumstances could be significantly limited, and could have a material adverse effect
on our business, financial condition, results of operations and prospects. The various ways we could raise additional capital
carry potential risks. If we raise funds by issuing equity securities, dilution to our stockholders would result. If we raise funds by
issuing debt securities, those debt securities would have rights, preferences and privileges senior to those of holders of our
common stock. The terms of debt securities issued or borrowings pursuant to a credit agreement could impose significant
restrictions on our operations. If we raise funds through collaborations or licensing arrangements, we might be required to
relinquish significant rights to our technologies or products or grant licenses on terms that are not favorable to us. If we raised-
raise funds through the sale of assets, we may sell intellectual property, product lines or other parts of our business. Divestitures
involve risks, including difficulties in the separation of operations, services, products and personnel, the diversion of
management's attention from other business concerns, the disruption of our business, the potential loss of key employees and
the retention of uncertain environmental or other contingent liabilities related to the divested assets. In addition, divestitures may
result in significant asset impairment charges, including those related to goodwill and other intangible assets, and the loss of
revenue which could have a material adverse effect on our financial condition and results of operations. In addition, we may not
realize the expected value from the divested assets and may need to raise additional capital to replace the revenue generated
from any assets that are divested. We can provide no assurance that such capital will be available or available on terms that are
acceptable to us. We cannot assure you that we will be successful in managing these or any other significant risks that we
encounter in selling assets, and any divestiture we undertake could materially and adversely affect our business, financial
condition, results of operations and cash flows, and may also result in a diversion of management attention, operational
difficulties and losses. If we are unable to obtain adequate financing or financing on terms satisfactory to us, we may
have to delay, reduce the scope of, or discontinue one or more development or commercial programs, delay potential
commercialization or reduce the scope of sales or marketing activities and pursue other cost cutting measures, including
the reduction of headcount, scope of operations and planned capital expenditures, which may have a material adverse
effect on our business, results of operations, financial condition or ability to fund our scheduled obligations on a timely
basis or continue as a going concern. Further, our ability to continue to pursue our business objectives and to respond to
business opportunities, challenges, or unforeseen circumstances could be significantly limited and could have a material
adverse effect on our business, financial condition, results of operations and prospects. Our independent registered public
accounting firm's report contains an explanatory paragraph that expresses substantial doubt about our ability to continue as a "
going concern—"As of December 31, 2022 2023, we had $43-19 8-3 million of cash, cash equivalents, restricted cash and
short-term investments. This raises substantial doubt about our ability to continue as a going concern within one year after the
date that the financial statements are were issued, and we will likely need to raise additional capital in the near term in order to
fund our operations through and beyond the first quarter of 2024 and to continue as a going concern thereafter. See Part II, Item
8, Financial Statements and Supplementary Data, Note 1 of this Annual Report on Form 10- K for additional information on our
assessment of our ability to continue as a going concern. Uncertainty regarding our liquidity may ability to continue as a going
concern could also have a material and adverse impact on the price of our common stock, which could negatively impact our
ability to raise sufficient funds for our operations and continue as a going concern. In addition, cash forecasts and capital
requirements are subject to change as a result of a variety of risks and uncertainties. Developments in and expenses associated
with our commercialization activities and other research and development activities may consume capital resources earlier than
planned. Due to these and other factors, forecasts for any periods in which we indicate that we expect to have sufficient
resources to fund our operations, as well as any other operational or business projection we have disclosed, or may disclose,
may not be achieved. Adverse developments affecting the financial services industry, including events or concerns involving
liquidity, defaults or non- performance by financial institutions, could adversely affect our business, financial condition or
results of operations. Actual events involving limited liquidity, defaults, non-performance or other adverse developments that
affect financial institutions 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 adversely affect our liquidity. For example, on March 10, 2023, the
Federal Deposit Insurance Corporation (FDIC) announced that Silicon Valley Bank had been closed by the California
Department of Financial Protection and Innovation. At that time, some of our cash and cash equivalents were held at Silicon
Valley Bank and our access to such funds was limited until the United States Department of the Treasury announced in a joint
statement with the Federal Reserve and FDIC that depositors of Silicon Valley Bank will-would have access to all of their
money starting March 13, 2023. While we have regained access to our funds at Silicon Valley Bank and are continue to
evaluating evaluate our banking relationships, 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 events such as
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liquidity constraints or failures, 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 may also adversely
affect our ability to access our cash and cash equivalents at affected financial institutions. 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 terms favorable to us, or at all. Any decline in available
funding or access to our cash and liquidity resources could, among other things, adversely impact our ability to meet our
operating expenses, financial obligations or fulfill our other obligations, result in breaches of our 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 business, financial condition or results of operations. We may not be able to achieve or maintain satisfactory pricing and
margins for our products. Our industry has a history of price competition, and we can give no assurance that we will be able to
achieve satisfactory prices for our products or maintain prices at the levels we have historically achieved. If we are forced to
lower the price we charge for our products, our gross margins will decrease, which will adversely affect our ability to invest in
and grow our business. We believe that we will continue to be subject to significant pricing pressure, which may limit our ability
to maintain or increase our prices. Our cost of goods is dependent upon the pricing we are able to negotiate with our suppliers of
raw materials, instruments and components. In particular, we have experienced price increases for certain raw materials, such as
oligonucleotides, and expect these raw materials to continue to be in high demand. We have also experienced price increases for
certain raw materials directly as a result of supply chain issues associated with the COVID- 19 pandemic and we are uncertain
how long those constraints could continue to impact our raw material pricing. We do not have long term supply contracts for any
of our raw materials. If our costs increase and we are unable to offset such increases with a proportionate increase in our prices,
our margins would erode, which would harm our business and results of operations. If we fail to attract new customers,
continue to enhance our existing commercialized products or timely introduce compelling new products, our revenues and
our prospects could be harmed. Our ability to attract new customers and increase revenue from existing customers will depend
in large part on our ability to timely introduce compelling new products and pursue new market opportunities that develop as a
result of technological and scientific advances. The success of any enhancement to our existing commercialized products or
introduction of new products depends on several factors, including timely completion and delivery, cost-effective development
and manufacturing, competitive pricing, adequate quality testing, integration with existing technologies, appropriately timed and
staged introduction and overall market acceptance. We have experienced supply chain delays and increases in raw material cost
for several of our products during development, including the our BioXp 9600 system that we launched in 2022. If we continue
to experience these delays and increases in cost, introduction of the our ability to commercialize our BioXp 9600 systems or
other new, planned products could be delayed. Moreover, any other new product that we develop may not be introduced in a
timely or cost- effective manner, may contain defects, errors, vulnerabilities or bugs, or may not achieve the market acceptance
necessary to generate significant revenue. The typical development cycle of new multi- omic and synthetic biology products can
be lengthy and complicated, and may require new scientific discoveries or advancements, considerable resources and complex
technology and engineering. Such developments may involve external suppliers and service providers, making the management
of development projects complex and subject to risks and uncertainties regarding timing, timely delivery of required components
or services and satisfactory technical performance of such components or assembled products. If we do not achieve the required
technical specifications or successfully manage new product development processes, or if development work is not performed
according to schedule, then the development of such new technologies or products may be adversely impacted. In addition, there
is extensive competition in our industry, which is characterized by rapid and significant technological changes, frequent new
product introductions and enhancements and evolving industry demands and standards. Our future success will depend on our
ability to maintain a competitive position, including technologically superior and less expensive products compared to those of
our competitors. Technological development by others may result in our technologies, as well as products developed using our
technologies, becoming obsolete. If we are unable to successfully develop new products, compete with alternative products, or
otherwise gain and maintain market acceptance, our business, results of operations and financial condition could be harmed. We
have defaulted under our Our Credit, Security and Guarantee Agreements (2022 Loan Agreements) with MidCap Financial
Trust and there is continued risk of additional defaults under the 2022 Loan Agreements. The remaining balance of the
2022 Loan Agreements contains continues to be governed by restrictive covenants that limit our operations and allows
MidCap to call our loans if there are additional events of default. Our inability to fulfill these debt obligations could
adversely affect working capital needs and financial condition. Further, our 2022 Loan Agreements may limit our
flexibility in financing and operating our business, which may adversely affect our business, financial condition and
results of operation. Pursuant to the terms of our Term-2022 Loan Agreements and Revolver Loan (the Loans) with wite
MidCap Financial Trust (MidCap), we have borrowed $ 20.0 million and was may become eligible to borrow up to an
additional $ 20-15. O million upon achievement of certain events. If As of September 30, 2023, we are were not in compliance
with the financial certain minimum revenue covenants of the 2022 Loan Agreements. As a result of this non-compliance,
the Lender required us to repay $ 15. 0 million in November 2023 under the 2022 Term Loan Agreements, and as a
result, MidCap required us to repay $ 15. 0 million in November 2023. In addition, as a result of such non-compliance,
MidCap notified us that it is unlikely that MidCap will not offer to extend the additional $ 20-15. 0 million of debt financing
that we were eligible to borrow under the 2022 Loan Agreement prior to our noncompliance in September 2023. We
may not be able to replace the cash we used to repay the outstanding amount to MidCap in November 2023 through
financings, or refinance the additional amount outstanding, and our operations may be materially impacted. The 2022
Loan Agreements with MidCap contain various other restrictive covenants and other restrictions, which could limit our ability
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to take certain actions and reduce our flexibility to run and manage our business, which could have an adverse effect on
our results of operations. These restrictive covenants including include the following restrictions, among other things: • a
minimum revenue covenant; • on our ability to transfer all or part of our business or property, except for inventory in the
ordinary course of business, surplus or obsolete equipment, permitted liens, transfers of cash permitted by the agreement or
certain other transfers; • on- our ability to change our business or move our offices; • on- our ability to liquidate or dissolve or
merge or consolidate with another entity, or acquire another entity; • on-our ability to incur debt or encumber our assets; and • on
our ability to pay dividends or make investments, other than permitted investments. These restrictions may restrict our current
and future operations, particularly our ability to respond to certain changes in our business or industry or take future actions. See
the section titled "Management's Discussion and Analysis of Financial Condition and Results of Operations — Liquidity and
Capital Resources "for additional information. Our ability to meet these restrictive covenants ean may be impacted by events
beyond our control. The 2022 Loan Agreements provide that our breach or failure to satisfy certain covenants constitutes an
event of default. Additionally, the obligations under the 2022 Loan Agreements are also secured by liens on substantially
all of our assets, subject to customary exceptions. If we are unable to repay amounts due under the 2022 Loan
Agreements, MidCap could proceed against such assets. Upon the occurrence of an event of default, our lenders could elect
to declare all amounts outstanding under the 2022 Loan Agreements to be immediately due and payable. If the outstanding debt
under the 2022 Loan Agreements was to be accelerated, we may not have sufficient cash on hand to repay it, which would have
an immediate adverse effect on our business and operating results. This could potentially cause us to cease operations and result
in a complete loss of your investment in our common stock. We depend on our key personnel and other highly qualified
personnel, and if we are unable to recruit, train and retain our personnel, we may not achieve our goals. Our future success
depends upon our ability to recruit, train, retain and motivate key personnel. Our senior management team, including Todd R.
Nelson, Ph. D., our President and Chief Executive Officer; William Kullback, our Chief Financial Officer; Daniel Gibson,
Ph. D., our Chief Technology Officer; <mark>and</mark> Eric Esser, our <mark>President and</mark> Chief Operating Officer <del>and Decky Goodrich, our</del>
Senior Vice President, Commercial Operations, is critical to our vision, strategic direction, product development and
commercialization efforts. We have entered into at- will employment agreements with each of Dr. Nelson, Mr. Kullback, Dr.
Gibson, <mark>and</mark> Mr. Esser <del>and Mr. Goodrich</del>, and such agreements may be terminated by either party at any time without cause.
The departure of one or more of our <del>executives</del> - executive officers, senior management team members or other key employees
could be disruptive to our business unless we are able to hire qualified successors. We do not maintain "key man" life
insurance on our senior management team. Our continued growth depends, in part, on attracting, retaining and motivating
qualified personnel, including highly trained sales personnel with the necessary scientific background and ability to understand
our systems at a technical level to effectively identify and sell to potential new customers. New hires require significant training
and, in most cases, take significant time before they achieve full productivity. Our failure to successfully integrate these key
personnel into our business could adversely affect our business. In addition, competition for qualified personnel is intense,
particularly in the San Diego area, where our operations are headquartered. We compete for qualified scientific and information
technology personnel with other life science and information technology companies as well as academic institutions and
research institutions. We do not maintain fixed- term employment contracts with any of our employees. As a result, our
employees could leave our company with little or no prior notice and would be free to work for a competitor. Due to the
complex and technical nature of our products and technology and the dynamic market in which we compete, any failure to
attract, train, retain and motivate qualified personnel could materially harm our business, results of operations, financial
condition and prospects. If we do not sustain or successfully manage our anticipated growth, our business and prospects will be
harmed. Our anticipated growth will place significant strains on our management, operational and manufacturing systems and
processes, sales and marketing team, financial systems and internal controls and other aspects of our business. As of December
31, <del>2022 <mark>2023</mark> ,</del> we had <del>209 <mark>132</mark> full- time and <del>20 10</del> part- time employees in the United States and <del>14 5</del> full- time employees</del>
located internationally. We expect that we will need to hire additional accounting, finance and other personnel in connection to
our efforts to comply with the requirements of being a public company. As Now that we are a public company, our management
and other personnel are required to devote a substantial amount of time towards maintaining compliance with these requirements
and effectively manage these growth activities. We may face challenges integrating, developing and motivating our rapidly
growing employee base. To effectively manage our growth, we must continue to improve our operational and manufacturing
systems and processes, our financial systems and internal controls and other aspects of our business and continue to effectively
expand, train and manage our personnel. As described in Item 9A below, we have identified a material weakness in our
internal controls related to our limited finance, acounting and IT staffing levels. Our ability to correct this weakness and
our ability to successfully manage our expected growth is uncertain given the fact that we have only been in operation as a
stand- alone company since March 2019. As If our organization continues to grow, we will be required to implement more
complex organizational management structures, and we may find it increasingly difficult to maintain the benefits of our
corporate culture, including our ability to quickly develop and launch new and innovative products. If we do not successfully
manage our anticipated growth, our business, results of operations, financial condition and prospects will be harmed. A
significant portion of our revenue in the near term will be generated from the sale of our current products. While we anticipate
that a substantial contributor to our growth will come from new product introductions, we expect that we will generate in the
near term, we will be substantially dependent on a significant portion of our revenue from the success of the sale sales of our
BioXp systems and the increased sale of BioXp kits and benchtop reagents to our current customers. There can be no assurance
that our current customers will increase their BioXp kit and benchtop reagent purchases. There can also be no assurance that we
will be able to design other products that will meet the expectations of our customers or that any of our future products will
become commercially viable. As technologies change in the future for synthetic biology research tools, we will be expected to
upgrade or adapt our products in order to maintain the latest technology. While concentrating our research and development and
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commercialization efforts on our multi- omics and synthetic biology solutions, we may forego other opportunities that may provide greater revenue or be more profitable. If our research and product development efforts do not result in additional commercially viable products within the anticipated timelines, or at all, our business and results of operations will be adversely affected. Any delay or failure by us to develop and release our new products or product enhancements would have a substantial adverse effect on our business and results of operations. Rapidly changing technology in multi- omics and synthetic biology could make the products we are developing obsolete unless we continue to develop and manufacture new and improved products and pursue new market opportunities. Our industry is characterized by rapid and significant technological changes, frequent new product introductions and enhancements and evolving industry standards. The preferences and needs of our customers may change over time. Our future success will depend on our ability to continually improve the products we are developing, to develop and introduce new products that address the evolving needs of our customers on a timely and costeffective basis, and to pursue new market opportunities that develop as a result of technological and scientific advances. These new market opportunities may be outside the scope of our proven expertise or in areas which have unproven market demand, and the utility and value of new products developed by us may not be accepted in the markets served by the new products. Our inability to gain market acceptance of new products could harm our future operating results. Our future success also depends on our ability to manufacture these new and improved products to meet customer demand in a timely and cost- effective manner, including our ability to resolve manufacturing issues that may arise as we commence production of these complex products. Unanticipated difficulties or delays in replacing existing products with new products we introduce or in manufacturing improved or new products in sufficient quantities to meet customer demand could diminish future demand for our products and harm our future operating results. We **have and** may **continue to engage in acquisitions or strategic partnerships** acquire <mark>or invest in</mark> other companies or technologies, which could divert our management's attention, result in additional dilution to our stockholders, reduce our financial resources, cause us to incur debt, disrupt our operations and harm our operating results. During 2021, we announced the acquisition of EtonBio, Inc. We <mark>have and</mark> may in the future <mark>engage in acquisitions or</mark> strategic partnerships and may seek to acquire or invest in other businesses, applications or technologies that we believe could complement or expand our current or future products, enhance our technical capabilities or otherwise offer growth opportunities. For example, in 2021 acquired Eton Bio, Inc., a San Diego- based biotech company specializing in synthetic biology products and services. Any acquisitions or partnerships may divert the attention of management and cause us to incur various costs and expenses in identifying, investigating and pursuing suitable acquisitions, whether or not they are consummated. We may not be able to identify desirable acquisition targets or be successful in entering into an agreement with any particular target or obtain the expected benefits of any acquisition or investment. To date, the growth of our operations has been mostly organic, and we have limited experience in acquiring and integrating other businesses or technologies. We may not be able to successfully integrate acquired personnel, operations and technologies, or effectively manage the combined business following an acquisition, including the EtonBio, Inc. acquisition. Acquisitions could also result in dilutive issuances of equity securities, the use of our available cash, or the incurrence of debt, which could harm our operating results. In addition, if an acquired business fails to meet our expectations, our operating results, business and financial condition may suffer. If we experience a significant disruption in our information technology systems or breaches of data security, our business could be adversely affected. We rely, and will continue to rely, on multiple information technology systems to operate the systems that allow our company to function, including cloud- based and on- premises information technology systems. We rely extensively on information technology systems to facilitate our principal company activities, including to operate the cloud-based platform on which the services offered to our customers rely. In addition, we also use information technology systems for a variety of key business functions, including to keep financial records, facilitate our research and development initiatives, manage our manufacturing operations, maintain quality control, fulfill customer orders, maintain corporate records, communicate with staff and external parties, and operate other critical functions. Like all companies that rely on information technology systems, our information technology systems and those of our vendors and partners are potentially vulnerable to failures of confidentiality, integrity, and availability. Such failures could include, for example, malicious intrusion, corruption of data, and disruptive events, including but not limited to natural disasters and catastrophes. Such failures, if they occur, could compromise company, vendor or partner systems and employee, company, vendor, or partner data. A wide range of cyber attacks, including cyber intrusions, denial of service, and other malicious internet- based activity, such as social engineering and phishing scams, continue to increase. Cloud- based platform providers of services have been and are expected to continue to be targeted by a variety of threat actors, including sophisticated nation- state and nation- state- supported actors. Such threat actors use attack methods that change frequently, are increasingly complex and sophisticated, including social engineering and phishing scams, and can originate from a wide variety of sources, including insider threats or external actors. In addition to traditional computer " hackers," malicious code, such as viruses and worms, employee theft or misuse, denial- of- service attacks and sophisticated nation- state and nation- state supported actors now engage in attacks, including advanced persistent threat intrusions. In addition, we have not finalized our information technology and data security policies and procedures and therefore, our information technology systems may be more susceptible to such failures and attacks than if such security policies and procedures were finalized. Despite our efforts to create security barriers to such threats, it is virtually impossible for us to entirely mitigate these risks and there is no guarantee that our efforts are or will be adequate to safeguard against all such threats. Moreover, despite our current and future efforts, it is possible that we may not be able to anticipate, detect, appropriately react and respond to, or implement effective preventative measures against, all cybersecurity incidents. Such cybersecurity incidents can be difficult to detect and any delay in identifying such incidents may lead to increased harm and legal exposure of the type described below. If our security measures, or those of our vendors and partners, are compromised for any reason, including negligence, error, or malfeasance, our principal company activities could cease to function, or be significantly degraded, until such cybersecurity incidents are remediated. Further, our business could be harmed, our reputation could be damaged, and we

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could become subject to regulatory inquiries or litigation, all of which could result in significant liability. In addition, if we were
to experience a prolonged system disruption in our information technology systems or those of certain of our vendors and
partners, it could negatively impact our ability to serve our customers, which could adversely impact our business, financial
condition, results of operations and prospects. If operations at our facilities were disrupted and could not be promptly restored,
such disruption could cause a material disruption in our business, financial condition, results of operations, and prospects.
Moreover, there could be public announcements regarding any cybersecurity incidents and, if securities analysts or investors
perceive these announcements to be negative, it could, among other things, have a material adverse effect on our business,
reputation, financial condition, results of operations and prospects. Our information technology systems, and those of our
vendors and partners, are potentially vulnerable to cybersecurity incidents such as data security breaches, which could lead to
the loss and exposure of information, including personal, sensitive, and confidential data, to unauthorized persons, resulting in a
data security breach. Any such data security breaches could, among other things, lead to the loss of trade secrets or other
intellectual property, or could lead to the exposure of personal information, including sensitive personal information, of our
employees, customers and others, any of which could have a material adverse effect on our business, reputation, financial
condition, results of operations and prospects. In addition, any such data security breaches could result in legal claims or
proceedings, regulatory inquiries, investigations, or actions, and other types of liability under laws that protect the privacy and
security of personal information, including federal, state and foreign data protection, privacy, data security, and consumer
protection regulations, violations of which could result in significant penalties and fines. Additionally, the introduction and
passage of new privacy laws, including but not limited to the California Privacy Rights Act (CPRA), which went into effect on
January 1, 2023 and modifies the California Consumer Privacy Act (CCPA), potentially resulting in further uncertainty and may
require us to incur additional costs and expenses in an effort to comply. The CPRA restricts use of certain categories of sensitive
personal information that we may handle, establish restrictions on the retention of personal information, expand the types of
data breaches subject to the private right of action, and establish the California Privacy Protection Agency to implement and
enforce the new law and impose administrative fines. Additional compliance investment and potential business process changes
will likely be required. Similar laws have been proposed in other states and at the federal level, reflecting a trend toward more
stringent data privacy and security legislation in the United States. For example, on March 2, 2021, Virginia enacted the
Virginia Consumer Data Protection Act, or CDPA, which took effect on January 1, 2023, on June 8, 2021, Colorado enacted the
Colorado Privacy Act, or CPA, which takes effect on July 1, 2023, and on March 24, 2022, Utah enacted the Utah Consumer
Privacy Act, or UCPA, which takes effect on December 31, 2023; and on May 10, 2022, Connecticut enacted the Connecticut
Data Privacy Act, or CTDPA, which takes effect on July 1, 2023. The CPA, CDPA, UCPA, and CTDPA share similarities with
and differences from the CPRA and legislation proposed in other states, including Virginia, Colorado, Utah, Indiana, Iowa,
Tennessee, Montana, Texas, and Connecticut have enacted privacy laws similar to the CCPA that impose new
obligations or limitations in areas affecting our business and we continue to assess the impact of these state legislation, on
our business as additional information and guidance becomes available. Aspects of these state privacy statutes remain
unclear, resulting in further uncertainty and potentially requiring us to modify our data practices and policies and to incur
substantial additional costs and expenses in an effort to comply. In addition, U. S. and international laws and regulations that
have been applied to protect user privacy (including laws regarding unfair and deceptive practices in the U. S. and GDPR in the
EU / UK) may be subject to evolving interpretations or applications. This area of law is continuing to evolve and is subject to
significant uncertainty, which may require us to incur additional costs and expenses in order to comply. Furthermore, responding
to a legal claim or proceeding or a regulatory inquiry, investigation, or action, regardless of its merit, could be costly, divert
management's attention and harm our reputation. The Compliance with these laws and regulations is difficult, constantly
evolying, time consuming, and requires a flexible cybersecurity framework and substantial resources. Compliance
efforts will likely be an increasing and substantial cost in the future. Although we have not experienced any major
cybersecurity incidents to date, if we do experience an incident, the cost of protecting against, investigating, mitigating and
responding to these cybersecurity incidents and data security breaches, and complying with applicable breach notification
obligations to individuals, regulators, vendors, partners, and others can be significant. As threats related to cybersecurity
incidents and data security breaches continue to evolve, we may be required to expend significant additional resources to
continue to modify or enhance our protective measures or to detect, appropriately react to, and respond to such cybersecurity
incidents and data security breaches. The inability to implement, maintain and upgrade adequate safeguards could have a
material adverse effect on our business, financial condition, results of operations and prospects. Should such disruptions occur,
our current insurance policies may not be adequate to compensate us for the potential costs and other losses arising from such
disruptions, failures, or security breaches and it is possible that an insurer could deny coverage on any future claim. In addition,
such insurance may not be available to us in the future on economically reasonable terms or at all. The successful assertion of
one or more large claims against us that exceed available insurance coverage, or the occurrence of changes in our insurance
policies, including premium increases or the imposition of large deductible or co- insurance requirements, could have a material
adverse effect on our business, financial condition, results of operations and prospects. A customer may unintentionally misuse
our products or a bad actor may intentionally use our products with intent to create harm and, in either case, third parties may
seek to hold us liable for the resulting harm. All orders for our products that we receive are processed through a security filter.
We verify that the shipping addresses of our customers are valid, screen the customer versus known agent lists and comply in all
material respects with the know your customer rules. Despite these precautions it is possible that one of our customers may
unintentionally misuse our products or a bad actor may attempt to misuse our products to create harm. If misuse of our products
were to occur, the terms and conditions of our invoices may be insufficient to protect us from liability. Any indemnification that
our customers are required to provide to us may be insufficient to cover the costs and damages resulting from the misuse of our
products. Further, any product liability insurance we may obtain could specifically exclude bad acts of our customers from
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coverage or coverage limits may be insufficient to protect us from the amount of the liability we could incur. Any unintentional
or intentional misuse of our products could result in liability or require us to expend costs to defend ourselves, may not be
covered by insurance and may have a material and adverse effect on our business or results of operations. Risks Related to
Supply, Manufacturing and Distribution of Our Products We plan to begin began manufacturing our BioXp products and
certain <del>of materials used in</del> our BioXp products in- house in 2023. We have limited experience manufacturing our products and
if we directly or indirectly encounter problems manufacturing our products or materials, our business and financial results
could suffer. We have historically relied on a single contract manufacturer for our BioXp instruments. We plan to begin began
manufacturing all of our BioXp 9600 systems in- house in mid- 2023 and all of our BioXp 3250 systems by late in the second
half of 2023. Manufacturing our instruments is a highly exacting and complex process. Problems can arise during
manufacturing for a variety of reasons, including equipment malfunction, failure to follow specific protocols and procedures,
problems with raw materials or components, cyber- attacks, natural disasters and environmental factors, and if not discovered
before the product is released to market, such problems could adversely affect our ability to achieve our sales goals and could
result in adverse impacts to our business and financial condition. In addition, if we are unable to properly manufacture our
BioXp systems, finding we may not find an alternative manufacturer on a timely basis, or at all, to replace lost production
capacity may not be possible and we would therefore be unable to supply a sufficient quantities or at an acceptable cost or
quantity quality, which could delay, prevent or impair commercialization of our instruments to meet demand. Additionally,
we have historically relied on external vendors to supply the oligonucleotides we use as raw material in our BioXp kit products.
We <mark>also <del>plan to begin began</del> manufacturing oligonucleotides in our own manufacturing facility in 2023 and expect to scale our</mark>
internal manufacturing operation to supply the majority of this raw material internally. We have limited experience
manufacturing oligonucleotides and it is a highly complex process that requires specialized equipment and techniques. Problems
may arise that could affect both our ability to produce sufficient volume or achieve sufficient quality of oligonucleotides. Some
raw material quality issues may be difficult to detect prior to assembly into our products. This transition requires that we
technically achieve our manufacturing startup milestones as well as navigate the wind-down of external supply. Should we fail
to achieve our goals in manufacturing, or fail to properly manage the wind- down of external supply, our ability to supply kits
would be adversely affected. We currently rely on a single contract manufacturer to manufacture and supply our instruments and
single source suppliers for certain components of our instruments and raw materials. If this manufacturer or these suppliers
should fail or not perform satisfactorily, our ability to commercialize and supply our products would be adversely affected.
While we intend to begin manufacturing of our BioXp systems internally during 2023, we do not currently operate facilities for
manufacturing our BioXp systems. We rely on third parties for the production and packaging of our instruments. Until we
transition manufacturing of our BioXp products in- house during 2023, we will continue to rely on a single contract
manufacturer, D & K Engineering, Inc. (D & K), located in San Diego, to manufacture and supply the BioXp systems. Since our
contract with D & K does not commit it to carry inventory or make available any particular quantities of instruments outside of
accepted purchase orders, D & K may give other customers' needs higher priority than ours, and we may not be able to obtain
adequate supplies in a timely manner or on commercially reasonable terms. We do not have a long-term supply agreement with
D & K. Instead, we typically issue purchase orders for our BioXp systems on a six- month rolling basis. Our purchase orders
with D & K are terminable without cause upon sixty days' notice in writing to the other party. Our reliance on a third party for
the manufacture of our instruments increases the risk that we will not have sufficient quantities of our instruments or will not be
able to obtain such quantities at an acceptable cost or quality, which could delay, prevent or impair commercialization of our
instruments. In the event it becomes necessary to utilize a different contract manufacturer for our BioXp systems, we would
experience additional costs, delays and difficulties as a result of having to identify and enter into an agreement with a new
manufacturer. We would also have to prepare such new manufacturer to meet the technical and logistical requirements
associated with manufacturing our instruments, and our business could suffer as a result. In addition, certain Certain of the
components used in our instruments are sourced from limited or single-source suppliers. If we were to lose such suppliers, there
can be no assurance that we will be able to identify or enter into agreements with alternative suppliers on a timely basis on
acceptable terms, if at all. An interruption in our ability to sell and deliver instruments to customers could occur if we encounter
delays or difficulties in securing these components, or if the quality of the components supplied do not meet our specifications,
or if we cannot then obtain an acceptable substitute, or if we experience continued increases in the costs of these components
due to inflationary pressures. If any of these events occur, our business, results of operations, financial condition and prospects
could be harmed. We also rely on third parties for certain components of our BioXp kits and benchtop reagents, including the
nucleotides we use in our BioXp kits, which are primarily sourced from Integrated DNA Technologies, Inc. (IDT), a division of
Danaher Corporation. In the past, supply issues with IDT caused us to rely on an alternative supplier for these components and
raw materials. We cannot guarantee that we will be able to source these materials at similar quantities and on similar terms if
our preferred suppliers were to become unable or unwilling to fulfill our requirements. Our reliance on third party manufacturers
subjects us to risks associated with their businesses and operations. This dependence on others may harm our ability to develop
and commercialize our products on a timely and competitive basis. Any such failure may result in decreased product sales and
lower product revenue, which would harm our business. For example, even if we have agreements with third parties, they may
not perform their obligations to us and they may be unable or unwilling to establish or increase production capacity
commensurate with our needs. Disputes may also arise between us and our suppliers that result in the delay or termination of
commercialization or that result in costly litigation or arbitration that diverts management's attention and resources. Also, third
party manufacturers are subject to their own operational and financial risks that are outside of our control, and potentially their
control also, that may cause them to suffer liquidity or operational problems and that could interfere with their business
operations. For example, our suppliers have also been impacted by the COVID-19 pandemic and some of our raw materials
and components originate in China. We have also experienced supply delays for critical hardware, instrumentation and supplies
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that we use for product development, as these other components and supplies are otherwise diverted to COVID-19- related
testing and other uses. We have limited experience producing and supplying our products. We may be unable to consistently
manufacture or source our products to the necessary specifications or in quantities necessary to meet demand on a timely basis
and at acceptable performance and cost levels. Our BioXp systems, BioXp kits and benchtop reagents comprise an integrated
solution with many different components that work together. As such, a quality defect in a single component can compromise
the performance of the entire system. In order to successfully generate revenue from this product line, we need to supply our
customers with products that meet their expectations for quality and functionality in accordance with established specifications
on a timely basis. Our instruments are manufactured using complex processes, sophisticated equipment and strict adherence to
specifications and quality systems procedures. Given the complexity of this instrumentation, individual units may occasionally
require additional installation and service prior to becoming available for customer use. We have experienced quality issues with
certain of our mRNA BioXp kits in the past and if we have additional issues with this product or future products, our business
could be harmed. As we continue to scale commercially and develop new products, and as our products incorporate increasingly
sophisticated technology, it will become more difficult to ensure our products are produced in the necessary quantities while
maintaining quality. There is no assurance that we or our third- party manufacturers will be able to continue to manufacture our
products so that our technology consistently achieves the product specifications and produces results with acceptable quality. In
addition, our BioXp kits and benchtop reagents have a limited shelf life, after which their performance is not ensured and many
of our products must be shipped and stored at controlled temperatures. Shipment of BioXp kits and benchtop reagents that
exceed their shelf life or shipment of defective products to customers may result in recalls and warranty replacements, which
would increase our costs and may damage our reputation, and depending upon current inventory levels and the availability and
lead time for additional inventory, could lead to availability issues. Any future design issues, unforeseen manufacturing
problems, such as contamination of our or our manufacturers' facilities, equipment malfunctions, aging components, quality
issues with components and materials sourced from third- party suppliers, or failures to strictly follow procedures or meet
specifications, may have a material adverse effect on our brand, business, reputation, results of operations and financial
condition and could result in us or our third- party manufacturers losing International Organization for Standardization (ISO) or
quality management certifications. If our third- party manufacturers fail to maintain ISO quality management certifications, our
customers might choose not to purchase products from us. In addition, as we scale our commercial operations, we will also need
to make corresponding improvements to other operational functions, such as our customer support, service and billing systems,
compliance programs and internal quality assurance programs. We cannot assure you that any increases in scale, related
improvements and quality assurance will be successfully implemented or that appropriate personnel will be available. As we
develop additional products, we may need to bring new equipment on-line, implement new systems, technology, controls and
procedures and hire personnel with different qualifications. An inability to manufacture products and components that
consistently meet specifications, in necessary quantities, at commercially acceptable costs and without significant delays, may
have a material adverse effect on our business, results of operations, financial condition and prospects. We must continue to
secure and maintain sufficient and stable supplies of components and raw materials. Certain disruptions in the supply of, and
changes in the competitive environment for, components and raw materials integral to the manufacturing of our products may
adversely affect our profitability. We use a broad range of materials and supplies in our products. A significant disruption in the
supply of these materials could decrease production and shipping levels, materially increase our operating costs and materially
and adversely affect our revenues and profit margins. For example, we have experienced supply chain delays for several of
our products during development, including our BioXp 9600 system. Shortages of materials or interruptions in
transportation systems, labor strikes, work stoppages, war, acts of terrorism or other interruptions to or difficulties in the
employment of labor or transportation in the markets in which we purchase materials, components and supplies for the
production of our products, in each case, may adversely affect our ability to maintain production of our products and achieve
profitability. Unforeseen discontinuation or unavailability of certain components, such as enzymes or nucleotides, each of which
we currently primarily source from a single supplier, could cause backorders as we modify our product specifications to
accommodate replacement components. If we were to experience a significant or prolonged shortage of critical components
from any of our suppliers and could not procure the components from other sources, we would be unable to manufacture our
products and ship them to our customers in a timely fashion, or at all, which would adversely affect our sales, margins and
customer relations. Our products could have defects or errors, giving rise to claims against us, adversely affecting market
adoption and negatively impacting our business, financial condition, and results of operations. Our products utilize novel and
complex technology related to writing synthetic DNA and mRNA and may develop or contain undetected defects or errors. We
cannot assure you that material performance problems, defects, or errors will not arise, and as we commercialize our products,
these risks may increase. We provide warranties at the point of sale that our products will meet performance expectations and
will be free from defects. We also provide extended warranties at an additional cost to the customer. The costs incurred in
correcting any defects or errors may be substantial and could adversely affect our operating margins. In manufacturing our
products, we depend upon third parties for the supply of our instruments and various components, many of which require a
significant degree of technical expertise to produce. If we fail to make our products to specification or produce defective
products, or if our suppliers fail to make our <del>products or their</del> components to specification or provide defective <del>products</del>
components to us, and our quality control tests and procedures fail to detect such errors or defects, or if we or our suppliers use
defective materials or workmanship in the manufacturing process, the reliability and performance of our products will be
compromised. If our products contain defects, we may experience: a failure to achieve market acceptance for our products;
loss of customer orders and delay in order fulfillment; * damage to our reputation; * increased warranty and customer service
and support costs due to product repair or replacement; * product recalls or replacements; * inability to attract new customers; *
diversion of resources from our manufacturing and research and development departments into our service department; and •
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legal claims against us, including product liability claims, which could be costly and time consuming to defend and result in substantial damages. If we become subject to product liability claims, we may be required to pay damages out of our cash reserves. Our business exposes us to potential product liability claims that are inherent in the production, marketing and sale of biotechnological and genetic products. We do not currently have product liability insurance and any product liability claim, or recall of one of our products, would have to be paid out of our cash reserves. Shipping is a critical part of our business. Any changes in our shipping arrangements or damages or losses sustained during shipping could adversely affect our business, financial condition, results of operations and prospects. We currently rely on commercial carriers for our shipping. If we are not able to negotiate acceptable pricing and other terms with these carriers, or if they experience performance problems or other difficulties, it could negatively impact our operating results and our customers' experience. If a product is damaged in transit, it may result in a substantial delay in the fulfillment of the customer's order, and depending on the type and extent of the damage and whether the incident is covered by insurance, it may result in a substantial financial loss to us. If our products are not delivered in a timely fashion or are damaged or lost during the delivery process, our customers could become dissatisfied and cease using our products or services, which would adversely affect our business, financial condition, results of operations and prospects. Our business depends on our ability to quickly and reliably deliver our products and in particular, our BioXp kits and benchtop reagents, to our customers. Certain of these products are perishable and must be kept below certain temperatures and, therefore, we ship these products on dry ice and only ship such products on certain days of the week to reach customers without spoilage. Disruptions in the delivery of these products, whether due to labor disruptions, bad weather, natural disasters, terrorist acts or threats or for other reasons could result in our customers receiving products that are not fit for use, and if used, could result in inaccurate results or ruined experiments. While we work with customers to replace any products that are impacted by delivery disruptions, our reputation and our business may be adversely impacted even if we replace products free of charge. In addition, if we are unable to continue to obtain expedited delivery services on commercially reasonable terms, our operating results may be adversely affected. In addition, should our commercial carriers encounter difficulties in delivering our products to customers, particularly at the end of any financial quarter, it could adversely impact our ability to recognize revenue for those products in that period and accordingly adversely affect our financial results for that period. Risks Related to Our Sales, Marketing and Customer Support We have limited experience in sales and marketing of our products. If we are unable to expand our sales, marketing, distribution and customer service and support capabilities, we may not be successful in commercializing our current and future products. We have limited experience in sales and marketing our products. Our ability to achieve profitability depends on our being able to attract customers for our products. To meet our sales objectives, we must may need to expand our sales, marketing, distribution and customer service and support capabilities with personnel with the appropriate technical expertise. In undertaking expansion efforts, we will face a number of risks relating to: • our ability to attract, retain and manage the sales, marketing and customer service and support personnel necessary to commercialize and gain market acceptance for our technology; \* the time and cost of maintaining specialized sales, marketing and customer service and support personnel; and • the relative success of our sales, marketing and customer service and support personnel. We currently enlist, and may in the future seek to enlist one or more third parties to assist with sales, distribution and customer service and support. There is no guarantee that we will be successful in attracting effective sales and distribution partners or that we will be able to enter into such arrangements on favorable terms. If our sales and marketing efforts, or those of any third-party sales and distribution partners, are not successful, our products, including the BioXp systems, may not gain market acceptance, which could materially impact our business and results of operations. A substantial proportion of our sales are through distributors, and we do not control their efforts to sell our products. If our relationships with these third-party distributors deteriorate, or if these third-party distributors fail to sell our products or engage in activities that harm our reputation, our financial results may be negatively affected. Our current sales model includes direct sales in North America and parts of Europe, and relationships with third party distributors in other parts of Europe and various countries in the Middle East, Africa and Asia Pacific regions. We believe that our reliance on distributors improves the economics of our business, as we do not carry the high fixed costs of a direct sales force in many of the countries in which our products are sold. If we are unable to maintain or enter into such distribution arrangements on acceptable terms, or at all, we may not be able to successfully commercialize our products in certain countries. Furthermore, distributors can choose the level of effort that they apply to selling our products relative to others in their portfolio. The selection, training, and compensation of distributors' sales personnel are within their control rather than our own and may vary significantly in quality from distributor to distributor. They may experience their own financial difficulties, or distribution relationships may be terminated or allowed to expire, which could increase the cost of or impede commercialization of our products in applicable countries. Disputes may also arise between us and our distributors that result in the delay or termination of commercialization or that result in costly litigation or arbitration that diverts management's attention and resources. Distributors 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 proprietary information or expose us to potential litigation. Distributors could move forward with competing products developed either independently or in collaboration with others, including our competitors. In addition, although our contract terms require our distributors to comply with all applicable laws regarding the sale of our products, including regulatory labelling labelling, protection of personal data, U. S. export regulations and the U. S. Foreign Corrupt Practices Act (FCPA), we may not be able to ensure proper compliance. If our distributors fail to effectively market and sell our products in full compliance with applicable laws and regulations, our results of operations and business may suffer. The size of the markets for our products may be smaller than estimated, and new market opportunities may not develop as quickly as we expect, or at all, thus limiting our ability to successfully meet our anticipated revenue projections. The market for synthetic biology technologies and products is evolving, making it difficult to predict with any accuracy the size of the markets for our current and future products, including our BioXp systems, BioXp kits and benchtop reagents. Our estimates of the total addressable market for our current and future products are based on a number

of internal and third- party estimates and assumptions. In particular, our estimates are based on our expectations that researchers in the market for certain synthetic biology research tools and technologies will view our products as competitive alternatives to, or better options than, existing tools and technologies. We also expect researchers will recognize the ability of our products to complement, enhance and enable new applications of their current tools and technologies. Underlying each of these expectations are a number of estimates and assumptions that may be incorrect, including the assumptions that government or other sources of funding will continue to be available to synthetic biology researchers at times and in amounts necessary to allow them to purchase our products and that researchers have an unmet need for performing synthetic biology applications. As a result, the sizes of the annual total addressable market for new markets and new products are even more difficult to predict. The synthetic biology market may develop more slowly or differently than we expect. While we believe our assumptions and the data underlying our estimates of the total addressable market for our products are reasonable, these assumptions and estimates may not be correct and the conditions supporting our assumptions or estimates, or those underlying the third- party data we have used, may change over time, thereby reducing the accuracy of our estimates. As a result, our estimates of the total addressable market for our products may be incorrect. The future growth of the market for our current and future products depends on many factors beyond our control. For example, in 2020, 11 % of our revenue was from products specifically targeting research and development efforts related to COVID- 19 vaccines and therapeutic products. As effective COVID- 19 vaccines or treatments were developed, approved and rolled out to protect against and treat the COVID-19 virus, demand for these products declined, the size of our market opportunity for such products was impacted and our revenue was affected as a result. In 2022-2023, our revenue from COVID- 19 related products was less than 1 % of total revenue. We expect that our products will be subject to the market forces and adoption curves common to other new technologies. The market for synthetic biology technologies and products is in its early stages of development. Sales of new products into new market opportunities may take years to develop and mature and we cannot be certain that these market opportunities will develop as we expect. If the markets for our current and future products are smaller than estimated or do not develop as we expect, our growth may be limited and our business, financial condition and operational results of operations could be adversely affected. Our success depends on broad scientific and market acceptance of our products, which we may fail to achieve. Our ability to achieve and maintain scientific and commercial market acceptance of our products will depend on a number of factors. If widespread adoption of our products takes longer than anticipated, we will continue to experience operating losses. The success of life sciences products is due, in large part, to recognition and acceptance by the scientific community, their adoption of these products in the applicable field of research and the growth, prevalence and costs of competing products. Such recognition and acceptance of our products may not occur in the near term, or at all. New synthetic biology technology, including our own Gibson SOLA and other new technologies, may not be adopted until the consistency and accuracy of such technology has been proven, if ever. Other factors in achieving commercial market acceptance of our products include: • our ability to market and increase awareness of the capabilities of our products; • our customers' willingness to adopt new products and workflows; • whether early adopters and key opinion leaders (KOLs) publish research involving the use of our products; • our products' ease- of- use and whether it reliably provides advantages over alternative technologies; • the rate of adoption of our products and services by academic institutions, laboratories, biopharmaceutical companies and others; • the prices we charge for our products; • our ability to develop new products and workflows; • whether competitors commercialize products that perform similar functions as our products; and • the impact of our investments in product innovation and commercial growth. We cannot assure you that we will be successful in addressing each of these criteria or other criteria that might affect the market acceptance of any products we commercialize. If we are unsuccessful in achieving and maintaining scientific and market acceptance of our products, our business, financial condition and results of operations would be adversely affected. The synthetic biology technology market is highly competitive. If we fail to compete effectively, our business and results of operation will suffer. We face significant competition in the synthetic biology technology market. We currently compete with synthetic biology technology companies and the companies that are supplying components, products and services that serve customers engaged in synthetic biology research. These companies include, among others, Thermo Fisher Scientific Inc.; Danaher Corporation; Azenta; GenScript Biotech Corporation; DNA Script SAS; Integrated DNA Technologies, Inc.; Molecular Assemblies, Inc.; Nuclera Nucleics Ltd; Nutcracker Therapeutics, Inc.; Twist Bioscience Corporation; Aldevron, LLC; TriLink BioTechnologies, Inc.; Evonetix Ltd.; Eurofins <del>, <mark>Scientific ;</del> Synthego <mark>Corporation ; <del>Illumnina</del> - <mark>Illumina, Inc.</mark> ; and Roche <mark>AG</mark> . Some of our current competitors are</del></mark></mark> large, publicly- traded companies, or are divisions of large publicly- traded companies, and may enjoy a number of competitive advantages over us, including: greater name and brand recognition; greater financial and human resources; broader product lines; \* larger sales forces and more established distributor networks; \* substantial intellectual property portfolios; \* larger and more established customer bases and relationships; and • better established, larger scale and lower cost manufacturing capabilities. We cannot assure investors that our products will compete favorably or that we will be successful in the face of increasing competition from products and technologies introduced by our existing or future competitors or companies entering our markets. In addition, we cannot assure investors that our competitors do not have or will not develop products or technologies that currently or in the future will enable them to produce competitive products with greater capabilities or at lower costs than ours. Any failure to compete effectively could materially and adversely affect our business, financial condition and operating results. Our revenue, results of operations and cash flows would be adversely affected by the loss of a significant customer. We have derived, and we may continue to derive, a significant portion of our revenues from a limited number of large customers. We estimate that our twenty largest customers accounted for 47-54 % and 54-59 % of our revenue for the years ended December 31, 2021 2022 and December 31, 2022 2023, respectively. The loss of key customers, or the reduction in the amount of product ordered by them may adversely affect our revenue, results of operations, cash flows and reputation in the marketplace. One customer, Pfizer, Inc., accounted for 24-33 % of our revenue for the year ended December 31, 2022-2023, based on primarily attributable to a Research and License Agreement. We cannot assure you that Pfizer, Inc. will fully

adopt our technology in its clinical processes and as such cannot assure you that we will continue to derive significant revenue from that agreement. We generally do not have long-term contracts with our customers requiring them to purchase any specified quantities of products from us. We generally do not have long-term contracts with our customers requiring them to purchase any specified quantities of products from us. Without such contracts, our customers are not obligated to order our products. We cannot accurately predict our customers' decisions to reduce or cease purchasing our products. Additionally, even where we enter into contracts with our customers, there is no guarantee that such agreements will be negotiated on terms that are commercially favorable to us in the long term. If many of our customers were to substantially reduce their purchase volume or cease ordering products from us, this could materially and adversely affect our financial performance. Our business will depend significantly on research and development spending by the pharmaceutical, biotechnology and industrial agricultural customers, as well as academic institutions and other research institutions. Any reduction in spending could limit demand for our products and adversely affect our business, results of operations, financial condition and prospects. We expect that substantially all of our sales revenue in the near term will be generated from sales to pharmaceutical, biotechnology and industrial agricultural customers, as well as academic institutions and other research institutions. Much of these customers' funding is dependent on annual research and development budgets and in the case of academic and other research institutions will be, in turn, provided by various state, federal and international government agencies. As a result, the demand for our products will depend upon the research and development budgets of these customers, which are impacted by factors beyond our control, such as: \* research and development budgets within the pharmaceutical, biotechnology, agricultural and other industries; government funding of research and development; changes to programs that provide funding to research laboratories and institutions, including changes in the amount of funds allocated to different areas of research or changes that have the effect of increasing the length of the funding process; \* macroeconomic conditions and the political climate; \* potential changes in the regulatory environment; • differences in budgetary cycles, especially government- or grant- funded customers, whose cycles often coincide with government fiscal year ends; \* market- driven pressures to consolidate operations and reduce costs; and \* scientific and market acceptance of relatively new synthetic biology products. In addition, various state, federal and international agencies that provide grants and other funding may be subject to stringent budgetary constraints that could result in spending reductions, reduced grant making, reduced allocations or budget cutbacks, which could jeopardize the ability of funding organizations or the organizations to whom they provide funding, to purchase our products. For example, congressional appropriations to the National Institutes of Health (NIH), have generally increased year- over- year for the last 19 years, and reached a new high in 2020, but the NIH also experiences occasional year- over- year decreases in appropriations, including as recently as 2013. In addition, funding for life science research has increased more slowly during the past several years compared to previous years and has actually declined in some countries. There is no guarantee that NIH appropriations will not decrease in the future, and a decrease may be more likely under the current administration, whose annual budget proposals have repeatedly decreased NIH appropriations. A decrease in the amount of, or delay in the approval of, appropriations to NIH or other similar United States or international organizations, such as the Medical Research Council in the United Kingdom, could result in fewer grants benefiting synthetic biology research. These reductions or delays could also result in a decrease in the aggregate amount of grants awarded for synthetic biology research or the redirection of existing funding to other projects or priorities, any of which in turn could cause our customers and potential customers to reduce or delay purchases of our products. Our operating results may fluctuate substantially due to any such reductions and delays. Any decrease in our customers' budgets or expenditures, or in the size, scope or frequency of their capital or operating expenditures, could materially and adversely affect our business, results of operations, financial condition and prospects. Our success depends on our ability to service and support our products directly or in collaboration with our strategic partners. To the extent that we or our strategic partners fail to maintain a high quality level of service and support for our products, there is a risk that the perceived quality of our products will be diminished in the marketplace. Likewise, we may fail to provide the level, quantity or quality of service expected by the marketplace. This could result in slower adoption rates and lower than anticipated utilization of our products, which could have a material adverse effect on our business, financial condition and results of operations. Risks Related to Health Pandemics, including the Recent COVID-19 Pandemic and Other Natural Disasters Unfavorable U. S. or global economic conditions, including inflation, as a result of the COVID-19 pandemic, or otherwise, could adversely affect our ability to raise capital and our business, results of operations and financial condition. While the potential economic impact brought by , and the duration of, the COVID-19 pandemic is difficult to assess or predict, the COVID-19 pandemic has resulted in, and may continue to result in, extreme volatility and disruptions in the capital and credit markets in general and has negatively impacted our stock price since becoming a public company in 2021. Should this impact continue, our ability to raise additional capital through equity, equity- linked or debt financings, will be reduced, which could negatively impact our short- term and long- term liquidity and our ability to operate in accordance with our operating plan, or at all. Additionally, our results of operations could be adversely affected by general conditions in the global economy, including inflation, and financial markets. The capital markets or general economic conditions may be adversely affected by geopolitical risks, hostilities, terrorist attacks or wars, including the current war between Russia and Ukraine and ongoing hostilities in the Middle East. A severe or prolonged economic downturn could result in a variety of risks to our business, including weakened demand for our products and our ability to raise additional capital when needed on favorable terms, if at all. A weak or declining economy could strain our customers' budgets or cause delays in their payments to us. Any of the foregoing could harm our business. We cannot anticipate all of the ways in which the current economic climate and financial market conditions could adversely impact our ability to raise capital, business, results of operations and financial condition. The COVID- 19 pandemic and efforts..... regulatory policies and operations is unclear. If our facilities or our third- party manufacturers' facilities become unavailable or inoperable, our research and development program and commercialization of our products could be adversely impacted and manufacturing of our products could be interrupted. Our San Diego, California, facilities house our corporate, research and development, manufacturing operations

and quality assurance teams and will house our manufacturing operations beginning in 2023. Currently, all of our instruments BioXp systems are manufactured at our third-party manufacturer's facilities in our San Diego, facilities and our BioXp kits and benchtop reagents are manufactured at various locations in the United States and internationally, including our San Diego facilities. We do not have a second or back- up facility to use if our San Diego facilities become inoperable. Our facilities in San Diego and those of our third- party manufacturers are vulnerable to natural disasters, public health crises, including the impact of the COVID-19 pandemie, and catastrophic events. For example, our San Diego facilities are located near earthquake fault zones and are vulnerable to damage from earthquakes as well as other types of disasters, including fires, floods, power loss, communications failures and similar events. If any disaster, public health crisis or catastrophic event were to occur, our ability to operate our business would be seriously, or potentially completely, impaired. If our facilities or our third-party manufacturer's facilities become unavailable for any reason, we cannot provide assurances that we will be able to secure alternative manufacturing facilities with the necessary capabilities and equipment on acceptable terms, if at all. We may encounter particular difficulties in replacing our San Diego facilities given the specialized equipment housed within it. The inability to manufacture our products, combined with our limited inventory of finished products, may result in the loss of future customers or harm our reputation, and we may be unable to re- establish relationships with those customers in the future. If our research and development program or commercialization program were disrupted by a disaster or catastrophe, the launch of new products, including our workflow automation and reagent solutions, and the timing of improvements to our products could be significantly delayed and could adversely impact our ability to compete with other available products and solutions. If our or our third- party manufacturer's capabilities are impaired, we may not be able to manufacture and ship our products in a timely manner, which would adversely impact our business. Although we possess insurance for damage to our property and the disruption of our business, this insurance may not be sufficient to cover all our potential losses and may not continue to be available to us on acceptable terms, or at all. The COVID-19 pandemic and efforts to reduce its spread have adversely impacted our business and operations. The COVID-19 pandemic had an adverse impact on our operations, particularly as a result of preventive and precautionary measures that we, other businesses and governments took as a result of the pandemic.Governmental mandates related to COVID- 19 impacted and may continue to impact the availability and cost of materials, which disrupted or delays delayed our receipt of components and supplies from the third parties we rely on to, among other things, manufacture our BioXp systems, BioXp kits and benchtop reagents or source and timely receive parts and components from third parties. Moreover, the COVID-19 pandemic had a significant impact on our ability to retain employees and forced us to fill positions more frequently than we have had to do so in the past . We cannot assure you that in the future we will be able to fill these positions quickly. To the extent that any governmental authority imposes additional regulatory requirements or changes existing laws, regulations and policies that apply to our business and operations, such as additional workplace safety measures for new health related crises, our product development plans may be delayed, and we may incur further costs in bringing our business and operations into compliance with changing or new laws, regulations and policies. Recently-On May 11,2023, President Biden 's announced that the administration intends to end-ended the COVID- 19 national and public health emergencies on May 11,2023. The full impact of the termination of the public health emergencies on FDA and other regulatory policies and operations is unclear. Risks Related to Doing Business Internationally Doing business internationally creates operational and financial risks for our business. We estimate that during the fiscal years ended December 31, <del>2021 <mark>2022</mark> and December 31, <del>2022 <mark>2023</del>, approximately <del>30 % and 14 %, respectively,</del> of our revenue was generated from</del></del></mark> customers located outside of the United States. In connection with our growth strategy, we intend to further expand in international markets. Conducting and launching operations on an international scale requires close coordination of activities across multiple jurisdictions and time zones and consumes significant management resources. If we fail to coordinate and manage these activities effectively, our business, financial condition or results of operations could be adversely affected. International sales entail a variety of risks, including longer payment cycles and difficulties in collecting accounts receivable outside of the United States, currency exchange fluctuations, challenges in staffing and managing foreign operations, tariffs and other trade barriers, unexpected changes in legislative or regulatory requirements of foreign countries into which we sell our products, difficulties in obtaining export licenses for our products or in overcoming other trade barriers, laws and business practices favoring local companies, political and economic instability, including conflicts and tensions involving Russia and China and the Israel- Hamas war, difficulties protecting or procuring intellectual property rights, and restrictions resulting in delivery delays and significant taxes or other burdens of complying with a variety of foreign laws. Changes in the value of the relevant currencies may affect the cost of certain items required in our operations. Changes in currency exchange rates may also affect the relative prices at which we are able to sell products in the same market. Our revenue from international customers may be negatively impacted as increases in the U. S. dollar relative to our international customers' local currency could make our products more expensive, impacting our ability to compete. Our costs of materials from international suppliers may increase if in order to continue doing business with us they raise their prices as the value of the U.S. dollar decreases relative to their local currency. Foreign policies and actions regarding currency valuation could result in actions by the United States and other countries to offset the effects of such fluctuations. The recent global financial downturn has led to a high level of volatility in foreign currency exchange rates and that level of volatility may continue, which could adversely affect our business, financial condition or results of operations. Our international business could expose us to business, regulatory, political, operational, financial, and economic risks associated with doing business outside of the United States. Engaging in international business inherently involves a number of difficulties and risks, including: • required compliance with existing and changing foreign regulatory requirements and laws that are or may be applicable to our business in the future, such as the European Union's General Data Protection Regulation, including as implemented in the UK (GDPR), and other data privacy requirements, labor and employment regulations, anti-competition regulations, the U. K. Bribery Act of 2010 and other anti-corruption laws; required compliance with U. S. laws such as the FCPA, and other U. S. federal laws and regulations, including those established

by the Office of Foreign Asset Control; • export requirements and import or trade restrictions; • laws and business practices favoring local companies; • foreign currency exchange fluctuations, longer payment cycles and difficulties in enforcing agreements and collecting accounts receivables through certain foreign legal systems; • hyperinflation or economic or political instability in foreign countries, including the outbreak of war in the Ukraine or the Middle East; r changes in social, economic, and political conditions or in laws, regulations and policies governing foreign trade, manufacturing, research and development, and investment, including as a result of the separation of the United Kingdom from the European Union, commonly referred to as Brexit; \* the imposition of inconsistent laws or regulations; \* changes in or interpretations of foreign law that may adversely affect our ability to sell our products, perform services or repatriate profits to the United States; potentially adverse tax consequences, tariffs, customs charges, bureaucratic requirements and other trade barriers; • difficulties and costs of staffing and managing foreign operations; and • difficulties protecting, maintaining, enforcing or procuring intellectual property rights. If one or more of these risks occurs, it could require us to dedicate significant resources to remedy such occurrence, and if we are unsuccessful in finding a solution, our financial results will suffer. We may be subject to fines or other penalties for potential past violations of U. S. export control and economic sanctions laws. Our international business activities must comport with U. S. export controls and other international trade restraints, including the U. S. Department of Commerce's Export Administration Regulations and economic sanctions regulations administered by the U. S. Treasury Department's Office of Foreign Assets Control. In late 2021, following a voluntary internal review of our compliance with U. S. export control and sanctions laws, we became aware that certain of our products had been sold indirectly into embargoed countries via our distributors and resellers, potentially in violation of U. S. export control and economic sanctions laws. These laws restrict or prohibit the sale of certain products, including our BioXp systems, into certain countries, including Russia. In the past, we may have exported products prior to receiving these required authorizations. We believe that these potential violations were inadvertent and occurred because we and certain of our resellers did not have sufficient compliance procedures in place to prevent the transactions at issue. As a result, we were unable to preclude certain of our channel partners and resellers from selling our solutions into countries subject to a U. S. embargo until late 2021. Commencing in late 2021, we took a series of corrective actions intended to remediate the effect of any unauthorized past actions, including actions to permanently stop supporting the use of our BioXp systems in sanctioned countries . On April 3, 2023, the U. S. Department of Commerce, Bureau of Industry and Security issued a warning letter closing its investigation of this matter. The warning letter stated that based on the facts and circumstances, the matter is closed with no further action required. Should we have similar issues arise in the future, the U. S. government may reconsider its decision to close this matter. We are subject to various U. S. and international anti- corruption laws and other anti- bribery and anti- money laundering laws and regulations. We are subject to the FCPA, the U. S. domestic bribery statute contained in 18 U. S. C. § 201, the U. S. Travel Act, and other anticorruption, anti- bribery, and anti- money laundering laws in the jurisdictions where we do business, both domestic and abroad. Anti- corruption and anti- bribery laws have been enforced aggressively in recent years and are interpreted broadly. These laws generally prohibit companies, their employees, business partners, third- party intermediaries, representatives, and agents from authorizing, offering, or providing, directly or indirectly, improper payments or benefits to government officials or commercial parties to obtain or retain business, direct business to any person, or gain any improper advantage. We sometimes leverage third parties to conduct our business abroad. We and our employees, business partners, third-party intermediaries, representatives, and agents may have direct or indirect interactions with officials and employees of government agencies or state- owned or affiliated entities and we may be held liable for their corrupt or other illegal activities even if we do not explicitly authorize those activities. We cannot assure you that our employees and agents will not take actions that violate applicable law, for which we may be ultimately held responsible. These laws also require that we keep accurate books and records and maintain internal accounting controls and compliance procedures designed to prevent any such actions. While we have policies and procedures to address compliance with these laws, we cannot assure you that our employees, business partners, third-party intermediaries, representatives, and agents will not take actions that violate our policies or applicable law, for which we may be ultimately held responsible. Our exposure for violating these laws increases as our international presence expands and as we increase sales and operations in foreign jurisdictions. Any violation of the FCPA or other applicable anti- bribery, anti- corruption, and antimoney laundering laws could result in whistleblower complaints, adverse media coverage, investigations, loss of export privileges, severe criminal or civil sanctions, settlements, prosecution, enforcement actions, fines, damages, or suspension or debarment from government contracts, all of which may have an adverse effect on our reputation, business, stock price, financial condition, prospects, and results of operations. In addition, responding to any investigation or action will likely result in a materially significant diversion of management's attention and resources and significant defense costs and other professional fees. Risks Related to Our Regulatory Environment If we elect to label and promote any of our products as clinical diagnostics tests or medical devices, we would be required to obtain prior approval or clearance by the U. S. Food and Drug Administration (FDA), which would take significant time and expense and could fail to result in FDA clearance or approval for the intended uses we believe are commercially attractive. Our products are currently labeled and promoted, and are, and in the near-future will be, sold primarily to academic and research institutions and research companies as research use only (RUO) products. They are not currently designed, or intended to be used, for clinical diagnostic tests or as medical devices. If we elect to label and market our products for use as, or in the performance of, clinical diagnostics in the United States, thereby subjecting them to FDA regulations as medical devices, we would be required to obtain premarket 510 (k) clearance or premarket approval from the FDA, unless an exception applies. We may in the future register with the FDA as a medical device manufacturer and list some of our products with the FDA pursuant to an FDA Class I listing for general purpose laboratory equipment. While this regulatory classification is exempt from certain FDA requirements, such as the need to submit a premarket notification commonly known as a 510 (k), and some of the requirements of the FDA's Quality System Regulations (OSRs), we would be subject to ongoing FDA "general controls," which include compliance with FDA regulations for labeling, inspections by the

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FDA, complaint evaluation, corrections and removals reporting, promotional restrictions, reporting adverse events or
malfunctions for our products, and general prohibitions against misbranding and adulteration. In addition, we may in the future
submit 510 (k) premarket notifications to the FDA to obtain FDA clearance of certain of our products. It is possible, in the event
we elect to submit 510 (k) applications for any of our products, that the FDA would take the position that a more burdensome
premarket application, such as a premarket approval application or a de novo application, is required for those same products. If
such applications were required, greater time and investment would be required to obtain FDA approval. Even if the FDA
agreed that a 510 (k) was appropriate, FDA clearance can be expensive and time consuming. Notwithstanding the effort and
expense. FDA clearance or approval could be denied for some or all of our products for which we choose to market as a medical
device or a clinical diagnostic device. There can be no assurance that future products for which we may seek premarket
clearance or approval will be approved or cleared by FDA or a comparable foreign regulatory authority on a timely basis, if at
all, nor can there be assurance that labeling claims will be consistent with our anticipated claims or adequate to support
continued adoption of such products. Compliance with FDA or comparable foreign regulatory authority regulations would
require substantial costs, and subject us to heightened scrutiny by regulators and substantial penalties for failure to comply with
such requirements or the inability to market our products. The lengthy and unpredictable premarket clearance or approval
process, as well as the unpredictability of the results of any required clinical studies, may result in our failing to obtain
regulatory clearance or approval to market such products, which would significantly harm our business, results of operations,
reputation, and prospects. If we sought and received regulatory clearance or approval for any of our products, we would be
subject to ongoing FDA obligations and continued regulatory oversight and review, including the general controls listed above
and the FDA's QSRs for our development and manufacturing operations. We could also be subject to additional FDA post-
marketing obligations for such products, any or all of which would increase our costs and divert resources away from other
projects. If we sought and received regulatory clearance or approval and are not able to maintain regulatory compliance with
applicable laws, we could be prohibited from marketing our products for use as, or in the performance of, clinical diagnostics
and be subject to enforcement actions, including warning letters and adverse publicity, fines, injunctions, and civil penalties,
recalls or seizure of products, operating restrictions and criminal prosecution. In addition, we could decide to seek regulatory
clearance or approval for certain of our products in countries outside of the United States. Sales of such products outside the
United States will likely be subject to foreign regulatory requirements, which can vary greatly from country to country. As a
result, the time required to obtain clearances or approvals outside the United States may differ from that required to obtain FDA
clearance or approval and we may not be able to obtain foreign regulatory approvals on a timely basis or at all. In the Europe
European Union, we would need to comply with the new Medical Device Regulation 2017 / 745 and In Vitro Diagnostic
Regulation 2017 / 746, which went into application on May 26, 2021 (postponed from 2020) and May 26, 2022 respectively.
Recently In March 2023, the European Commission Parliament voted to extend extended the transition timelines for MDR
and IVDR for manufacturers of certain medical devices. This will increase the difficulty of regulatory approvals in Europe in
the future. In addition, the FDA regulates exports of medical devices. Failure to comply with these regulatory requirements or
obtain and maintain required approvals, clearances and certifications could impair our ability to commercialize our products for
diagnostic use outside of the United States. Our products could become subject to government regulation as medical devices by
the FDA and other regulatory agencies even if we do not elect to seek regulatory clearance or approval to market our products
for diagnostic purposes, which would adversely impact our ability to market and sell our products and harm our business. If our
products become subject to FDA regulation, the regulatory clearance or approval and the maintenance of continued and post-
market regulatory compliance for such products will be expensive, time-consuming and uncertain both in timing and in
outcome. We do not currently expect our workflow automation and reagent solutions to be subject to the clearance or approval
of the FDA, as it is not intended to be used for the diagnosis, treatment or prevention of disease. However, as we expand our
product line and the applications and uses of our current or products into new fields, certain of our future products could become
subject to regulation by the FDA, or comparable international agencies, including requirements for regulatory clearance or
approval of such products before they can be marketed. Also, even if our products are labeled, promoted and intended as RUO,
the FDA or comparable agencies of other countries could disagree with our conclusion that our products are intended for
research use only or deem our sales, marketing and promotional efforts as being inconsistent with RUO products. For example,
our customers may independently elect to use our RUO labeled products in their own laboratory developed tests (LDTs) for
clinical diagnostic use, which could subject our products to government regulation, and the regulatory clearance or approval and
maintenance process for such products may be uncertain, expensive, and time- consuming. Regulatory requirements related to
marketing, selling and distribution of RUO products could change or be uncertain, even if clinical uses of our RUO products by
our customers were done without our consent. If the FDA or other regulatory authorities assert that any of our RUO products are
subject to regulatory clearance or approval, our business, financial condition, or results of operations could be adversely
affected. The FDA has historically exercised enforcement discretion in not enforcing the medical device regulations against
laboratories offering LDTs. However, on October 3, 2014, the FDA recently proposed a rulemaking issued two draft guidance
documents that set forth would subject LDTs to a new and phased in regulatory framework. This rule, if finalized, or if
there are any other significant changes in the way that the FDA <del>'s regulates any LDTs that our customers develop using</del>
our RUO components could affect our business. If the FDA requires laboratories to undergo premarket review, as
proposed risk-based framework for regulating LDTs, which are designed, manufactured and used comply within-- with a
single laboratory. The draft guidance documents provide the other applicable anticipated details through which the FDA would
<del>propose-requirements in the future, the cost and time required</del> to <del>establish-commercialize</del> an LDT <del>oversight framework-</del>will
increase substantially, including premarket review and may reduce the financial incentive for higher-risk laboratories to
develop LDTs, which such as those that have the same intended use as FDA-approved or eleared companion diagnostic tests
eurrently on the market. In January 2017, the FDA announced that it would could reduce demand for our RUO applications
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not issue final guidance on the oversight of LDTs and manufacturers of products used for LDTs, but would seek further public discussion on an appropriate oversight approach, and give Congress an opportunity to develop a legislative solution. As manufacturers develop more complex diagnostic tests and diagnostic software, the FDA may increase its regulation of LDTs. Any future legislative or administrative rule making or oversight of LDTs, if and when finalized, may impact the sales of our products and how customers use our products, and may require us to change our business model in order to maintain compliance with these laws. We cannot predict how these various efforts will be resolved, how Congress or the FDA will regulate LDTs in the future, or how that regulatory system will impact our business. Changes to the current regulatory framework, including the imposition of additional or new regulations, including regulation of our products, could arise at any time during the development or marketing of our products, which may negatively affect our ability to obtain or maintain FDA or comparable regulatory approval of our products, if required. Further, sales of devices for diagnostic purposes may subject us to additional healthcare regulation and enforcement by the applicable government agencies. Such laws include, without limitation, state and federal antikickback or anti- referral laws, healthcare fraud and abuse laws, false claims laws, privacy and security laws, Physician Payments Sunshine Act and related transparency and manufacturer reporting laws, and other laws and regulations applicable to medical device manufacturers. Additionally, on November 25, 2013, the FDA issued Final Guidance "Distribution of In Vitro Diagnostic Products Labeled for Research Use Only." The guidance emphasizes that the FDA will review the totality of the circumstances when it comes to evaluating whether equipment and testing components are properly labeled as RUO. The final guidance states that merely including a labeling statement that the product is for research purposes only will not necessarily render the device exempt from the FDA's clearance, approval, and other regulatory requirements if the circumstances surrounding the distribution, marketing and promotional practices indicate that the manufacturer knows its products are, or intends for its products to be, used for clinical diagnostic purposes. These circumstances may include written or verbal sales and marketing claims or links to articles regarding a product's performance in clinical applications and a manufacturer's provision of technical support for clinical applications. As part of the United States' efforts to combat COVID- 19 and consistent with Executive Orders 13771 and 13924, the Department of Health and Human Services (HHS) announced rescission of guidance and other informal issuances of the FDA regarding premarket review of LDT absent notice- and- comment rulemaking, stating that, absent notice- and- comment rulemaking, those seeking approval or clearance of, or an emergency use authorization, for an LDT may nonetheless voluntarily submit a premarket approval application, premarket notification or an Emergency Use Authorization request, respectively, but are not required to do so. In November 2021, HHS under the Biden administration issued a statement that withdrew the August 2020 policy announcement, stating that HHS does not have a policy on LDTs that is separate from FDA's longstanding approach. Legislative and administrative proposals to amend the FDA's oversight of LDTs have been introduced in recent years, including the VALID Act. In September 2022, Congress passed the FDA user fee reauthorization legislation without substantive FDA policy riders, including the VALID Act, but Congress may revisit the policy riders and enact other FDA programmatic reforms in the future. It is unclear how future legislation by federal and state governments and FDA regulation will impact the industry, including our business and that of our customers. Any restrictions on LDTs by the FDA, HHS, Congress or state regulatory authorities may decrease the demand for our products. Additionally, compliance with additional regulatory burdens could be time consuming and costly for us, our partners and customers. The adoption of new restrictions on RUO products, whether by the FDA or Congress, could adversely affect demand for our products. Further, we could be required to obtain premarket clearance or approval before we can sell our products to certain customers. Ethical, legal and social concerns surrounding the use of genetic information could reduce demand for our technology. Our products may be used to create DNA sequences of humans, agricultural crops and other living organisms. Our products could be used in a variety of applications, which may have underlying ethical, legal and social concerns. Governmental authorities could, for safety, social or other purposes, impose limits on or implement regulation of the use of gene synthesis. Such concerns or governmental restrictions could limit the use of our DNA synthesis products, which could have a material adverse effect on our business, financial condition and results of operations. In addition, public perception about the safety and environmental hazards of, and ethical concerns over, genetically engineered products and processes could influence public acceptance of our technologies, products and processes. These concerns could result in increased expenses, regulatory scrutiny, delays or other impediments to our programs. We use biological and hazardous materials that require considerable expertise and expense for handling, storage and disposal and may result in claims against us. We work with materials, including chemicals, biological agents, and compounds and DNA samples that could be hazardous to human health and safety or the environment. Our operations and research and development processes also produce hazardous and biological waste products. Federal, state and local laws and regulations govern the use, generation, manufacture, storage, handling and disposal of these materials and wastes. Compliance with applicable environmental laws and regulations is expensive, and current or future environmental laws and regulations may restrict or have a material effect on our operations and research and development programs. If we do not comply with applicable regulations, we may be subject to fines and penalties. In addition, accidental injury or contamination from these materials or wastes could interrupt our commercialization efforts, research and development programs and business operations, as well as cause environmental damage resulting in costly clean- up and liabilities under applicable laws and regulations. Furthermore, environmental laws and regulations are complex, change frequently and have tended to become more stringent. We cannot predict the impact of such changes and cannot be certain of our future compliance. While our property insurance policy provides limited coverage in the event of contamination from hazardous and biological products and the resulting cleanup costs, we do not currently have any additional insurance coverage for legal liability for claims arising from the handling, storage or disposal of hazardous materials. Accordingly, in the event of contamination or injury, we could be liable for damages or penalized with fines in an amount exceeding our resources, and our operations could be suspended or otherwise adversely affected. We may not be able to maintain insurance on acceptable terms, if at all. We could inadvertently develop DNA sequences or engage in other activity that contravenes biosecurity requirements, or regulatory authorities could promulgate

more far reaching biosecurity requirements that our standard business practices cannot accommodate, which could give rise to substantial legal liability, impediments to our business and reputational damage. The Federal Select Agent Program (FSAP) involves rules administered by the Centers for Disease Control and Prevention and the Animal and Plant Health Inspection Service that regulate possession, use and transfer of biological select agents and toxins that have the potential to pose a severe threat to public, animal or plant health or to animal or plant products. We have established a biosecurity program under which we follow biosafety and biosecurity best practices and avoid DNA synthesis activities that implicate FSAP rules; however, we could inadvertently fail to comply with FSAP or other biosecurity rules. In addition, authorities could promulgate new biosecurity requirements that restrict our operations. One or more resulting legal penalties, restraints on our business or reputational damage could have material adverse effects on our business and financial condition. We are currently subject to, and may in the future become subject to additional, U. S. federal and state laws and regulations imposing obligations on how we collect, store and process personal information. Our actual or perceived failure to comply with such obligations could harm our business. Ensuring compliance with such laws could also impair our efforts to maintain and expand our future customer base, and thereby decrease our revenue. In the ordinary course of our business, we currently, and in the future will, collect, store, transfer, use or process sensitive data, including personally identifiable information of employees, and intellectual property and proprietary business information owned or controlled by ourselves and other parties. The secure processing, storage, maintenance, and transmission of this critical information are vital to our operations and business strategy. We are, and may increasingly become, subject to various laws and regulations, as well as contractual obligations, relating to data privacy and security in the jurisdictions in which we operate. The regulatory environment related to data privacy and security is increasingly rigorous, with new and constantly changing requirements applicable to our business, and enforcement practices are likely to remain uncertain for the foreseeable future. These laws and regulations may be interpreted and applied differently over time and from jurisdiction to jurisdiction, and it is possible that they will be interpreted and applied in ways that may have a material adverse effect on our business, financial condition, results of operations and prospects. Compliance with these laws and regulations is difficult, constantly evolving, time consuming, and requires a flexible privacy framework and substantial resources. Compliance efforts will likely be an increasing and substantial cost in the future. We are in a continuing process of clarifying evolving compliance requirements and updating our compliance measures. We currently have in place policies and procedures related to the storage, collection and processing of information, and are in the process of conducting internal and external data privacy reviews, to evaluate and advance our compliance with all applicable data protection laws and regulations. We do not currently have policies and procedures in place for assessing our third-party vendors' compliance with applicable data protection laws and regulations. All of these evolving compliance and operational requirements impose significant costs, such as costs related to organizational changes, implementing additional protection technologies, training employees and engaging consultants, which are likely to increase over time. In addition, such requirements may require us to modify our data processing practices and policies, distract management or divert resources from other initiatives and projects, all of which could have a material adverse effect on our business, financial condition, results of operations and prospects. Any failure or perceived failure by us or our third- party vendors, collaborators, contractors and consultants to comply with any applicable federal, state or similar foreign laws and regulations relating to data privacy and security, or could result in damage to our reputation, as well as proceedings or litigation by governmental agencies or other third parties, including class action privacy litigation in certain jurisdictions, which would subject us to significant fines, sanctions, awards, penalties or judgments, all of which could have a material adverse effect on our business, financial condition, results of operations and prospects. Risks Related to Our Intellectual Property If we are unable to obtain and maintain sufficient intellectual property protection for our products and technology, or if the scope of the intellectual property protection obtained is not sufficiently broad, our competitors could develop and commercialize products similar or identical to ours, and our ability to successfully commercialize our products and build a strong brand identity may be impaired. We rely on patent protection as well as trademark, copyright, trade secret and other intellectual property rights protection and contractual restrictions to protect our proprietary products and technologies. Each of these types of measures provides limited protection and may not adequately protect our rights or permit us to gain or keep any competitive advantage. If we fail to obtain, maintain and protect our intellectual property, third parties may be able to compete more effectively against us. In addition, we may incur substantial litigation costs in our attempts to enforce our right in, defend against challenges to, or recover or restrict use of our intellectual property. To the extent our intellectual property offers inadequate protection, or is found to be invalid or unenforceable, we would be exposed to a greater risk of direct competition. If our intellectual property does not adequately cover competitors' products, our competitive position could be adversely affected, as could our business, financial condition, results of operations and prospects. Both the patent application process and the process of managing patent and other intellectual property disputes can be time- consuming and expensive. Our success depends in large part on our ability to obtain and maintain protection of the intellectual property, particularly patents we may own solely or jointly with, or license from, third parties, in the United States and in other countries of interest, with respect to our products and technologies. However, obtaining and enforcing patents is costly, time-consuming and complex. We may not be able to file and prosecute all necessary or desirable patent applications, or maintain, enforce and license any patents that may issue from such patent applications, at a reasonable cost or in a timely manner or in all jurisdictions. 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, we may not develop additional proprietary products, methods and technologies that are patentable. We may not have the right to control the preparation, filing and prosecution of patent applications, or to maintain the rights to patents licensed from or to third parties; such patents and applications may not be prosecuted and enforced by such third parties in our best interests. The patent position of synthetic biology technology companies is highly uncertain, involves complex legal and factual questions, and has been the subject of much litigation in recent years. Changes in either the patent laws or in interpretations of patent laws in the United States or other jurisdictions may diminish the value of our intellectual property. As a result, the issuance, scope, validity,

enforceability, and commercial value of our patent rights are highly uncertain. It is possible that none of our pending patent applications will result in issued patents in a timely fashion or at all, and even if patents are granted, they may not provide a basis for intellectual property protection of commercially viable products or services, may not provide us with any competitive advantages. We cannot predict the breadth of claims that may be granted or enforced in our patents or in third-party patents. It is possible that third parties will design around our current or future patents such that we cannot prevent such third parties from using similar technologies and commercializing similar products to compete with us. Some of our owned or licensed patents or patent applications may be challenged, and we may not be successful in defending any such challenge. Any successful thirdparty challenge to our patents could result in the narrowing, unenforceability or invalidity of such patents and increased competition with our business. The outcome of patent litigation or other proceeding can be uncertain, and any attempt by us to enforce our patent rights against others or to challenge the patent rights of others may not be successful, or, regardless of success, may take substantial time and result in substantial cost, and may divert our efforts and attention from other aspects of our business. Any of the foregoing events could have a material adverse effect on our business, financial condition and results of operations. The U. S. law relating to the patentability of certain inventions in the synthetic biology technology industry is uncertain and rapidly changing, which may adversely impact our existing patents or our ability to obtain patents in the future. Changes in either the patent laws or interpretation of the patent laws in the United States or in other jurisdictions could increase the uncertainties and costs surrounding the prosecution of patent applications and the enforcement or defense of issued patents. The U. S. Congress has recently passed legislation implementing significant changes to U. S. patent law. Various courts including the U. S. Supreme Court have rendered decisions that impact the patentability and patent eligibility of inventions or discoveries relating to synthetic biology technology, including by narrowing the scope and strength of patent protection in some instances. In light of these developments and depending on actions by the U. S. Congress, the federal courts and the United States Patent and Trademark office (the USPTO), the laws and regulations governing patents could be interpreted and applied, or could change, in unpredictable ways that may have a material adverse effect on our ability to obtain new patents and to defend and enforce our existing patents and patents that we might obtain in the future. We cannot assure you that our patent portfolio will not be negatively impacted by the current uncertain state of the law, new court rulings or changes in guidance or procedures issued by the USPTO or other patent offices around the world. From time to time, the U. S. Supreme Court, other federal courts, the U.S. Congress or the USPTO may change the standards of patentability, scope and validity of patents in areas including synthetic biology technology and any such changes, or any similar adverse changes in the patent laws and procedures of other jurisdictions, could have a negative impact on our business, financial condition, prospects and results of operations. We may not be able to protect our intellectual property rights throughout the world. Filing, prosecuting and defending patents on our products 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. The laws of some foreign countries do not protect intellectual property rights to the same extent as the laws of the United States. We may encounter difficulties in protecting and defending such rights in foreign jurisdictions. Consequently, we may not be able to prevent third parties from practicing our inventions in competition with us in some or 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 and other third parties may use our technologies in jurisdictions where we have not obtained patent protection to develop their own products and technologies and may also export infringing products to territories where we do have patent protection but where enforcement may not be as strong as in the United States. Our patents or other intellectual property rights may not be effective or sufficient to prevent such third-party products from competing with our products. In addition, certain countries have compulsory licensing laws under which a patent owner may be compelled to grant licenses to other parties. Furthermore, many countries limit the enforceability of patents against certain kinds of third parties, including government agencies or government contractors. In these countries, the patent owner may have limited remedies, which could materially diminish the value of any patents. Many companies have encountered significant problems in protecting and defending intellectual property rights in foreign jurisdictions. The legal systems of many other countries do not favor the enforcement of patents and other intellectual property protection, which could make it difficult for us to gain any meaningful competitive advantage from our patents or other intellectual property rights. The legal systems in certain countries may also favor state- sponsored or domestic companies over foreign companies, even though we may have patents and other intellectual property protection in these countries. The absence of harmonized intellectual property protection laws makes it difficult to ensure consistent treatment and enforcement of patent, trade secret, and other intellectual property rights on a worldwide basis. As a result, it is possible that we will not be able to enforce our rights against third parties that misappropriate our proprietary technology or otherwise violate our intellectual property rights in any given country around the world. Proceedings to enforce our patent rights in foreign jurisdictions could result in substantial cost 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, or that are initiated against us, and any damages or other remedies awarded to us may not be commercially meaningful. In addition, changes in the law and legal decisions by courts in foreign countries may affect our ability to obtain adequate protection for our products, services and other technologies and the enforcement of intellectual property. 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. Any of the foregoing events could have a material adverse effect on our business, financial condition, results of operations and prospects. Issued patents covering our products could be found invalid or unenforceable if challenged. Our owned and licensed patents and patent applications may be subject to validity, enforceability and priority disputes. The issuance of a patent is not conclusive as to its inventorship, scope, validity or enforceability. Some of our patents or patent applications (including licensed patents and patent applications) may be challenged in opposition, interference or derivation, ex parte re- examination, inter partes review,

post- grant review or other similar proceedings. Any successful third- party challenge to our patents in this or any other proceeding could result in the unenforceability or invalidity of such patents, which may lead to increased competition to our business, which could have a material adverse effect on our business, financial condition, results of operations and prospects. In addition, if we initiate legal proceedings against a third party to enforce a patent covering our products, the defendant could counterclaim that the patent we are asserting in the proceeding is invalid or unenforceable. In patent litigation in the United States, defendant counterclaims alleging invalidity or unenforceability are commonplace. 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, outside the context of litigation per se. Such proceedings could result in revocation of or amendment to our patents in such a way that they no longer protect our products. The outcome following legal assertions of invalidity and unenforceability during patent litigation is unpredictable. If a defendant or other third party were to prevail on a legal assertion of invalidity or unenforceability, we would lose at least part, and perhaps all, of the patent protection on certain aspects of our products and technologies, which could have a material adverse effect on our business, financial condition, results of operations and prospects. In addition, if the breadth or strength of protection provided by our patents and patent applications is threatened, regardless of the outcome, it could dissuade companies from collaborating with us to license intellectual property or to develop or commercialize current or future products. We may not be aware of all third-party intellectual property rights potentially relevant to our products, technology and services. Publications of discoveries in the scientific literature lag behind the discoveries, and patent applications in the United States and other jurisdictions are typically not published until approximately 18 months after the earliest effective filing date or, in some cases, not until such patent applications issue as patents. We might not have been the first to make the inventions claimed in each of our pending patent applications and we might not have been the first to file patent applications for these inventions. To determine the priority of these inventions, we may have to participate in interference or derivation proceedings in the U. S. or analogous proceedings in non-U. S. jurisdictions, which could result in substantial cost to us and the loss of valuable patent protection. No assurance can be given that other patent applications will not have priority over our patent applications. In addition, changes to the patent laws of the United States allow for various post- grant proceedings that have not been extensively tested, and their outcome is therefore uncertain. Furthermore, if third parties bring these proceedings against our patents, regardless of the merit of such proceedings and regardless of whether we are successful, we could experience significant costs and our management may be distracted. Any of the foregoing events could have a material adverse effect on our business, financial condition, results of operations and prospects. If we are unable to protect the confidentiality of our trade secrets, the value of our technology could be materially adversely affected and our business could be harmed. We rely heavily on trade secrets and confidentiality agreements to protect our unpatented know- how, technology and other proprietary information and to maintain our competitive position. However, trade secrets and know- how can be difficult to protect. In particular, we expect that with respect to our technologies, certain know how will over time be disseminated within the industry through independent development, the publication of journal articles describing the methodology, and the movement of personnel from academic to industry scientific positions. In addition to pursuing patents on our technology, we take steps to protect our intellectual property and proprietary technology by entering into agreements, including confidentiality agreements, non- disclosure agreements and intellectual property assignment agreements, with our employees, consultants, academic institutions, corporate partners and, when needed, our advisers. However, we cannot be certain that such agreements have been entered into with all relevant parties, and we cannot be certain that our trade secrets and other confidential proprietary information will not be disclosed or that competitors or other third parties will not otherwise gain access to our trade secrets or independently develop substantially equivalent information and techniques. For example, any of the foregoing parties may breach the agreements and disclose our proprietary information. including our trade secrets, and we may not be able to obtain adequate remedies for such breaches. Such agreements may not be enforceable or may not provide meaningful protection for our trade secrets or other proprietary information in the event of unauthorized use or disclosure or other breaches of the agreements, and we may not be able to prevent such unauthorized disclosure, which could adversely impact our ability to establish or maintain a competitive advantage in the market, business, financial condition, results of operations and prospects. Monitoring unauthorized disclosure is difficult, and we cannot guarantee that the steps we have taken to prevent such disclosure are adequate. If we were to enforce a claim that a third party had wrongfully obtained and was using our trade secrets, it could be expensive and time- consuming, it could distract our personnel, and the outcome would be unpredictable. In addition, courts outside the United States may be less effective in protecting trade secrets. We also seek to preserve the integrity and confidentiality of our confidential proprietary information by maintaining physical security of our premises and physical and electronic security of our information technology systems, but it is possible that these security measures could be breached. If any of our confidential proprietary information were to be lawfully obtained or independently developed by a competitor or other third party, absent patent protection, we would have no right to prevent such competitor from using that technology or information to compete with us, which could harm our competitive position. Competitors or third parties could purchase our products and attempt to replicate the competitive advantages we derive from our development efforts with their own competitive technologies that fall outside the scope of our intellectual property rights. They might also independently develop our technologies without reference to our trade secrets. If any of our trade secrets were to be disclosed to or independently discovered by a competitor or other third party, it could materially and adversely affect our business, financial condition, results of operations and prospects. We may be subject to claims challenging the inventorship or ownership of our patents and other intellectual property. We may be subject to claims that former employees, collaborators or other third parties have an interest in our owned or in-licensed patents, trade secrets or other intellectual property as an inventor or co-inventor. For example, we may have inventorship or ownership disputes arising from conflicting obligations of employees, consultants or others who are involved in developing our products. In addition, counterparties to our consulting, sponsored research, software development and other agreements may assert that they have an ownership interest in intellectual

property developed under such arrangements. In particular, certain software development agreements pursuant to which third parties have developed parts of our proprietary software may not include provisions that expressly assign to us ownership of all intellectual property developed for us by such third parties. Furthermore, certain of our sponsored research agreements pursuant to which we provide research services for third parties do not assign to us all intellectual property developed under such agreements. As such, we may not have the right to use all such developed intellectual property under such agreements, we may be required to obtain licenses from third parties and such licenses may not be available on commercially reasonable terms or at all, or they may be non- exclusive. If we are unable to obtain such licenses and such licenses are necessary for the development, manufacture and commercialization of our products and technologies, we may need to cease the development, manufacture and commercialization of our products and technologies. Litigation may be necessary to defend against these and other claims challenging inventorship or ownership of our owned or in-licensed patents, trade secrets or other intellectual property. If we fail in defending any such claims, in addition to paying monetary damages, we may lose valuable intellectual property rights. In such an event, we may be required to obtain licenses from third parties and such licenses may not be available on commercially reasonable terms or at all, or they may be non- exclusive. If we are unable to obtain and maintain such licenses, we may need to cease the development, manufacture and commercialization of the relevant products and technologies. Even if we are successful in defending against such claims, litigation could result in substantial costs and be a distraction to management and other employees, and certain customers or partners may defer engaging with us until the particular dispute is resolved. Any of the foregoing could have a material adverse effect on our business, financial condition, results of operations and prospects. We may not be able to protect and enforce our trademarks and trade names, or build name recognition in our markets of interest, thereby harming our competitive position. The registered or unregistered trademarks or trade names that we use may be challenged, infringed, circumvented, declared generic, opposed, invalidated, cancelled or determined to be infringing on or dilutive of other marks. As a consequence, we may not be able to protect, register or maintain our rights in these trademarks and trade names. Third parties may have prior rights in, or have filed, and may in the future file, for registration of, trademarks similar or identical to our trademarks in certain markets of interest that may block our ability to use or to register, or that may limit the scope of protection afforded to, our trademarks and trade names in such markets, thereby impeding our ability to protect, register, maintain or enforce our trademarks and trade names in all markets of interest and to build brand identity and possibly leading to litigation risks and market confusion. If a third party succeeds in registering or developing common law rights in trademarks similar or identical to our trademarks that predate our rights, and if we are not successful in overcoming any objection from the USPTO or such third party based on or in challenging such rights and defending against challenges to our trademarks, we may not be able to use such trademarks to develop brand recognition of our technologies, products or services. A third party with prior rights in a similar or identical trademark could challenge our use and registration of our trademarks and trade names by filing a trademark infringement court action or by seeking to block or cancel any registration for our trademarks through an opposition, cancellation, invalidity or other administrative proceeding. The outcome of any such trademark litigation or other proceeding can be uncertain. If we are unable to successfully defend against any such challenge, in addition to not being able to secure or maintain a registration for our trademark, we may be required, including by court order, to cease all further use of such trademark. Moreover, in the case of a trademark infringement action, a court may require us to issue corrective advertising or to take other steps as the court may deem necessary to remove or reduce the risk of consumer confusion, including changing our company name and rebranding our products. Any of these actions could take time, would be expensive and could lead to a loss of brand recognition or customer confusion as a result. The court may also order us to pay damages (actual damages demonstrated at trial and a disgorgement of our profits), including treble damages and attorneys' fees if the court finds that we willfully infringed such third party trademark, Regardless of success, any such litigation or other proceeding may take substantial time and effort and result in substantial cost, and may divert our efforts and attention from other aspects of our business and could have a material adverse effect on our business, financial condition and results of operations. Further, we have and may in the future enter into agreements with owners of such third party trade names or trademarks to avoid potential trademark litigation, which may limit our ability to use, register or enforce our trade names or trademarks in certain fields of business or in certain markets or which may place certain other restrictions on the use of our trademarks and trade names that could limit our ability to build a strong brand identity. If we are unable to establish name recognition based on our trademarks and trade names, then we may not be able to compete effectively, and our business, financial condition, results of operations and prospects may be adversely affected. Patent terms may be inadequate to protect our competitive position on our workflow automation and reagent solutions for an adequate amount of time. Patents have a limited lifespan. In the United States, if all maintenance fees are timely paid, the basic term of a utility patent is 20 years from its earliest effective non-provisional filing date. In the United States, the basic term of a patent may be lengthened by patent term adjustment, which compensates the patentee for certain administrative delays by the USPTO in examining and granting a patent, and it may be shortened by filing a terminal disclaimer over an earlier expiring patent. Even if a patent covering our products is obtained, once the patent life has expired, we would no longer be able to use the patent to exclude others from making or selling competitive products. If one of our products requires extended development, testing or regulatory review, patent protection for the product might expire soon after or even before the product is 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, which could have a material adverse effect on our business, financial condition and results of operations. We have and may become continue to be involved in lawsuits to defend against third- party claims of infringement, misappropriation or other violations of intellectual property or to protect or enforce our intellectual property, any of which could be expensive, time consuming and unsuccessful, and may prevent or delay our development and commercialization efforts. Our commercial success depends in part on our ability and the ability of future collaborators to develop, manufacture, market and sell our product and use our products and technologies without infringing, misappropriating or otherwise violating the intellectual property rights of third parties. There is a substantial

amount of litigation involving patents and other intellectual property rights in the synthetic biology technology sector, as well as other proceedings for challenging patents, including interference, derivation, interpartes review, post grant review, reexamination proceedings, and pre- and post- grant oppositions. We have and may in the future be exposed to, or threatened with, future litigation by third parties having patent or other intellectual property rights alleging that our products, manufacturing methods, trademarks, software or technologies infringe, misappropriate or otherwise violate their intellectual property rights. Numerous issued patents and pending patent applications that are owned by third parties exist in the fields in which we are developing our products and technologies. It is not always clear to industry participants, including us, the claim scope that may issue from pending patent applications owned by third parties or which patents cover various types of products, technologies or their methods of use or manufacture. Because of the large number of patents issued and patent applications filed in our fields, there may be a risk that third parties, including our competitors, may allege that they have patent rights encompassing our products, technologies or methods and that we are employing their proprietary technology without authorization. If third parties, including our competitors, believe that our products or technologies infringe, misappropriate or otherwise violate their intellectual property, such third parties may seek to enforce their intellectual property, including patents against us by filing an intellectual property- related lawsuit, including a patent infringement lawsuit, against us. Even if we believe third- party intellectual property claims are without merit, there is no assurance that a court would find in our favor on questions of misappropriation, infringement, validity, enforceability, or priority. If any third parties were to assert patents against us and we are unable to successfully defend against any such assertion, we may be required, including by court order, to cease the development and commercialization of the infringing products or technology and we may be required to redesign such products and technologies so they do not infringe such patents, which may not be possible or may require substantial monetary expenditures and time. We could also be required to pay damages, which could be significant, including treble damages and attorneys' fees if we are found to have willfully infringed such patents. We could also be required to obtain a license to such patents in order to continue the development and commercialization of the infringing product or technology; however such a license may not be available on commercially reasonable terms or at all, including because certain of these patents are held by or may be licensed to our competitors. Even if such license were available, it may require substantial payments or cross-licenses under our intellectual property rights, and it may only be available on a nonexclusive basis, in which case third parties, including our competitors, could use the same licensed intellectual property to compete with us. Any of the foregoing could have a material adverse effect on our business, financial condition, results of operation or prospects. We may choose to challenge, including in connection with any allegation of patent infringement by a third party, the validity or enforceability of any thirdparty patent that we believe may have applicability in our field, and any other third-party patent that may be asserted against us. Such challenges may be brought either in court or by requesting that the USPTO, European Patent Office (EPO), or other patent offices' review the patent claims, such as in an ex- parte reexamination, inter partes review, post- grant review proceeding or opposition proceeding. However, there can be no assurance that any such challenge by us will be successful. Even if such proceedings are successful, these proceedings are expensive and may consume our time or other resources, distract our management and technical personnel, and the costs of the proceedings could be substantial. Third parties, including our competitors, could be infringing, misappropriating or otherwise violating our owned and in-licensed intellectual property rights. Monitoring unauthorized use of our intellectual property is difficult and costly. We may not be able to detect unauthorized use of, or take effective steps to enforce, our intellectual property rights. From time to time, we seek to analyze our competitors' products and services, and may in the future seek to enforce our rights against potential infringement, misappropriation or violation of our intellectual property. However, the steps we have taken to protect our intellectual property rights may not be effective to enforce our rights as against such infringement, misappropriation or violation of our intellectual property. Any inability to meaningfully enforce our intellectual property rights could harm our ability to compete and reduce demand for our products and technologies. Litigation proceedings may be necessary for us to enforce our patent and other intellectual property rights. In any such proceedings, a court may refuse to stop the other party from using the technology at issue on the grounds that our owned and in-licensed patents do not cover the technology in question. Further, in such proceedings, the defendant could counterclaim that our intellectual property is invalid or unenforceable and the court may agree, in which case we could lose valuable intellectual property rights, which could allow third parties to commercialize technology or products similar to ours and compete directly with us, without payment to us, or could require us to obtain license rights from the prevailing party in order to be able to manufacture or commercialize our products without infringing such party's intellectual property rights, and if we unable to obtain such a license, we may be required to cease commercialization of our products and technologies, any of which could have a material adverse effect on our business, financial condition, results of operations and prospects. The outcome in any such proceedings is unpredictable. Regardless of whether we are the defending party or the party seeking to enforce rights in any intellectual property- related proceeding, and regardless of outcome, such proceedings that may be necessary in the future could result in substantial costs and diversion of resources and could have a material adverse effect on our business, financial condition, results of operations and prospects. Furthermore, because of the substantial amount of discovery required in connection with intellectual property litigation, there is a risk that some of our confidential information could be compromised by disclosure during this type of litigation. In addition, there could be public announcements of the results of hearings, motions, or other interim proceedings or developments, and if securities analysts or investors perceive these results to be negative, it could have a substantial adverse effect on the price of our common stock. Some of our competitors and other third parties may be able to sustain the costs of such litigation or proceedings more effectively than we can because of their greater financial resources and more mature and developed intellectual property portfolios. We may not have sufficient financial or other resources to adequately conduct these types of litigation or proceedings. Any of the foregoing, or 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, financial condition,

results of operations and prospects. Claims that we have misappropriated the confidential information or trade secrets of third parties could have a similar adverse effect on our business, financial condition, results of operations and prospects. Obtaining and maintaining our patent protection depends on compliance with various required procedures, document submissions, fee payments and other requirements imposed by governmental patent agencies, and our patent protection could be reduced or eliminated for non-compliance with these requirements. Various official fees, including renewal fees, must be paid to the respective patent authorities to apply for, prosecute, and maintain patents and patent applications. The USPTO and other patent authorities also variously require compliance with a number of procedural and substantive provisions under local law and practice during and sometimes after the patent application process. In many cases, an inadvertent lapse in paying a fee or fulfilling another requirement can be cured by payment of a late fee or by other means in accordance with the applicable rules. However, there are situations in which non-compliance can result in abandonment or lapse of the patent or patent application, resulting in partial or complete loss of patent rights in the relevant jurisdiction. In such an event, our competitors may be able to enter the market without infringing our patents and this circumstance would have a material adverse effect on our business, financial condition, results of operations and prospects. We may be subject to claims that our employees, consultants or independent contractors have wrongfully used or disclosed confidential information of third parties or that our employees have wrongfully used or disclosed alleged trade secrets of their former employers. We have employed and expect to employ individuals who were previously employed at universities or at other companies, including our competitors or potential competitors. Although we try to ensure that our employees, consultants, advisors and independent contractors do not use the proprietary information or know-how of others in their work for us, we may be subject to claims that our employees, advisors, consultants or independent contractors have inadvertently or otherwise used or disclosed intellectual property, including trade secrets or other proprietary information, of their former employers or other third parties, or to claims that we have improperly used or obtained such trade secrets. Litigation may be necessary to defend against these claims. If we fail in defending such claims, in addition to paying monetary damages, we may lose valuable intellectual property rights and face increased competition to our business. Any such litigation or the threat thereof may adversely affect our ability to hire employees or contract with advisors, contractors and consultants. A loss of key research personnel work product could hamper or prevent our ability to commercialize potential products, which could harm our business. Even if we are successful in defending against these claims, litigation could result in substantial costs and be a distraction to management. This type of litigation or proceeding could substantially increase our operating losses and reduce our resources available for development activities. Some of our competitors may be able to sustain the costs of this type of litigation or proceedings more effectively than we can because of their substantially greater financial resources. In addition, while it is our policy to require our employees and contractors who may be involved in the conception or development of intellectual property to execute agreements assigning such intellectual property to us, we may be unsuccessful in executing such an agreement with each party who, in fact, conceives or develops intellectual property that we regard as our own. The assignment of intellectual property rights may not be self- executing, or the assignment agreements may be breached, and we may be forced to bring claims against third parties, or defend claims that they may bring against us, to determine the ownership of what we regard as our intellectual property. Furthermore, individuals executing agreements with us may have pre-existing or competing obligations to a third party, such as an academic institution, and thus an agreement with us may be disputed or ineffective in perfecting ownership of inventions developed by that individual, which could have a material adverse effect on our business, financial condition, results of operations, and prospects. Furthermore, we may in the future be subject to claims by former employees, consultants or other third parties asserting an ownership right in our owned or licensed patents or patent applications. An adverse determination in any such proceeding may result in loss of exclusivity or freedom to operate or in patent claims being narrowed, invalidated or held unenforceable, in whole or in part, which could limit our ability to stop others from using or commercializing similar technology, without payment to us, or could limit the duration of the overall patent protection covering our technology and products. Such challenges may also result in our inability to develop, manufacture or commercialize our products without infringing third-party patent rights. Any of the foregoing could harm our business, financial condition, results of operations and prospects. If we cannot license rights to use technologies on reasonable terms, we may not be able to commercialize new products in the future. We may identify third- party technology that we may need to license or acquire in order to develop or commercialize our products or technologies, including our workflow automation and reagent solutions. However, we may be unable to secure such licenses or acquisitions. The licensing or acquisition of third- party intellectual property rights is a competitive area, and several more established companies may pursue strategies to license or acquire third- party intellectual property rights that we may consider attractive or necessary. These established companies may have a competitive advantage over us due to their size, capital resources and greater commercialization capabilities. In addition, companies that perceive us to be a competitor may be unwilling to assign or license rights to us. We also may be unable to license or acquire third- party intellectual property rights on terms that would allow us to make an appropriate return on our investment or at all. In return for the use of a third party's technology, we may agree to pay the licensor royalties based on sales of our products or services. Royalties are a component of cost of products or technologies and affect the margins on our products. We may also need to negotiate licenses to patents or patent applications before or after introducing a commercial product. We may not be able to obtain necessary licenses to patents or patent applications, and our business may suffer if we are unable to enter into the necessary licenses on acceptable terms or at all, if any necessary licenses are subsequently terminated, if the licensor fails to abide by the terms of the license or fails to prevent infringement by third parties, or if the licensed intellectual property rights are found to be invalid or unenforceable. Intellectual property rights do not necessarily address all potential threats. The degree of future protection afforded by our intellectual property rights is uncertain because intellectual property rights have limitations, and may not adequately protect our business or permit us to maintain our competitive advantage. For example: • others may be able to make products that are similar to products and technologies we may develop or utilize similar technology that are not covered by the claims of the

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patents that we own or license now or in the future; • we might not have been the first to make the inventions covered by the
issued patent or pending patent application that we license or may own in the future; • we might not have been the first to file
patent applications covering certain of our or their inventions; • others may independently develop similar or alternative
technologies or duplicate any of our technologies without infringing, misappropriating or otherwise violating our owned or
licensed intellectual property rights; • it is possible that our pending licensed patent applications or those that we may own in the
future will not lead to issued patents; • issued patents that we hold rights to may be held invalid or unenforceable as a result of
legal challenges by our competitors; • our competitors might conduct research and development activities in countries where we
do not have patent rights and then use the information learned from such activities to develop competitive products for sale in
our major commercial markets; • we may not develop additional proprietary technologies that are patentable; • the patents of
others may harm our business; and • we may choose not to file a patent for certain trade secrets or know- how, and a third party
may subsequently file a patent covering such intellectual property. Should any of these events occur, they could materially
adversely affect our business, financial condition, results of operations and prospects. Risks Related to Ownership of Our
Common Stock The market price of our common stock has been highly volatile and may continue to be volatile in the future,
which could result in substantial losses for investors purchasing our common stock in the market. The market price of our
common stock has been highly volatile since our initial public offering and may continue to be volatile. As a result, you may
not be able to sell your common stock at or above the price at which you purchased the stock. Some of the factors that may
cause the market price of our common stock to continue fluctuating include, but are not limited to: actual or anticipated
fluctuations in our operating results, including fluctuations in our quarterly and annual results; • operating expenses being more
than anticipated; our ability to comply with the covenants under our 2022 Loan Agreements; our ability to raise
capital if and when needed; supply chain and production disruption due to our moving primary manufacturing facilities to a
new location our San Diego facility; • the failure or discontinuation of any of our product development and research programs;
· changes in the structure or funding of research at academic and research laboratories and institutions, including changes that
would affect their ability to purchase our products; * the success of existing or new competitive businesses or technologies; *
announcements about new research programs or products of our competitors; • developments or disputes concerning patent
applications, issued patents or other proprietary rights; * the recruitment or departure of key personnel; * litigation and
governmental investigations involving us, our industry or both; • regulatory or legal developments in the United States and other
countries; " variations in market conditions in the synthetic biology technology sector; " investor perceptions of us or our
industry; changes in estimates or recommendations by securities analysts, if any, that cover our common stock or companies
that are perceived to be similar to us; • whether our financial results meet the expectations of securities analysts or investors; •
the level of expenses related to any of our research and development programs or products; actual or anticipated changes in our
estimates as to our financial results or development timelines; • variations in our financial results or those of companies that are
perceived to be similar to us; * the announcement or expectation of additional financing efforts; * sales of our common stock by
us or sales of our common stock by our insiders or other stockholders; • general economic, industry and market conditions,
including deteriorating market conditions due to investor concerns regarding inflation and the outbreak of war in the Ukraine
and the Middle East; and • the pandemics, natural disasters or major catastrophic events. Recently, stock markets in general,
and the market for life sciences technology companies in particular, have experienced significant price and volume fluctuations
that have often been unrelated or disproportionate to changes in the operating performance of the companies whose stock is
experiencing those price and volume fluctuations. Broad market and industry factors may seriously affect the market price of
our common stock, regardless of our actual operating performance. Following periods of such volatility in the market price of a
company's securities, securities class action litigation has often been brought against that company. Because of the potential
volatility of our stock price, we may become the target of securities litigation in the future. Securities litigation could result in
substantial costs and divert management's attention and resources from our business. Our directors, officers and principal
stockholders have significant voting power and may take actions that may not be in the best interests of our other stockholders.
As Following the closing of the Redeemable Convertible Preferred Stock Financing in June 2023, as of December 31, 2023 2022
our directors officers and stockholders holding 5 % or more of our outstanding common stock and their affiliates beneficially
owned over 84-66 % of our outstanding common stock in the aggregate, assuming the conversion of all Redeemable Convertible
Preferred Stock and exercise of all options and warrants beneficially held by such persons. As a result, these stockholders, if they
act together, will be able to exert significant influence over the management and affairs of our company and most matters
requiring stockholder approval, including the election of directors and approval of significant corporate transactions. This
concentration of ownership may have the effect of delaying or preventing a change in control, might adversely affect the market
price of our common stock and may not be in the best interests of our other stockholders. Sales of a substantial number of shares
of our common stock by our existing stockholders could cause the price of our common stock to decline. Sales of a substantial
number of shares of our common stock in the public market could occur at any time or the perception in the market that the
holders of a large number of shares of common stock intend to sell shares and could reduce the market price of our common
stock. Holders of an aggregate of 15,079,329 shares of our common stock issued prior to our initial public offering have
rights, subject to conditions, to require us to file registration statements with the SEC covering their shares or to include their
shares in registration statements that we may file for ourselves or other stockholders . We filed a registration statement on Form
S-3 on July 27,2023 covering 30,042,550 shares of common stock underlying the Redeemable Convertible Preferred Stock and
accompanying Warrants issued in the Private Placement, which was subsequently declared effective on August 3,2023. We are
required to keep this registration statement effective pursuant to the terms of the Registration Rights Agreement dated June
5,2023 that we entered into with the investors in the Private Placement. We also have registered all shares of common stock that
we may issue under our equity compensation and employee stock purchase plans, making them freely tradeable in the public
market upon issuance and, if applicable, vesting, subject to volume limitations applicable to affiliates. Sales of common stock in
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the public market as restrictions end or pursuant to registration rights may make it more difficult for us to sell equity securities in the future at a time and at a price that we deem appropriate. These sales also could cause the trading price of our common stock to fall and make it more difficult for you to sell shares of our common stock. We identified do not expect to pay any dividends for the foreseeable future.Investors may never obtain a material weakness-return on their investment. You should not rely on an investment in our common stock to provide dividend income. We do not anticipate that we will pay any dividends to holders of our common stock in the foreseeable future. Instead, we plan to retain any earnings to maintain and expand our existing operations, fund our research and development programs and continue to invest in our commercial infrastructure.In addition, our current credit facility with MidCap contains, and any future credit facility our or internal control over financial financing reporting we obtain may contain, terms prohibiting or limiting the amount of dividends that may be declared or paid on our common stock. Accordingly, investors must rely on sales of their common stock after price appreciation, which may never occur, as of December 31,2023 and this or the only way to realize any return on othertheir investment material weaknesses could continue to materially impair our ability to report accurate financial information in a timely manner. As a result of December 31, investors seeking cash dividends should not purchase our common stock 2023, the Company's management, with the participation of its principal executive officer and principal. If securities analysts do not continue to publish research or reports about our business or if they publish negative evaluations of our common stock, the price of our common stock could decline. The trading market for our common stock relies in part on the research and reports that industry or securities analysts publish about us or our business. We do not currently have and may never obtain extensive research coverage by industry or securities analysts. If more analysts do not commence coverage of us, the trading price of our common stock could decrease. If one or more of the analysts covering our business downgrade their evaluations of our common stock, the price of our common stock could decline. If one or more of these analysts cease to cover our common stock, we could lose visibility in the market for our common stock, which in turn could cause the price of our common stock to decline. Our directors, officers and principal..... dividends should not purchase our common stock. Our amended and restated bylaws designate a state or federal court located within the State of Delaware as the exclusive forum for substantially all disputes between us and our stockholders, and also provide that the federal district courts will be the exclusive forum for resolving any complaint asserting a cause of action arising under the Securities Act, each of which could limit our stockholders' ability to choose the judicial forum for disputes with us or our directors, officers, stockholders, or employees. Our amended and restated certificate of incorporation specifies that, unless we consent in writing to the selection of an alternative forum, the sole and exclusive forum for (a) any derivative action or proceeding brought on our behalf, (b) any action asserting a claim of breach of a fiduciary duty owed by any of our current or former directors, stockholders, officers, or other employees to us or our stockholders, (c) any action or proceeding asserting a claim arising pursuant to, or seeking to enforce any right, obligation or remedy under, any provision of the Delaware General Corporation Law, our amended and restated certificate of incorporation, or our amended and restated bylaws, (d) any action or proceeding as to which the Delaware General Corporation Law confers jurisdiction on the Court of Chancery of the State of Delaware, or (e) any action or proceeding asserting a claim that is governed by the internal affairs doctrine shall be the Court of Chancery of the State of Delaware (or, if the Court of Chancery does not have jurisdiction, another state court in Delaware or, if no state court in Delaware has jurisdiction, the federal district court for the District of Delaware) and any appellate court therefrom, in all cases subject to the court having jurisdiction over the claims at issue and the indispensable parties; provided that the exclusive forum provision will not apply to suits brought to enforce any liability or duty created by the Exchange Act. Section 22 of the Securities Act creates concurrent jurisdiction for federal and state courts over all such Securities Act actions. Accordingly, both state and federal courts have jurisdiction to entertain such claims. To prevent having to litigate claims in multiple jurisdictions and the threat of inconsistent or contrary rulings by different courts, among other considerations, our amended and restated bylaws also provide that the federal district courts of the United States of America will be the exclusive forum for resolving any complaint asserting a cause of action arising under the Securities Act. Any person or entity purchasing or otherwise acquiring or holding or owning (or continuing to hold or own) any interest in any of our securities shall be deemed to have notice of and consented to the foregoing bylaw provisions. Although we believe these exclusive forum provisions benefit us by providing increased consistency in the application of Delaware law and federal securities laws in the types of lawsuits to which each applies, the exclusive forum provisions may limit a stockholder's ability to bring a claim in a judicial forum of its choosing for disputes with us or any of our directors, officers, stockholders, or other employees, which may discourage lawsuits with respect to such claims against us and our current and former directors, officers, stockholders, or other employees. Our stockholders will not be deemed to have waived our compliance with the federal securities laws and the rules and regulations thereunder as a result of our exclusive forum provisions. Further, in the event a court finds either exclusive forum provision contained in our amended and restated bylaws to be unenforceable or inapplicable in an action, we may incur additional costs associated with resolving such action in other jurisdictions, which could harm our results of operations. Delaware law and provisions in our amended and restated certificate of incorporation and amended and restated bylaws might discourage, delay or prevent a change in control of our company or changes in our management and, therefore, depress the trading price of our common stock. Our status as a Delaware corporation and the anti-takeover provisions of the Delaware General Corporation Law may discourage, delay or prevent a change in control by prohibiting us from engaging in a business combination with an interested stockholder for a period of three years after the person becomes an interested stockholder, even if a change of control would be beneficial to our existing stockholders. In addition, our restated certificate of incorporation and restated bylaws contain provisions that may make the acquisition of our company more difficult, including the following: our board of directors is classified into three classes of directors with staggered three-year terms and directors will only be able to be removed from office for cause by the affirmative vote of holders of at least a majority of the voting power of our then outstanding capital stock; certain amendments to our amended and restated certificate of incorporation will require the approval of a majority of our board of directors and stockholders holding two-thirds of the voting power of our then

outstanding capital stock; \* stockholder- proposed amendments to our amended and restated bylaws will require the approval of a majority of the stockholders entitled to vote, except certain provisions would require the affirmative vote of stockholders holding two-thirds of the voting power of our then outstanding capital stock; • our stockholders will only be able to take action at a meeting of stockholders and will not be able to take action by written consent for any matter; vacancies on our board of directors will be able to be filled only by our board of directors and not by stockholders; only the chair of the board of directors, chief executive officer, president or a majority of the board of directors are authorized to call a special meeting of stockholders; • certain litigation against us can only be brought in Delaware; • our restated certificate of incorporation authorizes undesignated preferred stock, the terms of which may be established and shares of which may be issued, without the approval of the holders of our capital stock; and advance notice procedures apply for stockholders to nominate candidates for election as directors or to bring matters before an annual meeting of stockholders. These anti-takeover defenses could discourage, delay, or prevent a transaction involving a change in control of our company. These provisions could also discourage proxy contests and make it more difficult for stockholders to elect directors of their choosing and to cause us to take other corporate actions they desire, any of which, under certain circumstances, could limit the opportunity for our stockholders to receive a premium for their shares of our capital stock and could also affect the price that some investors are willing to pay for our common stock. Our ability to use net operating losses to offset future taxable income may be subject to certain limitations. As of December 31, 2022 2023, we had U. S. federal and state net operating loss carryforwards (NOLs) of \$ 96-109.6 million and \$ 70-76.0 million, respectively. The federal NOLs of \$1.3 million, generated before January 1, 2018, will begin to expire in 2034, but can be used to offset up to 100 % of taxable income. Amounts generated after December 31, 2017 will carryforward indefinitely, but will be subject to a 80 % taxable income limitation beginning in tax years after December 31, 2020, as provided by the Coronavirus Aid, Relief, and Economic Security Act (CARES Act). State NOLs, if not utilized, will begin to expire in 2029. We may use these NOLs to offset against taxable income for U. S. federal and state income tax purposes. Additionally, Section 382 of the Internal Revenue Code of 1986, as amended (the Code), may limit the NOLs we may use in any year for U. S. federal income tax purposes in the event of certain changes in ownership of our company. A Section 382 "ownership change" generally occurs if one or more stockholders or groups of stockholders who own at least 5 % of a company's stock increase their ownership by more than 50 percentage points over their lowest ownership percentage within a rolling three- year period. Similar rules may apply under state tax laws. We have not conducted a 382 study to determine whether the use of our NOLs is impaired. We may have previously undergone an "ownership change." In addition, future issuances or sales of our stock, including certain transactions involving our stock that are outside of our control, could result in future "ownership changes." "Ownership changes" that have occurred in the past or that may occur in the future could result in the imposition of an annual limit on the amount of pre- ownership change NOLs and other tax attributes we can use to reduce our taxable income, potentially increasing and accelerating our liability for income taxes, and also potentially causing those tax attributes to expire unused. States may impose other limitations on the use of our NOLs. Any limitation on using NOLs could, depending on the extent of such limitation and the NOLs previously used, result in our retaining less cash after payment of U. S. federal and state income taxes during any year in which we have taxable income, rather than losses, than we would be entitled to retain if such NOLs were available as an offset against such income for U. S. federal and state income tax reporting purposes, which could adversely impact our operating results. We are an "emerging growth company" and a "smaller reporting company" and the reduced disclosure requirements applicable to emerging growth companies and smaller reporting companies may make our common stock less attractive to investors. We are an "emerging growth company," as defined in the JOBS Act. For so long as we remain an emerging growth company, we are permitted by SEC rules and plan to rely on exemptions from certain disclosure requirements that are applicable to other SEC registered 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 Sarbanes Oxley Act, 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, 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. As a result, the information we provide stockholders will be different than the information that is available with respect to other public companies. To the extent that we continue to qualify as a "smaller reporting company," as such term is defined in Rule 12b- 2 under the Exchange Act, after we cease to qualify as an emerging growth company, we will continue to be permitted to make certain reduced disclosures in our periodic reports and other documents that we file with the SEC. 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 avail ourselves of this exemption from new or revised accounting standards and, therefore, we will not be subject to the same new or revised accounting standards as other public companies that are not emerging growth companies. As a result, our financial statements may not be comparable to companies that comply with new or revised accounting pronouncements as of public company effective dates. We incur significantly increased costs and management resources as a result of operating as a public company, and our management is required to devote substantial time to new compliance initiatives. As a public company, we incur significant legal, accounting, compliance and other expenses that we did not incur as a private company and these expenses may increase even more after we are no longer an "emerging growth company." Our management and other personnel need to devote a substantial amount of time and incur significant expense in connection with compliance initiatives. As a public company, we also bear all of the internal and external costs of preparing and

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distributing periodic public reports in compliance with our obligations under the securities laws. In addition, regulations and
standards relating to corporate governance and public disclosure, including the Sarbanes Oxley Act, and the related rules and
regulations implemented by the SEC and Nasdaq, have increased legal and financial compliance costs and will make some
compliance activities more time- consuming. We intend to invest resources to comply with evolving laws, regulations and
standards, and this investment will result in increased general and administrative expenses and may divert management's time
and attention from our other business activities. If our efforts to comply with new laws, regulations and standards differ from the
activities intended by regulatory or governing bodies due to ambiguities related to practice, regulatory authorities may initiate
legal proceedings against us, and our business may be harmed. In the future, it may be more expensive or more difficult for us to
obtain director and officer liability insurance as a public company, and we may be required to accept reduced coverage or incur
substantially higher costs to obtain coverage. These factors could also make it more difficult for us to attract and retain qualified
members of our board of directors, particularly to serve on our audit committee and compensation committee, and qualified
executive officers. We may be subject to securities litigation, which is expensive and could divert management attention. The
market price of our common stock has been and may continue to be volatile. The stock market in general, and the Nasdaq Stock
Market and life sciences technology 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 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. Our actual operating results
may differ significantly from any guidance that we provide. From time to time, we may provide guidance in our quarterly
earnings conference calls, quarterly earnings releases, or otherwise, regarding our future performance that represents our
management's estimates as of the date of release. This guidance, which would include forward-looking statements, would be
based on projections prepared by our management. Neither our registered public accountants nor any other independent expert
or outside party would compile or examine the projections. Accordingly, no such person would express any opinion or any other
form of assurance with respect to the projections. Projections are based upon a number of assumptions and estimates that, while
presented with numerical specificity, are inherently subject to significant business, economic, and competitive uncertainties and
eontingencies, many of which are beyond our control and are based upon specific assumptions with respect to future business
decisions, some of which will change. The principal reason that we would release guidance is to provide a basis for our
management to discuss our business outlook with analysts and investors. We do not accept any responsibility for any projections
or reports published by any such third parties. Guidance is necessarily speculative in nature, and it can be expected that some or
all of the assumptions underlying any guidance furnished by us will not materialize or will vary significantly from actual results.
Accordingly, our guidance would be only an estimate of what management believes is realizable as of the date of release. Actual
results may vary from our guidance and the variations may be material. 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 in a timely manner or prevent
fraud, which would adversely affect investor confidence in our company and harm our business. Effective internal controls over
financial reporting are necessary for us to provide reliable financial reports and, together with adequate disclosure controls and
procedures, are designed to prevent fraud. 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 a timely manner, or at all. In
addition, any testing Testing by us conducted in connection with Section 404 (a) of the Sarbanes Oxley Act may reveal
material weaknesses in or our any internal controls over financial reporting related to our limited finance, accounting
and IT staffing levels. While the Company is implementing its remediation plan as further described in Item 9A below.
management cannot provide assurances that the measures that have been taken to date, and are continuing to be
implemented, will be sufficient to remediate the material weakness identified or to avoid potential future materials
weaknesses, subsequent Subsequent testing by our independent registered public accounting firm in connection with Section
404 (b) of the Sarbanes Oxley Act, may reveal continued or additional deficiencies in our internal controls over financial
reporting that are deemed to be significant deficiencies or material weaknesses or that may require prospective or retroactive
changes to our financial statements or identify other areas for further attention or improvement. Ineffective internal controls
could also cause investors to lose confidence in our reported financial information, which could have a negative effect on the
trading price of our common stock. We are will be required to disclose material changes made in our internal controls over
financing reporting and procedures on a quarterly basis and our management <mark>are <del>will be</del>-required to assess the effectiveness of</mark>
these controls annually. We are also Beginning with our second Annual Report on Form 10-K, we will be required to make a
formal assessment of the effectiveness of our internal control over financial reporting, and once we cease to be an emerging
growth company or a non-accelerated filer, we will be required to include an attestation report on internal control over
financial reporting issued by our independent registered public accounting firm. However, for as long as we are an "emerging
growth company "under the JOBS Act <mark>or a non- accelerated filer</mark> , our independent registered public accounting firm will not
be required to attest to the effectiveness of our internal controls over financial reporting pursuant to Section 404 (b) of the
Sarbanes- Oxley Act. To achieve compliance with Section 404 (a) within of the preseribed period Sarbanes- Oxley Act, we
engage will be engaging 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 implement our remediation plan, continue to dedicate internal resources,
potentially engage additional outside consultants and adopt a plan to assess and document the adequacy of our internal control
over financial reporting, continue steps to improve control processes as appropriate, validate through testing that controls are
designed and operating effectively and implement a continuous reporting and improvement process for internal control over
financial reporting. We could be As of December 31, 2023, we have determined that our disclosure controls an and
procedures were not effective due " emerging growth company " for up to five years. An independent assessment of the
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identified material weakness in internal control and financial reporting as described herein. The effectiveness of our
internal controls in future periods is subject to the risk that our controls may become further inadequate because of
changes in conditions. We may be unable to timely remediate our material weakness and may discover additional
weaknesses in our system of internal financial and accounting controls and procedures that could result in a material
misstatement of our financial statements. Our internal control over financial reporting will not prevent or detect
problems all errors and all fraud. A control system, no matter how well designed and operated, can provide only
reasonable, not absolute, assurance that <del>our management the control system</del>'s <del>assessment might objectives will be met,</del>
Because of the inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that
misstatements due to error or fraud will not identify, occur or that all control issues and instances of fraud will be
<del>Undetected---</del> detected material weaknesses. If we are not able to comply with the requirements of Section 404 of the
Sarbanes- Oxley Act in a timely manner, our or if we are unable to maintain proper and effective internal controls over
financial reporting, we may not be able to produce timely and accurate financial statements. If that were to happen, our
investors could lead to lose confidence in our reported financial statement restatements information, the market price of
our stock could decline and require us we could be subject to incur sanctions or investigations by the SEC or the other
expense of remediation regulatory authorities including equivalent foreign authorities. If our estimates or judgments
relating to our critical accounting policies are based on assumptions that change or prove to be incorrect, our results of operation
could fall below our publicly announced guidance or the expectations of securities analysts and investors, resulting in a decline
in the market price of our common stock. The preparation of financial statements in conformity with U. S. GAAP requires
management to make estimates and assumptions that affect the amounts reported in our financial statements and accompanying
notes. We base our estimates on historical experience and estimates and on various other assumptions that we believe to be
reasonable under the circumstances, the results of which form the basis for making judgments about the carrying values of
assets, liabilities, equity, revenue and expenses that are not readily apparent from other sources. For example, in connection with
the implementation of the new revenue accounting standard related to product sales, management makes judgments and
assumptions based on our interpretation of the new standard. The new revenue standard is principle- based and interpretation of
those principles may vary from company to company based on their unique circumstances. It is possible that interpretation,
industry practice and guidance may evolve as we apply the new standard. If our assumptions underlying our estimates and
judgments relating to our critical accounting policies change or if actual circumstances differ from our
assumptions, estimates or iudgements judgments, our operating results may be adversely affected and could fall below our
publicly announced guidance or the expectations of securities analysts and investors, resulting in a decline in the market price of
our common stock, Risks Related to Our Private Placement of Redeemable Convertible Preferred Stock and
Accompanying Warrants Sales of shares of our common stock underlying the Redeemable Convertible Preferred Stock
and Warrants issued in our recent private placement may cause the market price of our shares to decline. In connection
with the Private Placement, we issued 280, 000 shares of Redeemable Convertible Preferred Stock, which are convertible
at any time into shares of our common stock at an agreed conversion rate. In addition, we issued Warrants to purchase
an aggregate of 18, 127, 196 shares of our common stock. We granted the holders of Redeemable Convertible Preferred
Stock and accompanying Warrants certain demand, shelf and "piggyback" registration rights with respect to the
shares of common stock issuable upon conversion of the Redeemable Convertible Preferred Stock and / or exercise of the
accompanying Warrants. Upon the effectiveness of such registration statement on August 3, 2023, the shares of common
stock issuable upon conversion of the Redeemable Convertible Preferred Stock and / or exercise of the accompanying
Warrants may be freely sold in the open market. The sale of a significant amount of these shares in the open market or
the perception that these sales may occur could cause the market price of our common stock to decline or become highly
volatile. The issuance of shares of our Redeemable Convertible Preferred Stock reduced the relative voting power of
holders of our common stock and dilutes the ownership of such holders. Holders of our Redeemable Convertible
Preferred Stock are entitled to vote, on an as- converted basis, together with holders of our common stock on all matters
submitted to a vote of the holders of our common stock. As a result, the issuance of the Redeemable Convertible
Preferred Stock effectively reduces the relative voting power of the holders of our common stock. Moreover, the
conversion of the Redeemable Convertible Preferred Stock to shares of our common stock would dilute the ownership
interest of existing holders of our common stock, and any sales in the public market of our common stock issuable upon
conversion of the Redeemable Convertible Preferred Stock could adversely affect prevailing market prices of our
common stock. Sales by such holders of a substantial number of shares of our common stock in the public market, or the
perception that such sales might occur, could have a material adverse effect on the price of our common stock. The
holders of shares of the Redeemable Convertible Preferred Stock may exercise significant influence over us.
Notwithstanding the application of the conversion blockers contained in the Certificate of Designation that governs the
Redeemable Convertible Preferred Stock and the terms of the Warrants, holders of the Redeemable Convertible
Preferred Stock and accompanying Warrants owned approximately 81 % of our shares of common stock on an as-
converted basis as of September 30, 2023. Holders of our Redeemable Convertible Preferred Stock are entitled to vote,
on an as- converted basis, together with holders of our common stock on all matters submitted to a vote of the holders of
our common stock. As a result, the holders of shares of the Redeemable Convertible Preferred Stock have the ability to
significantly influence the outcome of any matter submitted for the vote of the holders of our common stock. In addition,
under the terms of the Certificate of Designation that governs the Redeemable Convertible Preferred Stock, the
Redeemable Convertible Preferred Stock generally ranks, with respect to liquidation, dividends and redemption, senior
to other securities and, so long as any shares of Redeemable Convertible Preferred Stock remain outstanding, the
approval of the holders of a majority of the Redeemable Convertible Preferred Stock is required (with the exception of
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(i), which requires the consent of a 75 % supermajority of the Redeemable Convertible Preferred Stock) in order for the Company to, among other things, (i) amend, modify or fail to give effect to any right of holders of the Redeemable Convertible Preferred Stock, (ii) change the authorized number of Redeemable Convertible Preferred Stock, (iii) create a new class or series of equity securities or securities convertible into equity securities with equal or superior rights, preferences or privileges to those of the Redeemable Convertible Preferred Stock in terms of liquidation preference or dividend rights, (iv) issue shares of common stock or securities convertible into common stock while we have insufficient shares to effect the conversion of the Redeemable Convertible Preferred Stock into common stock, (v) declare or pay dividends or redeem or repurchase any capital stock (other than certain repurchases from employees, directors, advisors or consultants upon termination of service) or (v) create any U.S. subsidiary that is not majority- owned by the Company, except for joint ventures created in the ordinary course of business or foreign subsidiaries created for regulatory purposes. One of the holders of Redeemable Convertible Preferred Stock was also granted a one-time right to nominate a director, pursuant to which Paul Meister was appointed to the Company's board of directors. Mr. Meister was replaced by Greg Herrema on October 18, 2023. Mr. Herrema joined Andrea Jackson and Todd Nelson on our board of directors as directors affiliated with or appointed by holders of Redeemable Convertible Preferred Stock. Notwithstanding the fact that all directors are subject to fiduciary duties to us and to applicable law, the interests of these directors could potentially differ from the interests of our security holders as a whole or of our other directors. The holders of Redeemable Convertible Preferred Stock have rights, preferences and privileges that are not held by, and are preferential to, the rights of our common stockholders. Upon the consummation of (i) a reorganization, merger or consolidation of the Company, (ii) the sale lease, transfer, or exclusive license or other disposition by the Company or any of its subsidiaries of all or substantially all of the assets of the Company, (iii) the issuance or transfer of shares of capital stock of the Company representing at least 50 % of the voting power of the voting securities of the Company, or (iv) the completion of any tender offer or exchange offer pursuant to which the holders of common stock are permitted to sell their shares equaling 50 % or more of the outstanding common stock for other securities, cash or property (each a " Deemed Liquidation Event ") that occurs prior to the second anniversary of the closing of the Private Placement, the holders of each share of Redeemable Convertible Preferred Stock is entitled to receive, in preference to the holders of the common stock and any junior preferred stock, an amount per share equal to the greater of (a) 200~% multiplied by the sum of the Accrued Value plus an amount equal to all accrued or declared and unpaid dividends on the Redeemable Convertible Preferred Stock that have not previously been added to the Accrued Value, or (b) the amount that such shares would have been entitled to receive if they had converted into common stock immediately prior to such Deemed Liquidation Event, Upon the consummation of a Deemed Liquidation Event that occurs on or after the second anniversary of the closing of the Private Placement, or any voluntary or involuntary liquidation, dissolution, winding up of the Company that is not a Deemed Liquidation Event (each a "Liquidation Event"), the holders of each share of Redeemable Convertible Preferred Stock is entitled to receive, in preference to the holders of the common stock and any junior preferred stock, an amount per share equal to the greater of (1) the sum of the Accrued Value plus an amount equal to all accrued or declared and unpaid dividends on the Redeemable Convertible Preferred Stock that have not previously been added to the Accrued Value, or (2) the amount that such shares would have been entitled to receive if they had converted into common stock immediately prior to such Deemed Liquidation Event or Liquidation Event. These provisions may make it more costly for a potential acquirer to engage in a business combination transaction with us. Provisions that have the effect of discouraging, delaying or preventing a change in control could limit the opportunity for our stockholders to receive a premium for their shares of our common stock and could also affect the price that some investors are willing to pay for our common stock. If there are insufficient assets to pay in full such amounts, then the available assets will be ratably distributed to the holders of the Redeemable Convertible Preferred Stock in accordance with the respective amounts that would be payable on such shares if all amounts payable thereon were paid in full. This will reduce the remaining amount of our assets, if any, available to distribute to holders of our common stock. The holders of Redeemable Convertible Preferred Stock also have a preferential right to receive cumulative dividends on the Accrued Value of each share of Redeemable Convertible Preferred Stock at a rate of 8 % per annum, compounded quarterly whether or not earned or declared, and whether or not there are earnings or profits, surplus or other funds or assets of the Company legally available for the payment of dividends. Dividends on the Redeemable Convertible Preferred Stock are payable in kind and will accrue on the Accrued Value of each share of Redeemable Convertible Preferred Stock until the earlier of conversion, redemption, consummation of a change of control, a liquidation event, or upon failure to mandatorily convert due to the conversion blockers or applicable regulatory restrictions. In addition, the holders of our Redeemable Convertible Preferred Stock also have certain redemption and conversion rights, including the right to request redemption by the Company after the seventh anniversary of the closing of the Private Placement. Our obligations to the holders of Redeemable Convertible Preferred Stock could limit our ability to obtain additional financing or increase our borrowing costs, which could have an adverse effect on our financial condition. These preferential rights could also result in divergent interests between the holders of shares of Redeemable Convertible Preferred Stock and holders of our common stock.