# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Amendment No. 3
To
FORM S-1
REGISTRATION STATEMENT

UNDER
THE SECURITIES ACT OF 1933

# Benitec Biopharma Inc.

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation or organization) 2834 (Primary Standard Industrial Classification Code Number) 84-462-0206 (I.R.S. Employer Identification Number)

3940 Trust Way Hayward, California 94545 (510) 780-0819

(Address, including zip code, and telephone number, including area code, of registrant's principal executive offices)

Dr. Jerel Banks Chief Executive Officer 3940 Trust Way Hayward, California 94545 (510) 780-0819

(Name, address, including zip code, and telephone number, including area code, of agent for service)

Copies to:

Matthew S. O'Loughlin, Esq. Ben D. Orlanski, Esq. Louis Rambo, Esq. Proskauer Rose LLP 2029 Century Park East, Suite 2400 Los Angeles, CA 90067-3010 (310) 557-2900 (310) 557-2193-Facsimile Barry I. Grossman, Esq. Sarah Williams, Esq. Matthew Bernstein, Esq. Ellenoff Grossman & Schole LLP 1345 Avenue of the Americas New York, NY 10105 (212) 370-1300 (212) 370-7889-Facsimile

Approximate date of commencement of proposed sale to public: As soon as practicable after this Registration Statement is declared effective.

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

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

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

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

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

Large accelerated filer □ Accelerated filer □ Smaller reporting company □ Emerging growth company □

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 7(a)(2)(B) of the Securities Act.  $\square$ 

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

The information in this preliminary prospectus is not complete and may be changed. We may not sell these securities until the registration statement filed with the Securities and Exchange Commission is effective. This preliminary prospectus is not an offer to sell these securities and it is not soliciting an offer to buy these securities in any jurisdiction where the offer or sale is not permitted.

**SUBJECT TO COMPLETION, DATED SEPTEMBER 8, 2022** 

**Preliminary Prospectus** 



# \$20,000,000

# 25,380,710 Shares of Common Stock or Pre-funded Warrants to Purchase 25,380,710 Shares of Common Stock and Common Warrants to Purchase 25,380,710 Shares of Common Stock Shares of Common Stock underlying the Pre-funded Warrants and Series 1 Common Warrants

We are offering 25,380,710 shares of our common stock together with common warrants to purchase shares of our common stock (and the shares of common stock that are issuable from time to time upon exercise of the Series 1 Common Warrants (as defined below)). The common warrants will be issued separately but must be purchased together with the common stock and/or the pre-funded warrants (as described below). The combined purchase price for each share of common stock and accompanying common warrant is \$ and for each pre-funded warrant and accompanying common warrant is \$ . The common warrants will be exercisable beginning on the date of issuance (the "Series 1 Common Warrants") or, as applicable (as further described herein), the date on which we (a) receive approval from our stockholders (the "Stockholder Approval") to increase the number of shares of common stock we are authorized to issue (a "Capital Event") and (b) effect such Capital Event by filing with the Secretary of State of the State of Delaware a certificate of amendment to our amended and restated certificate of incorporation (each such date, an "Initial Exercise Date") (the "Series 2 Common Warrants"), at an exercise price of \$ per share and will expire on the five-year anniversary of the Initial Exercise Date.

We are also offering to certain purchasers whose purchase of shares of common stock in this offering would otherwise result in the purchaser, together with its affiliates and certain related parties, beneficially owning more than 4.99% (or, at the election of the purchaser, 9.99%) of our outstanding common stock immediately following the consummation of this offering, the opportunity to purchaser, such purchasers so choose, pre-funded warrants in lieu of shares of common stock that would otherwise result in any such purchaser's beneficial ownership exceeding 4.99% (or, at the election of the purchaser, 9.99%) of our outstanding common stock. Each pre-funded warrant will be exercisable for one share of our common stock and will be exercisable at any time after its original issuance until exercised in full. The purchase price of each pre-funded warrant will be equal to the price at which a share of common stock are sold to the public in this offering, minus \$0.0001, and the exercise price of each pre-funded warrant will be \$0.0001 per share. For each pre-funded warrant we sell, the number of shares of common stock we are offering will be decreased on one-for-one basis. This offering also relates to the shares of common stock issuable upon exercise of the Series 1 Common Warrants or any pre-funded warrants sold in this offering.

Our common stock is listed on The Nasdaq Capital Market under the symbol "BNTC." On September 8, 2022, the last reported sale price of our common stock on The Nasdaq Capital Market was \$0.7880. There is no established public trading market for the pre-funded warrants or common warrants, and we do not expect a market to develop. We do not intend to apply for listing of the pre-funded warrants or common warrants on any securities exchange or other nationally recognized trading system. Without an active trading market, the liquidity of the pre-funded warrants or common warrants will be limited.

The public offering price per share of common stock and/or anypre-funded warrant, together with the common warrant that accompanies common stock or a pre-funded warrant will be determined between us, the underwriter and purchasers based on market conditions at the time of pricing, and may be at a discount to the current market

price. Therefore, the recent market price used throughout this prospectus may not be indicative of the actual public offering price for our common stock, our pre-funded warrants and the common warrants. There is no established public trading market for thepre-funded warrants or common warrants, and we do not expect a market to develop. In addition, we do not intend to apply for the listing of the pre-funded warrants or common warrants on any national securities exchange. Without an active trading market, the liquidity of the common warrants and the pre-funded warrants will be limited.

You should read this prospectus, together with additional information described under the heading "Where You Can Find More Information," carefully before you invest in any of our securities.

Investing in our securities involves a high degree of risk. See "Risk Factors" beginning on page 28.

	Per Share of	Per Pre-Funded	
	Common Stock and	Warrant and	
	Common Warrant(1)	Common Warrant	Total(3)
Public offering price	\$	\$	\$
Underwriting discounts and commissions(2)	\$	\$	\$
Proceeds to us (before expenses)	\$	\$	\$

- (1) Based on an assumed public offering price of \$ per share of common stock and common warrant. The final public offering price per share of common stock or pre-funded warrant, together with the common warrant that accompanies common stock or apre-funded warrant, as the case may be, will be determined by us, the underwriter and the purchasers in this offering and may be a discount to the current market price of our common stock.
- (2) We have agreed to reimburse certain expenses of the underwriter which are not included in the table above. See "Underwriting" for a description of the compensation payable to the underwriter.
- (3) Assumes no pre-funded warrants are issued in lieu of shares of common stock.

We have granted the underwriter a 30-day option to purchase an aggregate of up to 3,807,106 additional shares of our common stock and/or up to 3,807,106 additional common warrants to purchase 3,807,106 shares of our common stock from us at the public offering price per share of common stock and common warrant, less the underwriting discounts and commissions. The underwriter may exercise its option to acquire additional shares for the sole purpose of covering over-allotments. See "Underwriting."

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or passed on the adequacy or accuracy of this prospectus. Any representation to the contrary is a criminal offense.

Delivery of the securities offered hereby is expected to be made on or about , 2022.

Sole Book-Running Manager

, 2022

JMP Securities
A CITIZENS COMPANY
The date of this prospectus is

# TABLE OF CONTENTS

	Page
About This Prospectus	1
Industry and Market Data	2
Trademarks and Tradenames	2
Special Note Regarding Forward-Looking Statements	3
<u>Summary</u>	5
The Offering	23
Summary Consolidated Financial Data	26
Risk Factors	28
Use of Proceeds	34
<u>Capitalization</u>	35
<u>Dilution</u>	36
Market Price of Our Common Stock and Related Stockholder Matters	38
Dividend Policy	38
Principal Stockholders	39
Description of Securities	41
Material United States Federal Income Tax Considerations for Holders of Our Common Stock and Pre-funded Warrants	48
Underwriting	57
Legal Matters	62
<u>Experts</u>	62
Where You Can Find More Information	63
Incorporation of Documents by Reference	63

i

#### ABOUT THIS PROSPECTUS

This prospectus is part of a registration statement on Form S-1 that we filed with the Securities and Exchange Commission ("SEC"). You should rely only on the information contained in this prospectus or contained in any free writing prospectus prepared by or on behalf of us or to which we have referred you. We have not, and the underwriter has not, authorized anyone to provide you with information that is different from that contained in such prospectuses. We are offering to sell securities and are seeking offers to buy securities only in jurisdictions where such offers and sales are permitted. For investors outside the United States: We have not, and the underwriter has not, taken any action that would permit this offering or possession or distribution of this prospectus in any jurisdiction where action for that purpose is required, other than in the United States. Persons outside the United States who come into possession of this prospectus must inform themselves about, and observe any restrictions relating to, the offering of the securities covered hereby and the distribution of this prospectus outside the United States. The information in this prospectus is accurate only as of the date of this prospectus, regardless of the time of delivery of this prospectus or any sale of our securities.

This prospectus and the information incorporated herein by reference contain summaries of certain provisions contained in some of the documents described herein, but reference is made to the actual documents for complete information. All of the summaries are qualified in their entirety by the actual documents. Copies of some of the documents referred to herein have been filed, will be filed or will be incorporated by reference as exhibits to the registration statement of which this prospectus is a part, and you may obtain copies of those documents as described below under the section entitled "Where You Can Find Additional Information." We urge you to read carefully this prospectus, together with the information incorporated herein by reference before deciding whether to participate in the offering hereunder.

We further note that the representations, warranties and covenants made by us in any document that is filed as an exhibit to the registration statement of which this prospectus is a part and in any document that is incorporated by reference herein were made solely for the benefit of the parties to such agreement, including, in some cases, for the purpose of allocating risk among the parties to such agreements, and should not be deemed to be a representation, warranty or covenant to you. Moreover, such representations, warranties or covenants were accurate only as of the date when made. Accordingly, such representations, warranties and covenants should not be relied on as accurately representing the current state of our affairs.

Unless the context otherwise requires, the terms "Benitec," the "Company," "we," "us," "our" and similar terms used in this prospectus refer (i), prior to the Re-domiciliation (as defined herein) to Benitec Biopharma Limited (BBL), an Australian corporation, and its subsidiaries, and (ii), following the Re-domiciliation, to Benitec Biopharma Inc., a Delaware corporation, and its subsidiaries (including Benitec Limited). Any references to "Benitec Limited" or "BBL" refer to Benitec Biopharma Limited, an Australian corporation. On August 14, 2020, BBL reorganized as a Proprietary Limited company and changed its name to Benitec Biopharma Proprietary Limited.

All references to "\$" in this prospectus refer to U.S. dollars. All references to "A\$" in this prospectus mean Australian dollars. As of June 30, 2022, the rate of exchange of U.S. dollars to Australian dollars was 1.44839 AUD.

Our fiscal year-end is June 30. References to a particular "fiscal year" are to our fiscal year ended June 30 of that calendar year.

# INDUSTRY AND MARKET DATA

This prospectus includes information with respect to market and industry conditions and market share from third-party sources or based upon estimates using such sources when available. We believe that such information and estimates are reasonable and reliable. We also believe the information extracted from publications of third-party sources has been accurately reproduced. However, we have not independently verified any of the data from third-party sources. Similarly, our internal research is based upon our understanding of industry conditions, and such information has not been verified by any independent sources.

# TRADEMARKS AND TRADENAMES

We have proprietary and licensed rights to trademarks used in this prospectus which are important to our business, many of which are registered under applicable intellectual property laws. These trademarks include:

- BENITEC BIOPHARMA®
- BENITEC®
- GIVING DISEASE THE SILENT TREATMENT®
- SILENCING GENES FOR LIFE®

Solely for convenience, trademarks and trade names referred to in this prospectus appear without the "®" or "TM" symbols, but such references are not intended to indicate, in any way, that we will not assert, to the fullest extent possible under applicable law, our rights or the rights of the applicable licensor to these trademarks and trade names. We do not intend our use or display of other companies' trade names, trademarks or service marks to imply a relationship with, or endorsement or sponsorship of us by, any other companies. Each trademark, trade name or service mark of any other company appearing in this prospectus is the property of its respective holder.

#### SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

This prospectus contains forward-looking statements that are subject to a number of risks and uncertainties, many of which are beyond our control. Our forward-looking statements relate to future events or our future performance and include, but are not limited to, statements concerning our business strategy, future commercial revenues, market growth, capital requirements, new product introductions, expansion plans and the adequacy of our funding. All statements, other than statements of historical fact included in this prospectus, are forward-looking statements. When used in this prospectus, the words "could," "believe," "anticipate," "intend," "expect," "may," "continue," "predict," "potential," "project," or the negative of these terms, and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain such identifying words. These statements involve known and unknown risks, uncertainties and other important factors that may cause our actual results, levels of activity, performance or achievements to be materially different from the information expressed or implied by these forward-looking statements.

Some of the risks and uncertainties that may cause our actual results, performance or achievements to differ materially from those expressed or implied by forward-looking statements include the following:

- the success of our plans to develop and potentially commercialize our product candidates;
- the timing of the initiation and completion of preclinical studies and clinical trials;
- the timing and sufficiency of patient enrollment and dosing in any future clinical trials;
- · the timing of the availability of data from clinical trials;
- the timing and outcome of regulatory filings and approvals;
- unanticipated delays;
- · sales, marketing, manufacturing and distribution requirements;
- market competition and the acceptance of our products in the marketplace;
- regulatory developments in the United States, France and Canada;
- the development of novel AAV (as defined below) vectors;
- the plans of licensees of our technology;
- the clinical utility and potential attributes and benefits of ddRNAi and our product candidates, including the potential duration of treatment effects and the potential for a "one shot" cure;
- our dependence on our relationships with collaborators and other third parties;
- expenses, ongoing losses, future revenue, capital needs and needs for additional financing, and our ability to access additional financing given market conditions and other factors, including our capital structure;
- our ability to continue as a going concern;
- the length of time over which we expect our cash and cash equivalents to be sufficient to execute on our business plan;
- our intellectual property position and the duration of our patent portfolio;
- the impact of local, regional, and national and international economic conditions and events;
- the impact of the current COVID-19 pandemic, the disease caused by the SARS-CoV-2 virus, which may adversely impact our business and preclinical and future clinical trials; and
- our ability to receive Stockholder Approval and effect the Capital Event.

as well as other risks detailed under the caption "Risk Factors" in this prospectus and in other reports filed with the SEC. Although we believe that we have a reasonable basis for each forward-looking statement contained in this prospectus, we caution you that these statements are based on a combination of facts and important factors

currently known by us and our expectations of the future, about which we cannot be certain. We have based the forward-looking statements included in this prospectus and in the documents incorporated herein by reference on information available to us on the date of this prospectus or on the date thereof. Except as required by law we undertake no obligation to revise or update any forward-looking statements, whether as a result of new information, future events or otherwise. You are advised to consult any additional disclosures that we may make directly to you or through reports that we, in the future, may file with the SEC, including annual reports on Form 10-K, quarterly reports on Form 10-Q and current reports on Form 8-K.

All forward-looking statements included herein or in documents incorporated herein by reference are expressly qualified in their entirety by the cautionary statements contained or referred to elsewhere in this prospectus.

#### SUMMARY

This summary highlights information contained in other parts of this prospectus and in the documents incorporated by reference herein and does not contain all of the information that you should consider in making your investment decision. Before investing in our securities, you should carefully read this entire prospectus and the documents incorporated by reference herein, including our consolidated financial statements and the related notes, and the information set forth under the section titled "Risk Factors," as well as those risk factors included in our Annual Report on Form 10-K for the fiscal year ended June 30, 2022 and any subsequent Quarterly Report on Form10-Q. Some of the statements in this prospectus and the documents incorporated by reference herein constitute forward-looking statements that involve risks and uncertainties. See the information set forth under the section "Special Note Regarding Forward-Looking Statements."

# **Company Overview**

We endeavor to become the leader in discovery, development, and commercialization of therapeutic agents capable of addressing significant unmet medical need via the application of the silence and replace approach to the treatment of genetic disorders.

Benitec Biopharma Inc. ("Benitec" or the "Company" or in the third person, "we" or "our") is a development-stage biotechnology company focused on the advancement of novel genetic medicines with headquarters in Hayward, California. The proprietary platform, called DNA-directed RNA interference, or ddRNAi, combines RNA interference, or RNAi, with gene therapy to create medicines that facilitate sustained silencing of disease-causing genes following a single administration. The Company is developing a ddRNAi-based therapeutic (BB-301) for the treatment of Oculopharyngeal Muscular Dystrophy (OPMD), a chronic, life-threatening genetic disorder.

BB-301 is a ddRNAi-based genetic medicine currently under development by Benitec. BB-301 is an AAV-based gene therapy designed to simultaneously silence the expression of the mutant, disease-causing gene (to slow, or halt, the biological mechanisms underlying disease progression in OPMD) and replace the mutant gene with a wild type gene (to drive restoration of function in diseased cells). This fundamental therapeutic approach to disease management is called "silence and replace." The silence and replace mechanism offers the potential to restore the normative physiology of diseased cells and tissues and to improve treatment outcomes for patients suffering from the chronic, and potentially fatal, effects of OPMD. BB-301 has been granted Orphan Drug Designation in the United States and the European Union.

The targeted gene silencing effects of RNAi, in conjunction with the durable transgene expression achievable via the use of modified viral vectors, imbues the silence and replace approach with the potential to produce long-term silencing of disease-causing genes along with simultaneous replacement of wild type gene function following a single administration of the proprietary genetic medicine. We believe that this novel mechanistic profile of the current and future investigational agents developed by Benitec could facilitate the achievement of robust and durable clinical activity while greatly reducing the frequency of drug administration traditionally expected for medicines employed for the management of chronic diseases. Additionally, the achievement of long-term gene silencing and gene replacement may significantly reduce the risk of patient non-compliance during the course of medical management of potentially fatal clinical disorders.

We will require additional financing to progress our product candidates through to key inflection points.

#### **Recent Developments**

On September 6, 2022, we received a letter from the Listing Qualifications Department of the Nasdaq Stock Market notifying us that the minimum bid price per share for our common stock fell below \$1.00 for a period of 30 consecutive business days and that therefore we did not meet the minimum bid price requirement set forth in Nasdaq Listing Rule 5550(a)(2).

The letter also states that we will be provided 180 calendar days, or until March 6, 2023, to regain compliance with the minimum bid price requirement. In accordance with Rule 5810(c)(3)(A), we can regain compliance if at any time during the 180-day period the closing bid price of our common stock is at least \$1.00 for a minimum of 10 consecutive business days. If by January 6, 2020, we cannot demonstrate compliance with the Rule 5550(a)(2), we may be eligible for additional time. To qualify for additional time, we will be required to meet the continued listing requirement for market value of publicly held shares and all other initial listing standards for The Nasdaq Capital Market, with the exception of the bid price requirement, and we will need to provide written notice of our intention to cure the deficiency during the second compliance period. If we are not eligible for the second compliance period, then the Nasdaq Staff will provide notice that our securities will be subject to delisting. At such time, we may appeal the delisting determination to a Hearings Panel.

We intend to monitor the closing bid price of our common stock and may, if appropriate, consider implementing available options to regain compliance with the minimum bid price requirement. These options include completing a reverse stock split of our common stock for the purpose of meeting the closing bid price requirement. We have previously completed reverse stock splits in connection with complying with our listing requirement and any such option we undertake will not, in of itself, cause us to remain in compliance.

## Our Strengths

We believe that the combination of our proprietary ddRNAi technology and our deep expertise in the design and development of genetic medicines, and specifically ddRNAi-based therapeutics, will enable us to achieve and maintain a leading position in gene silencing and gene therapy for the treatment of human disease. Our key strengths include:

- · A first mover advantage for ddRNAi-based therapeutics;
- A proprietary ddRNAi-based silence and replace technology platform that may potentially enable the serial development of singleadministration therapeutics capable of facilitating sustained, long-term silencing of disease-causing genes and concomitant replacement of wild type gene function;
- A proprietary AAV vector technology which improves the endosomal escape capability of virus produced in insect cells using a baculovirus system. This technology has broad application in AAV-based gene therapies;
- The capabilities to drive the development of a pipeline of programs focused on chronic diseases with either large patient populations, or rare diseases, which may potentially support the receipt of Orphan Drug Designation, including OPMD; and
- A growing portfolio of patents protecting improvements to our ddRNAi, and silence and replace, technology and product candidates through at least 2036, with additional patent life anticipated through at least 2040.

# **Our Strategy**

We endeavor to become the leader in discovery, development, and commercialization of therapeutic agents capable of addressing significant unmet medical need via the application of the silence and replace approach to the treatment of genetic disorders. We apply the following general strategy to drive the Company towards these goals:

· Selectively develop proprietary and partnered programs; and

 Continue to explore and secure research and development partnerships with global biopharmaceutical companies supported by the differentiated nature of our scientific platform and intellectual property portfolio.

Our senior leadership team will continue to explore partnership opportunities with global biopharmaceutical companies, as we expect that the unique attributes of the proprietary ddRNAi and silence and replace approaches, and the breadth of potential clinical indications amenable to our proprietary methods, to support the formation of collaborations over a broad range of diseases with significant unmet medical need.

We seek to actively protect our intellectual property and proprietary technology. These efforts are central to the growth of our business and include:

- Seeking and maintaining patents claiming our ddRNAi and silence and replace technologies and other inventions relating to our specific
  products in development or that are otherwise commercially and/or strategically important to the development of our business;
- Protecting and enforcing our intellectual property rights; and
- · Strategically licensing intellectual property from third parties to advance development of our product candidates.

### Our Technology-ddRNAi and Silence and Replace

Our proprietary technology platforms are designated as DNA-directed RNA interference, or "ddRNAi", and "silence and replace." ddRNAi is designed to produce long-term silencing of disease-causing genes, by combining RNA interference, or RNAi, with viral delivery agents typically associated with the field of gene therapy (i.e., viral vectors). Modified AAV vectors are employed to deliver genetic constructs which encode short hairpin RNAs that are, then, serially expressed and processed to produce siRNA molecules within the transduced cell for the duration of the life of the target cell. These newly introduced siRNA molecules drive long-term, and potentially permanent, silencing of the expression of the disease-causing gene. The silence and replace approach further bolsters the biological benefits of long-term silencing of disease-causing genes by incorporating multifunctional genetic constructs within the modified AAV vectors to create an AAV-based gene therapy agent that is designed to both silence the expression of mutated, disease-causing genes (to slow, or halt, the underlying mechanism of disease progression) and, simultaneously, replace the mutant genes with normal, "wild type" genes (to drive restoration of function in diseased cells). This fundamentally distinct therapeutic approach to disease management offers the potential to restore the underlying physiology of the treated tissues and, in the process, improve treatment outcomes for patients suffering from the chronic and, potentially, fatal effects of diseases like Oculopharyngeal Muscular Dystrophy (OPMD).

Traditional gene therapy is defined by the introduction of an engineered transgene to correct the pathophysiological derangements derived from mutated or malfunctioning genes. Mutated genes can facilitate the intracellular production of disease-causing proteins or hamper the production of critical, life-sustaining, proteins. The introduction of a new transgene can facilitate the restoration of production of normal proteins within the diseased cell, thus, restoring natural biological function. Critically, the implementation of this traditional method of gene therapy cannot eliminate the expression, or the potential deleterious effects of, the underlying mutant gene (as mutant proteins may be continually expressed and aggregate or drive the aggregation of other native proteins within the diseased cell). In this regard, the dual capabilities of the proprietary silence and replace approach to silence a disease-causing gene via ddRNAi and simultaneously replace the wild type activity of a mutant gene via the delivery of an engineered transgene could facilitate the development of differentially efficacious treatments for a range of genetic disorders.

Overview of RNAi and the siRNA Approach

The mutation of a single gene can cause a chronic disease via the resulting intracellular production of a disease-causing protein (i.e. an abnormal form of the protein of interest), and many chronic and/or fatal disorders are known to result from the inappropriate expression of a single gene or multiple genes. In some cases, genetic disorders of this type can be treated exclusively by "silencing" the intracellular production of the disease-causing protein through well-validated biological approaches like RNA interference ("RNAi"). RNAi employs small nucleic acid molecules to activate an intracellular enzyme complex, and this biological pathway temporarily reduces the production of the disease-causing protein. In the absence of the disease-causing protein, normal cellular function is restored and the chronic disease that initially resulted from the presence of the mutant protein is partially or completely resolved. RNAi is potentially applicable to over 20,000 human genes and a large number of disease-causing microorganism-specific genes.

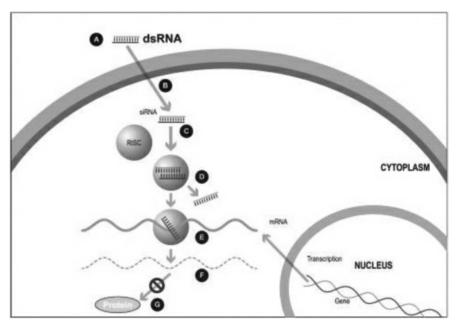


Figure 1. The siRNA Approach

A small double stranded RNA, or dsRNA, molecule (A, Figure 1), comprising one strand known as the sense strand and another strand known as the antisense strand, which are complementary to each other, is synthesized in the laboratory. These small dsRNAs are called small interfering RNAs, or siRNAs. The sequence of the sense strand corresponds to a short region of the target gene mRNA. The siRNA is delivered to the target cell (B, Figure 1), where a group of enzymes, referred to as the RNA-Induced Silencing Complex, or RISC, process the siRNA (C, Figure 1), where one of the strands (usually the sense strand) is released (D, Figure 1). RISC uses the antisense strand to find the mRNA that has a complementary sequence (E, Figure 1) leading to the cleavage of the target mRNA (F, Figure 1). As a consequence, the output of the mRNA (protein production) does not occur (G, Figure 1). Several companies, including Alnylam Pharmaceuticals Inc. ("Alnylam") and Arbutus Biopharma Corp. ("Arbutus"), utilize this approach in their RNAi product candidates.

Importantly, many genetic disorders are not amenable to the traditional gene silencing approach outlined in Figure 1, as the diseased cells may produce a mixture of the wild type protein of interest and the disease-causing mutant variant of the protein, and the underlying genetic mutation may be too small to allow for selective targeting of the disease-causing variant of the protein through the use of siRNA-based approaches exclusively. In these cases, it is extraordinarily difficult to selectively silence the disease-causing protein without simultaneously silencing the wild type intracellular protein of interest whose presence is vital to the conduct of normal cellular functions.

Our proprietary silence and replace technology utilizes the unique specificity and robust gene silencing capabilities of RNAi while overcoming many of the key limitations of siRNA-based approaches to disease management.

In the standard RNAi approach, double-stranded siRNA is produced synthetically and, subsequently, introduced into the target cell via chemical modification of the RNA or alternative methods of delivery. While efficacy has been demonstrated in several clinical indications through the use of this approach, siRNA-based approaches maintain a number of limitations, including:

- Clinical management requires repeat administration of the siRNA-based therapeutic agent for multiple cycles to maintain efficacy;
- Long-term patient compliance challenges due to dosing frequencies and treatment durations;
- Therapeutic concentrations of siRNA are not stably maintained because the levels of synthetic siRNA in the target cells decrease over time:
- Novel chemical modifications or novel delivery materials are typically required to introduce the siRNA into the target cells, making it
  complicated to develop a broad range of therapeutics agents;
- Potential adverse immune responses, resulting in serious adverse effects;
- · Requirement for specialized delivery formulations for genetic disorders caused by mutations of multiple genes; and
- · siRNA acts only to silence genes and cannot be used to replace defective genes with normally functioning genes.

Our Approach to the Treatment of Genetic Diseases—ddRNAi and Silence and Replace

Our proprietary silence and replace approach to the treatment of genetic diseases combines RNAi with wild type gene replacement to drive sustained silencing of disease-causing genes and concomitant restoration of functional wild type genes following a single administration of the therapeutic agent. Benitec employs ddRNAi in combination with classical gene therapy (i.e. transgene delivery via viral vectors) to overcome several of the fundamental limitations of RNAi.

The silence and replace approach to the treatment of genetic disorders employs adeno-associated viral vectors ("AAVs") to deliver genetic constructs which may, after a single administration to the target tissues:

- Chronically express RNAi molecules inside of the target, diseased, cells (to serially silence the intracellular production of mutant, disease-causing, protein and the wild type protein of interest);
- Simultaneously drive the expression of a wild type variant of the protein of interest (to restore native intracellular biological processes);
- AAV vectors can accommodate the multi-functional DNA expression cassettes containing the engineered wild type transgenes and the
  novel genes encoding short hairpinRNA/microRNA molecules (shRNA/miRNA) that are required to support the development of
  therapeutic agents capable of the achievement of the goals of the silence and replace approach to therapy.

Our silence and replace technology utilizes proprietary DNA expression cassettes to foster continuous production of gene silencing shRNAs and wild type proteins (via expression of the wild type transgene). A range of viral and non-viral gene therapy vectors can be used to deliver the DNA construct into the nucleus of the target cell and, upon delivery, shRNA molecules are expressed and subsequently processed by intracellular enzymes into siRNA molecules that silence the expression of the mutant, disease-causing protein (Figure 2).

In the silence and replace approach (Figure 2):

- A DNA construct is delivered to the nucleus of the target cell by a gene therapy vector (A) such as an AAV vector;
- Once inside of the nucleus, the DNA construct drives the continuous production of shRNA molecules (B) which are processed by an enzyme called Dicer into siRNAs (C);
- · The processed siRNA is incorporated into RISC and silences the target gene using the same mechanism shown in Figure 1; and
- When the DNA expression cassette is additionally comprised of a wild type transgene, upon entry of the DNA construct into the nucleus
  of the target cell via the use of the AAV vector, the DNA construct also drives the continuous production of wild type protein (to restore
  native intracellular biological processes).

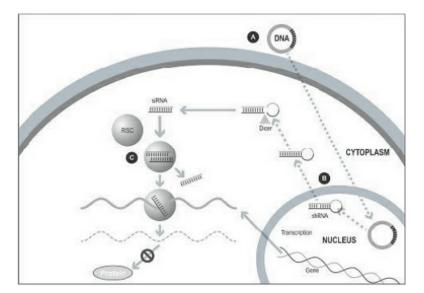


Figure 2. The Silence and Replace Approach

Our strategy is to discover, develop and commercialize treatments that leverage the capabilities of ddRNAi and the silence and replace approach to disease management.

For selected product candidates, at the appropriate stage, we may collaborate with large biopharmaceutical companies to further co-develop and, if approved, commercialize our ddRNAi-based and silence and replace-based products to achieve broad clinical and commercial distribution. For specific clinical indications that we

deem to be outside of our immediate areas of focus, we will continue to out-license, where appropriate, applications of our ddRNAi and silence and replace technology to facilitate the development of differentiated therapeutics, which could provide further validation of our proprietary technology and approach to disease management.

Our cash and cash equivalents will be deployed to advance our product candidateBB-301 for OPMD, including the natural history lead-in study and Phase 1b/2a BB 301 treatment study, for the continued advancement of development activities for other existing and new product candidates, for general corporate purposes and for strategic growth opportunities.

Oculopharyngeal Muscular Dystrophy—OPMD

OPMD is an insidious, autosomal-dominant, late-onset degenerative muscle disorder that typically presents in patients at 40-to-50 years of age. The disease is characterized by progressive swallowing difficulties (dysphagia) and eyelid drooping (ptosis). OPMD is caused by a specific mutation in the poly(A)-binding protein nuclear 1, or PABPN1, gene. OPMD is a rare disease; however, patients have been diagnosed with OPMD in at least 33 countries. Patient populations suffering from OPMD are well-identified, and significant geographical clustering has been noted for patients with this disorder, which could simplify clinical development and global commercialization efforts.

BB-301 is an AAV-based gene therapy designed to both silence the expression of mutated, disease-causing genes (to slow, or halt, the underlying mechanism of disease progression) and simultaneously replace the mutant genes with normal, "wild type" genes (to drive restoration of function in diseased cells). This fundamental therapeutic approach to disease management is called "silence and replace" and this biological mechanism offers the potential to restore the underlying physiology of the treated tissues and, in the process, improve treatment outcomes for patients suffering from the chronic and, potentially, fatal effects of Oculopharyngeal Muscular Dystrophy (OPMD). BB-301 has been granted Orphan Drug Designation in the United States and the European Union.

On July 9, 2018, the Company entered into a License and Collaboration Agreement with Axovant. Pursuant to the Agreement, the Company granted Axovant an exclusive worldwide license to develop, manufacture, and commercialize products containing the Company's product known as BB-301, which was designed for the potential treatment of Oculopharyngeal Muscular Dystrophy. As of September 3, 2019, the License and Collaboration Agreement with Axovant was terminated. As a result, all rights and licenses which Benitec had granted to Axovant to develop and commercialize BB-301 and related gene therapy product candidates terminated. We are now solely responsible for the costs in connection with the development and commercialization of the BB-301 product candidates.

Prior to such termination, the Benitec team endeavored to conduct several additional exploratory nonclinical analyses in order to potentially improve the biological efficacy of BB-301 via further optimization of the route of administration employed to dose the target muscle tissues.

## **Our Pipeline**

The following table sets forth the current product candidate and the development status:

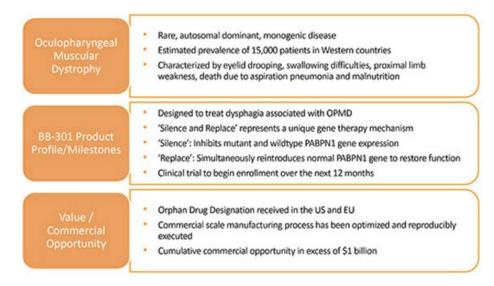
Table 1. Pipeline: Oculopharyngeal Muscular Dystrophy



#### BB-301

We are developing BB-301 for the treatment of Oculopharyngeal Muscular Dystrophy (OPMD), and BB-301 is currently undergoing evaluation in CTA-enabling and IND-enabling studies. BB-301 is the lead investigational agent under development by Benitec, and the key attributes of OPMD and BB-301 are outlined in Figure 3.

Figure 3. Overview of the BB-301 Program



BB-301 is a first-in-class genetic medicine employing the "silence and replace" approach for the treatment of OPMD. OPMD is an insidious, autosomal-dominant, late-onset, degenerative muscle disorder that typically presents in patients at 40-to-50 years of age. The disease is characterized by progressive swallowing difficulties (dysphagia) and eyelid drooping (ptosis). OPMD is caused by a specific mutation in the poly(A)-binding protein nuclear 1 gene (PABPN1).

OPMD is a rare disease, however, patients have been diagnosed with OPMD in at least 33 countries. Patient populations suffering from OPMD are well-identified, and significant geographical clustering has been noted for patients with this disorder. Each of these attributes could facilitate efficient clinical development and global commercialization of BB-301.

PABPN1 is a ubiquitous factor that promotes the interaction between the poly(A) polymerase and CPSF (cleavage and polyadenylation specificity factor) and, thus, controls the length of mRNA poly(A) tails, mRNA export from the nucleus, and alternative poly(A) site usage. The characteristic genetic mutation underlying OPMD results in trinucleotide repeat expansion(s) within exon 1 of PABPN1 and results in an expanded poly-alanine tract at the N-terminal end of PABPN1. The mutation generates a protein with an N-terminal expanded poly-alanine tract of up to 18 contiguous alanine residues, and the mutant protein is prone to the formation of intranuclear aggregates designated as intranuclear inclusions (INIs). The INIs that sequester wild type PABPN1 may contribute to the "loss of function" phenotype associated with OPMD.

No therapeutic agents are approved for the treatment of OPMD. Additionally, there are no surgical interventions available to OPMD patients that modify the natural history of the disease, which is principally comprised of chronic deterioration of swallowing function. BB-301 has received Orphan Drug Designation in the United States and the European Union and, upon achievement of regulatory approval for BB-301 in these respective jurisdictions, the Orphan Drug Designations would provide commercial exclusivity independent of intellectual property protection. While OPMD is a rare medical disorder, we believe the commercial opportunity for a safe and efficacious therapeutic agent in this clinical indication exceeds \$1 billion over the course of the commercial life of the product.

Benitec has previously outlined the core CTA-enabling and IND-enabling studies required by global regulatory agencies to support the initiation of BB-301 clinical trials in OPMD patients, and these studies include a BB-301 Pilot Dosing Study (the "Pilot Dosing Study") in large animals and a classical 12-week GLP Toxicology and Biodistribution Study for BB-301. In these large animal studies, BB-301 is directly injected into the pharyngeal muscles known to underlie the morbidity and mortality which characterizes the natural history of OPMD in human subjects.

As referenced above, the BB-301 Pilot Dosing Study in large animals was the first of twoCTA-enabling and IND-enabling studies conducted by Benitec. This study was carried out under the guidance of the scientific team at Benitec, with key elements of the design and execution of the study conducted in close collaboration with a team of experts in both medicine and surgery that have been deeply engaged in the treatment of OPMD patients for decades. The BB-301 Pilot Dosing Study and the GLP Toxicology and Biodistribution Study for BB-301 were conducted in canine subjects in order to:

- Support the validation and optimization of the newly designed route and method of BB-301 administration,
- Confirm the efficiency of vector transduction and transgene expression in the key tissue compartments underlying the morbidity and mortality that comprises the natural history of OPMD,
- · Confirm the optimal BB-301 doses in advance of initiation of human clinical studies, and
- Facilitate the observation of key toxicological data-points.

The BB-301 Pilot Dosing Study was designed as an 8-week study in Beagle dogs to confirm the transduction efficiency of BB-301 upon administration via direct intramuscular injection into specific anatomical regions of the pharynx through the use of an open surgical procedure. This new method and route of BB-301 administration was developed in collaboration with key surgical experts in the field of Otolaryngology, and this novel method of BB-301 dosing will significantly enhance the ability of treating physicians to accurately administer the AAV-based investigational agent to the muscles that underlie the characteristic deficits associated with disease progression in OPMD. It is important to note that prior BB-301 non-clinical studies have reproducibly validated the robust biological activity achieved following direct intramuscular injection of the AAV-based agent. As an example, direct injection of BB-301 into the tibialis anterior muscles of A17 mice facilitated robust transduction of the targeted skeletal muscle cells and supported complete remission of the OPMD disease phenotype in this animal model.

Benitec conducted the BB-301 Pilot Dosing Study in Beagle dog subjects to demonstrate that direct intramuscular injection of BB-301 via the use of a proprietary dosing device in an open surgical procedure could safely achieve the following goals:

- Biologically significant and dose-dependent levels of BB-301 tissue transduction (i.e., delivery of the multi-functional BB-301 genetic construct into the target pharyngeal muscle cells),
- Broad-based and dose-dependent expression of the three distinct genes comprising the BB-301 gene construct within the pharyngeal muscle cells, and

 Biologically significant levels of target gene knock-down (i.e., inhibition of the expression of the gene of interest) within the pharyngeal muscle cells.

The Pilot Dosing Study evaluated the safety and biological activity of two concentrations of BB-301 (1.0+E13 vg/mL and 3.0+E13 vg/mL) across three distinct doses (1.0+E13 vg/mL and 3.0+E13 vg/mL with a low injection volume, and 3.0+E13 vg/mL with a high injection volume) following direct intramuscular injection into the Hypopharyngeus (HP) muscles and the Thyropharyngeus (TP) muscles of Beagle dogs via the use of a proprietary delivery device employed in an open surgical procedure. The HP muscle in Beagle dogs corresponds to the Middle Pharyngeal Constrictor muscle in human subjects, and the TP muscle in Beagle dogs corresponds to the Inferior Pharyngeal Constrictor muscle in human subjects. BB-301 was injected only on Day 1 of the Pilot Dosing Study, and the corresponding canine pharyngeal muscles were harvested for molecular analyses after 8 weeks of observation post-injection. BB-301 dosing was carried out independently by a veterinary surgeon and an Otolaryngologist with extensive experience regarding the provision of palliative surgical care for OPMD patients.

Molecular analyses have been completed for the canine subjects treated in the BB-301 Pilot Dosing Study. Key interim data-sets derived from the analyses of pharyngeal muscle tissues isolated from the Beagle dog subjects are highlighted below. The final data-set derived from the completed molecular analyses of the pharyngeal muscle tissues of the canine subjects treated on the Pilot Dosing Study will be presented in a peer-reviewed format.

The key interim data-sets are summarized below:

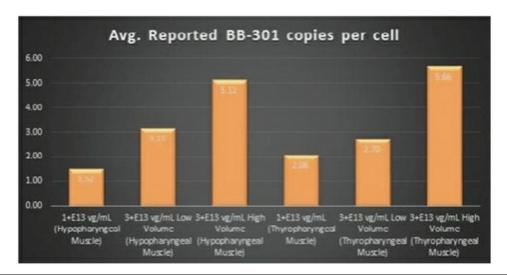


Figure 4. Pharyngeal Muscle Tissue Transduction Levels Achieved by BB-301

# Regarding Gene Expression Levels Observed for BB-301 Within the Pharyngeal Muscle Tissues (Figure 5, Figure 6, Figure 7):

- BB-301 encodes two distinct siRNA species (i.e., siRNA13 and siRNA17) which are each, independently, capable of inhibiting (i.e.,
   "silencing") the expression of the mutant form of the PABPN1 protein and the wild type (i.e., endogenous) form of the PABPN1 protein
   (importantly, the mutant form of the PABPN1 protein underlies the development, and progression, of OPMD).
- BB-301 also codes for a wild type version of the PABPN1 protein whose intracellular expression is unaffected by the inhibitory activities of siRNA13 and siRNA17; this "codon optimized" transcript drives the expression of a PABPN1 protein (i.e., coPABPN1) which serves to replenish the endogenous form of the PABPN1 protein and to replace the mutant form of PABPN1 that underlies the development and progression of OPMD in diseased tissues.
- For comparative purposes, it should be noted that the average range of expression for wild type PABPN1 within the pharyngeal muscle cells of Beagle dogs is 4.5 copies per cell-to-7.8 copies per cell.

Avg. Reported siRNA13 copies per cell 600,000 500,000 400,000 300,000 200,000 100,000 3+E13 vg/ml Low 3+E13 vg/mL Low 1+E13 vg/mL 3+E13 vg/mL High Volume (Hypopharyngea (Hypopharyngeal (Hypopharyngeal (Thyropharyngeal(Thyropharyngeal Muxle) Muscle)

Figure 5. siRNA13 Expression Levels Achieved by BB-301 within Pharyngeal Muscle Tissues



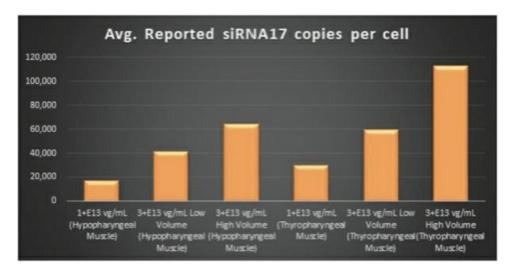
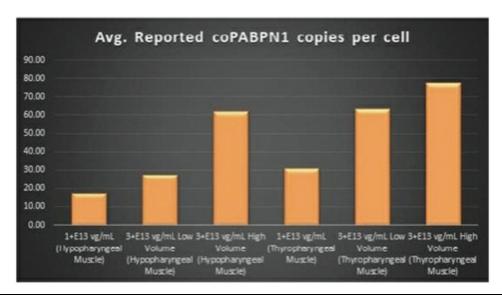


Figure 7. coPABPN1 Expression Levels Achieved by BB-301 within Pharyngeal Muscle Tissues



### Regarding Wild Type PABPN1 Silencing (i.e., target "knock-down") Observed forBB-301 Within the Pharyngeal Muscle Tissues (Figure 8):

- As noted above, BB-301 encodes two distinct siRNA species (i.e., siRNA13 and siRNA17) which are each, independently, capable of
  inhibiting (i.e., "silencing") the expression of all forms of the PABPN1 protein (siRNA13 and siRNA17 silence the expression of both
  wild type PABPN1 (wtPABPN1) and mutant PABPN1).
- While the Beagle dog subjects treated in the BB-301 Pilot Dosing Study do not express mutant PABPN1, the level of BB-301-driven
  gene silencing for the PABPN1 target can be indirectly assessed in these study subjects due to the equivalent inhibitory effects of
  siRNA13 and siRNA17 on both wtPABPN1 and mutant PABPN1.
- Thus, the wtPABPN1 silencing activity observed in the BB-301 Pilot Dosing Study serves as a surrogate for the silencing activity that would be anticipated in the presence of mutant PABPN1.
- BB-301 has been evaluated in prior non-clinical studies in animals that express mutant PABPN1 and, as a result, manifest the
  symptomatic phenotype of OPMD; in the symptomatic animal model of OPMD (i.e. the A17 mouse model), the achievement of
  PABPN1 silencing levels of 31% inhibition (or higher) following BB-301 administration led to resolution of OPMD disease symptoms
  and the elimination of the histopathological hallmarks of OPMD.

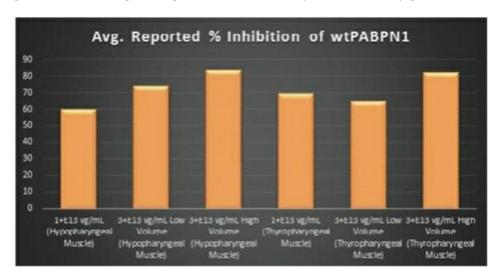


Figure 8. PABPN1 Silencing (i.e., "target knock-down") Achieved by BB-301 within Pharyngeal Muscle Tissues

There are key methodological distinctions between the current BB-301 Pilot Dosing Study conducted by Benitec as compared to the prior BB-301 Beagle dog dosing study carried out independently by the previous BB-301 licensee. The BB-301 dosing study conducted by the prior BB-301 licensee employed non-ideal routes and methods of BB-301 administration to the target pharyngeal muscle tissues and employed similarly limited analytical methods at the completion of the dosing phase of the study. Subsequently, the Benitec team worked to

optimize the route and method of administration of BB-301 and to refine the core analytical methods employed following the completion of dosing of the large animal subjects.

The current proprietary method of BB-301 delivery to the key pharyngeal muscles of study subjects, and the proprietary molecular analytical methods employed to assay the pharyngeal muscle tissues of study subjects, with both methods having been developed by the Benitec team, led to the observation of broad-based transduction of the targeted pharyngeal muscle tissues (Figure 9, represents individual sections of the TP muscle following BB-301 dosing). Critically, the Benitec-developed methods also facilitated the achievement of a228-fold improvement (+22,647%) in BB-301 transduction of the HP muscle and a 113-fold improvement (+11,163%) in BB-301 transduction of the TP muscle relative to the levels of BB-301 transduction observed by the previous BB-301 licensee at identical BB-301 doses in identical canine study populations (Figure 10).

Figure 9. BB-301 Transduction Levels Achieved for Individual Sections of the TP Muscle Following BB-301 dosing

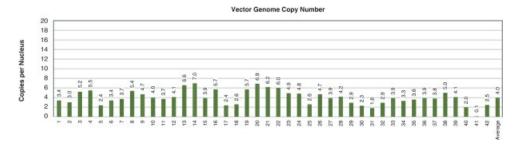
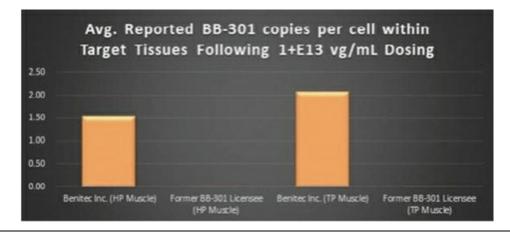


Figure 10. Impact of the Methodological Improvements to the BB-301 Large Animal Dosing Study Design on the Relative Pharyngeal Muscle Tissue Transduction Levels Achieved by Benitec vs. the Former BB-301 Licensee



Following the disclosure of the positive interim BB-301 Pilot Dosing Study results, Benitec completed pre-CTA and pre-IND meetings with regulatory agencies in France, Canada, and the United States.

#### Summary of Regulatory Interactions:

- Benitec successfully completed the regulatory interactions required to support initiation of the BB-301 clinical development program in 2022
- Successful regulatory engagement comprised the completion of the following meetings:
  - · Pre-Clinical Trial Application (Pre-CTA) Consultation Meeting with Health Canada
  - Scientific Advice Meeting with The National Agency for the Safety of Medicines and Health Products in France (L'Agence nationale de sécurité du médicament et des produits de santé or "ANSM")
  - Type C Meeting with the U.S. Food and Drug Administration (the "FDA")

# Benitec will begin the clinical development program for BB-301 in 2022.

#### Summary of the BB-301 Clinical Development Program:

- The BB-301 clinical development program will begin in 2022, and the conduct of the development program will comprise approximately 76-weeks of follow-up for each OPMD study participant, inclusive of:
  - 6-month pre-treatment observation periods employing quantitative radiographic imaging techniques for evaluation of the baseline disposition and natural history of OPMD-derived dysphagia in each study participant
  - 1 day of BB-301 dosing to initiate participation in the Phase 1b/2a single-arm, open-label, sequential, dose escalation cohort study
  - 52-weeks of post-dosing follow-up for conclusive evaluation of the primary and secondary endpoints of the Phase 1b/2aBB-301 treatment study
- The OPMD Natural History Study will begin in the second half of 2022, and this study will facilitate the characterization of OPMD
  patient disposition at baseline and assess subsequent rates of progression of dysphagia (swallowing impairment) in subjects with OPMD
  via the use of quantitative radiographic measures of global swallowing function and pharyngeal constrictor muscle function along with
  clinical assessments and patient-reported self-assessments of swallowing function
  - · Videofluoroscopic Swallowing Studies (VFSS) will be conducted to complete the following methodological assessments:
    - Dynamic Imaging Grade of Swallowing Toxicity Scale (DIGEST)
    - Pharyngeal Area at Maximum Constriction (PhAMPC)
    - Pharyngeal Constriction Ratio (PCR)
  - Clinical measures of global swallowing capacity and oropharyngeal dysphagia will be carried out
  - · Patient-reported measures of oropharyngeal dysphagia will be assessed
- The natural history of dysphagia observed for each OPMD study participant, as characterized by the quantitative radiographic measures
  and the clinical and patient self-reported assessments outlined above, will serve as the baseline for comparative assessments of safety
  and efficacy of BB-301 upon rollover of OPMD study subjects from the Natural History Study into the Phase 1b/2aBB-301 treatment
  study

- Upon the achievement of 6-months of follow-up in the Natural History Study, OPMD Natural History Study participants can become eligible for enrollment into the Phase 1b/2a treatment study with the investigational genetic medicine, BB-301, which uses an AAV9-based gene therapy approach for the treatment of OPMD-derived dysphagia
  - This first-in-human (FIH) clinical trial will be a Phase 1b/2a, open-label, dose escalation study to evaluate the safety and clinical activity of intramuscular doses of BB-301 administered to the pharyngeal muscles of subjects with OPMD
- Upon rollover from the Natural History Study into the Phase 1b/2a BB-301 treatment study, thefollow-up of OPMD study participants
  will continue for 52-weeks, and the primary endpoints (safety and tolerability) and secondary endpoints (comprising the quantitative
  radiographic measures of global swallowing function and pharyngeal constrictor muscle function, and the clinical and patient-reported
  assessments noted above) will be evaluated during each 90-day period following Day 1 (Day 1 represents the day of BB-301
  intramuscular injection).

# **Summary of Risk Factors**

An investment in our securities involves a high degree of risk. Any of the factors set forth herein under "Risk Factors" and the risk factors included in our Annual Report on Form 10-K for the fiscal year ended June 30, 2022 and any subsequent Quarterly Report on Form10-Q may limit our ability to successfully execute our business strategy. You should carefully consider all of the information set forth in this prospectus and in the documents incorporated by reference herein and, in particular, should evaluate the specific factors set forth herein under "Risk Factors" and the risk factors included in our Annual Report on Form 10-K for the fiscal year ended June 30, 2022 and any subsequent Quarterly Report on Form10-Q in deciding whether to invest in our securities. These risk factors include, among others:

- We have incurred significant losses since inception and anticipate that we will continue to incur losses for the foreseeable future. If we are unable to achieve or sustain profitability, the market value of our common stock will likely decline;
- We have never generated any revenue from product sales and may never be profitable;
- Even if this offering is successful, we will need to continue our efforts to raise additional funding, which may not be available on acceptable terms, or at all. Failure to obtain capital when needed may negatively impact our ability to continue as a going concern;
- Our auditors' report expresses substantial doubt about our ability to continue as a going concern;
- Our product candidates are based on ddRNAi and silence and replace technology. Currently, no product candidates utilizing ddRNAi
  technology or silence and replace technology have been approved for commercial sale and our approach to the development of ddRNAi
  technology and silence and replace technology may not result in safe, effective or marketable products;
- We are early in our product development efforts and our lead product candidate, BB-301, is in preclinical development. We may not be able to obtain regulatory approvals for the commercialization of BB-301 or other product candidates;
- Issues that may impact delivery of our therapeutics to the cell could adversely affect or limit our ability to develop and commercialize product candidates;
- We face competition from entities that have developed or may develop product candidates for our target disease indications, including companies developing novel treatments and technology platforms based on modalities and technology similar to ours;

- If we are unable to obtain or protect sufficient intellectual property rights related to our product candidates, we may not be able to obtain
  exclusivity for our product candidates or prevent others from developing similar competitive products;
- · You will experience immediate dilution as a result of this offering and may experience additional dilution in the future;
- · There is no public market for the pre-funded warrants or the common warrants being offered by us in this offering;
- Holders of the pre-funded warrants or the common warrants offered hereby will have no rights as common stockholders with respect to
  the common stock underlying the pre-funded warrants or the common warrants, as applicable, until such holders exercise their
  pre-funded warrants or common warrants, as applicable, and acquire our common stock, except as otherwise provided in thepre-funded
  warrants or the common warrants, as applicable;
- Provisions of the common warrants and the pre-funded warrants offered by this prospectus could discourage an acquisition of us by a
  third party;
- The common warrants are speculative in nature;
- · We may not receive any additional funds upon the exercise of the pre-funded warrants and the common warrants;
- · Significant holders or beneficial holders of our common stock may not be permitted to exercise warrants that they hold;
- This offering could cause our stock price to fall, which could result in us being delisted from The Nasdaq Capital Market;
- · Future sales of our common stock, or the perception that such sales may occur, could depress the trading price of our common stock;
- · We have broad discretion in the use of the net proceeds we receive from this offering and may not use them effectively; and
- We do not have enough authorized shares of common stock to issue upon the exercise of all of the common warrants and we require Stockholder Approval of the Capital Event and the subsequent filing with the Secretary of State of the State of Delaware a certificate of amendment to our amended and restated certificate of incorporation to effect such Capital Event in order to have a sufficient number of shares of common stock available for issuance upon exercise of the Series 2 Common Warrants. There is no assurance that such Stockholder Approval will be obtained which could materially and adversely impact the rights of the Series 2 Common Warrant holders.

#### COVID-19 Pandemic

COVID-19 has been declared a pandemic by the World Health Organization and has spread to nearly every country, including Australia and the United States. The impact of this pandemic has been, and will likely continue to be, extensive in many aspects of society, which has resulted in, and will likely continue to result in, significant disruptions to businesses and capital markets around the world. The extent to which the coronavirus impacts us will depend on future developments, which are highly uncertain and cannot be predicted, including new information which may emerge concerning the severity of the coronavirus and its variants, and the actions to contain the coronavirus or treat its impact, including the effectiveness and adoption of vaccines for the virus, among others.

Certain elements of our research and development efforts are conducted globally, including the ongoing development of our silence and replace therapeutic for the treatment of Oculopharyngeal Muscular Dystrophy

(OPMD), and will be dependent upon our ability to initiate preclinical and clinical studies despite the ongoing COVID-19 pandemic.

As we continue to actively advance our development programs, including the completion of our ongoing Toxicology and Biodistribution study for BB-301, we are in close contact with our principal investigators and preclinical trial sites, which are primarily located in France, and are assessing the impact of COVID-19 on our studies and the expected development timelines and costs on an ongoing basis. In light of developments relating to the COVID-19 global pandemic since the beginning of the outbreak, the focus of healthcare providers and hospitals on fighting the virus, and consistent with the FDA's industry guidance for conducting clinical trials, we have experienced delays to the original timeline regarding the initiation and anticipated completion of the ongoing BB-301 Clinical Trial Application (CTA)-enabling and Investigational New Drug Application (IND)-enabling development work. The initiation of the BB-301 Pilot Dosing Study in Beagle dogs, which represents a key component of the CTA-enabling and IND-enabling work, was delayed by several months, however, the study has been completed without incident. In addition, theBB-301 GLP Toxicology and Biodistribution Study in Beagle dogs, which represents another key component of the CTA-enabling and IND-enabling work, is nearing completion. The acquisition of chemical reagents, biological reagents and laboratory supplies which are essential for the conduct of basic laboratory research, the conduct of nonclinical studies and the completion of GMP manufacturing of BB-301, has also become challenging due to the disruption of global supply chains inherent to the production of these materials. We will continue to evaluate the impact of the COVID-19 pandemic on our business and we expect to reevaluate the timing of our anticipated preclinical and clinical milestones as we learn more and the impact of COVID-19 on our industry becomes clearer.

We have also implemented a halt of non-essential business travel and a rotation system whereby staff work from home and attend the laboratory on designated days which may result in a reduction of laboratory work. As we transition our employees back to our premises, there is a risk that COVID-19 infections occur at our offices or laboratory facilities and significantly affect our operations. Additionally, if any of our critical vendors are impacted, our business could be affected if we become unable to procure essential equipment in a timely manner or obtain supplies or services in adequate quantities and at acceptable prices.

# **Corporate Information**

We were incorporated as a Delaware corporation on November 22, 2019 and completed the re-domiciliation (the "Re-domiciliation") on April 15, 2020. Our predecessor, Benitec Limited, was incorporated under the laws of Australia in 1995. Our common stock is traded on The Nasdaq Capital Market under the symbol "BNTC." Our principal executive offices are located at 3940 Trust Way, Hayward, California 94545. Our telephone number is (510) 780-0819, and our Internet website is www.benitec.com. The information on, or that can be accessed through, our website is not part of this prospectus and is not incorporated by reference herein.

#### Implications of Being a Smaller Reporting Company

We are a "smaller reporting company" and will remain a smaller reporting company while either (i) the market value of our stock held by non-affiliates was less than \$250 million as of the last business day of our most recently completed second fiscal quarter or (ii) our annual revenue was less than \$100 million during our most recently completed fiscal year and the market value of our stock held by non-affiliates was less than \$700 million as of the last business day of our most recently completed second fiscal quarter. We may rely on exemptions from certain disclosure requirements that are available to smaller reporting companies, including many of the same exemptions from disclosure requirements as those that are available to emerging growth companies, such as reduced disclosure obligations regarding executive compensation in our registration statements, prospectus and our periodic reports and proxy statements. For so long as we remain a smaller reporting company, we are permitted and intend to rely on exemptions from certain disclosure and other requirements that are applicable to other public companies that are not smaller reporting companies.

#### THE OFFERING

Common stock offered by us

25,380,710 shares (or 29,187,816 shares, if the underwriter's option to purchase additional shares is exercised in full).

Pre-funded warrants offered by us

We are also offering to certain purchasers whose purchase of shares of common stock in this offering would otherwise result in the purchaser, together with its affiliates and certain related parties, beneficially owning more than 4.99% (or, at the election of the purchaser, 9.99%) of our outstanding common stock immediately following the consummation of this offering, the opportunity to purchase, if such purchasers so choose, pre-funded warrants in lieu of shares of common stock that would otherwise result in any such purchaser's beneficial ownership exceeding 4.99% (or, at the election of the purchaser, 9.99%) of our outstanding common stock. Each pre-funded warrant will be exercisable for one share of our common stock. The exercise price of each pre-funded warrant will equal \$0.0001 per share. Each pre-funded warrant will be exercisable upon issuance and will not expire prior to exercise. We are offering up to 25,380,710 shares of common stock and up to 25,380,710 pre-funded warrants, in the aggregate not exceeding more than a total of 25,380,710 shares of common stock and pre-funded warrants. For each pre-funded warrant we sell, the number of shares of common stock we are offering will be decreased on a one-for-one basis. This prospectus also relates to the offering of the shares of common stock issuable upon exercise of the pre-funded warrants.

Common warrants offered by us

We are issuing to purchasers of shares of our common stock and/orpre-funded warrants in this offering a common warrant to purchase up to one share of our common stock for each share and/or pre-funded warrant purchased in this offering for a combined purchase price of \$ for shares and accompanying common warrants and \$ for pre-funded warrants and accompanying common warrants. Because a common warrant to purchase share(s) of our common stock is being sold together in this offering with each share of common stock and, in the alternative, each pre-funded warrant to purchase one share of common stock, the number of common warrants sold in this offering will not change as a result of a change in the mix of the shares of our common stock and pre-funded warrants sold.

A portion of the common warrants, the Series 1 Common Warrants, will be exercisable on the date of closing at an exercise price of \$ per share and will expire on the five-year anniversary of such closing. As more fully described in the Form of Common Warrant, which is filed as an exhibit to the registration statement of which this prospectus forms a part, the remainder of the common warrants that are not so exercisable on the date of closing, the Series 2 Common Warrants, will become exercisable at an exercise price of \$ per share on the date on which we (a) receive Stockholder Approval for a Capital Event and (b) effect such Capital Event by filing with the Secretary of State of the State of Delaware a certificate

of amendment to our amended and restated certificate of incorporation, and will expire on the five-year anniversary of the date such certificate of amendment becomes effective. See "Description of Securities - Common Warrants" for a more detailed discussion.

No fractional shares of common stock will be issued in connection with the exercise of a common warrant. In lieu of fractional shares, we will round down to the next whole share. See "Description of Securities — Common Warrants." This prospectus also relates to the offering of the shares of common stock issuable upon exercise of the Series 1 Common Warrants.

Option to purchase additional shares and/or common warrants

We have granted the underwriter a 30-day option to purchase an aggregate of up to 3,807,106 additional shares of our common stock and/or up to 3,807,106 additional common warrants to purchase 3,807,106 shares of our common stock from us at the public offering price per share of common stock and common warrant, less the underwriting discounts and commissions. The underwriter may exercise its option to acquire additional shares for the sole purpose of covering over-allotments. See "Underwriting."

Common stock outstanding prior to this offering 8,171,690 shares.

this offering

Common stock to be outstanding immediately following 33,552,400 shares (or 37,359,506 shares, if the underwriter's option to purchase additional shares is exercised in full) assuming we sell only shares of common stock in this offering and assuming none of the common warrants issued in this offering are exercised.

Use of proceeds

We estimate that the net proceeds from this offering will be approximately \$18,179,836 (\$20,969,835 if the underwriter's option to purchase additional shares and/or common warrants is exercised in full), based on an assumed public offering price per share of common stock and common warrant of \$0.7880, the last reported sale price of our common stock on the Nasdaq Capital Market on September 8, 2022, after deducting the estimated underwriting discounts and commissions and estimated offering expenses payable by us and assuming we sell only shares of common stock in this offering and no exercise of the common warrants. We intend to use the net proceeds from this financing for the clinical development of BB-301, including the natural history lead-in study and the Phase 1b/2aBB-301 treatment study, for the continued advancement of development activities for other existing and new product candidates, for general corporate purposes, and for strategic growth opportunities. See "Use of Proceeds."

Dividend policy

For the foreseeable future, we currently intend to retain all available funds and any future earnings to support our operations and to finance the growth and development of our business.

Risk factors An investment in our securities involves a high degree of risk. You should read the "Risk

Factors" section of this prospectus, as well as those risk factors included in our Annual Report on Form 10-K for the fiscal year ended June 30, 2022 and any subsequent Quarterly Report on Form 10-Q, for a discussion of factors to consider carefully before deciding to

invest in our securities.

Nasdaq symbol "BNTC."

No listing of pre-funded warrants or common warrants We do not intend to apply for listing of the pre-funded warrants or the common warrants on

any national securities exchange or trading system. Without a trading market, the liquidity of

the pre-funded warrants and common warrants will be extremely limited.

The number of shares of common stock to be outstanding after this offering is based on 8,171,690 shares of common stock outstanding at September 2, 2022 and excludes as of such date the following:

shares of common stock that may be issued upon exercise of pre-funded warrants and common warrants issued in this offering;

- 738,064 shares of common stock issuable upon exercise of stock options outstanding as of September 2, 2022 at a weighted-average exercise price of \$6.95 per share; and
- 107,095 shares of common stock issuable upon the exercise of warrants exercisable for shares of common stock outstanding as of September 2, 2022 at a weighted-average exercise price of \$10.50 per share.

Unless otherwise indicated, all information in this prospectus assumes no purchaser elects to purchase pre-funded warrants, no exercise of the common warrants and no exercise by the underwriter of its option to purchase additional shares and/or common warrants.

# SUMMARY CONSOLIDATED FINANCIAL DATA

The following summary consolidated financial data as of and for the years ended June 30, 2022 and 2021 are derived from our audited consolidated financial statements included in our Annual Report on Form 10-K for the fiscal year ended June 30, 2022, which is incorporated by reference herein. You should read this data together with our consolidated financial statements and related notes included in our Annual Report on Form 10-K for the fiscal year ended June 30, 2022, which is incorporated by reference herein. Our historical results are not necessarily indicative of our future results, and are not necessarily indicative of the results that may be expected for any interim periods, or any future year or period.

	Year ende	Year ended June 30,	
(in thousands, except share and per share amounts)	2022	2021	
Statements of operations data:			
Revenues:			
Revenues from customers	\$ 73	\$ 59	
Government research and development grants			
Total revenues	73	59	
Operating Expenses:			
Royalties and license fees	9	123	
Research and development	11,272	7,020	
General and administrative	6,646	6,512	
Total operating expenses	17,927	13,655	
Loss from Operations	(17,854)	(13,596)	
Other Income (Loss):			
Foreign currency transaction loss	(232)	(333)	
Interest income (expense), net	(32)	(6)	
Other income (expense), net	(79)	37	
Unrealized gain (loss) on investment	(11)	16	
Total other loss, net	(354)	(286)	
Net Loss	\$ (18,208)	\$ (13,882)	
Other Comprehensive Income (Loss):			
Unrealized foreign currency translation gain	210	498	
Total Other Comprehensive Income	210	498	
Total Comprehensive Loss	\$ (17,998)	\$ (13,384)	
Net Loss	\$ (18,208)	\$ (13,882)	
Basic and Diluted Weighted-Average Number of Shares Outstanding	8,171,690	4,295,416	
Basic and Loss Per Share of Common Stock	<u>\$</u> (2.23)	\$ (3.23)	

(in thousands)	Jur	June 30,	
	2022	2021	
Balance sheet data:			
Cash and cash equivalents	\$4,062	\$19,769	
Working capital	2,288	19,239	
Total assets	5,973	21,379	
Total long-term liabilities	559	_	
Total stockholders' equity	2,882	20,010	

#### RISK FACTORS

Investing in our securities involves a high degree of risk. You should carefully consider the risks and uncertainties described below, as well as those risk factors included in our Annual Report on Form 10-K for the fiscal year ended June 30, 2022 and any subsequent Quarterly Report on Form10-Q, together with all of the other information contained in this prospectus and incorporated by reference herein, including our consolidated financial statements and the related notes, before deciding to invest in our securities. The risks and uncertainties described below and in the documents incorporated by reference herein are not the only ones we face. Additional risks and uncertainties that we are unaware of, or that we currently believe are not material, may also become important factors that affect us. If any of the following risks actually occurs, our business, financial condition, results of operations and prospects could be materially and adversely affected, the trading price of our common stock could decline and you could lose all or part of your investment.

# Risks Related to Our Financial Condition and Capital Requirements

Even if this offering is successful, we will need to continue our efforts to raise additional funding, which may not be available on acceptable terms, or at all. Failure to obtain capital when needed may significantly curtail, delay or discontinue one or more of our research or development programs or the commercialization of any approved product candidates.

Developing ddRNAi products is expensive, and we expect our research and development expenses to increase substantially in connection with our ongoing activities, particularly as we advance our product candidates in preclinical studies and in future clinical trials and as we undertake preclinical studies of new product candidates.

As of June 30, 2022 and June 30, 2021, our cash and cash equivalents were \$4.1 million and \$19.8 million, respectively. We estimate that the net proceeds from this offering will be approximately \$18,179,836 (\$20,969,835 assuming the full exercise of the underwriter's option to purchase additional common stock and/or common warrants), assuming a public offering price of \$0.7880 per share of common stock and common warrant, the last reported sale price of our common stock on the Nasdaq Capital Market on September 8, 2022, after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us, and assuming we sell only shares of common stock in this offering and no exercise of the common warrants. We estimate that these net proceeds, together with our existing cash and cash equivalents, will be sufficient to fund our operations until approximately the fourth quarter of 2023. However, our operating plan may change as a result of many factors currently unknown to us, and we may need to seek additional funds sooner than planned, through public or private equity or debt financings, government grants or other third-party funding, strategic alliances and licensing arrangements or a combination of these approaches. In addition, because the length of time and activities associated with successful development of our product candidates is highly uncertain, we are unable to estimate the actual funds we will require for development and any approved marketing and commercialization activities. In any event, we will require additional capital to obtain regulatory approval for our product candidates and to commercialize any product candidates that receive regulatory approval.

Any additional fundraising efforts may divert our management from their day-to-day activities, which may compromise our ability to develop and commercialize our product candidates. In addition, we cannot guarantee that future financing will be available in sufficient amounts or on terms acceptable to us, if at all. Moreover, the terms of any financing may adversely affect the holdings or the rights of our shareholders, and the issuance of additional securities, whether equity or debt, by us, or the possibility of such issuance, may cause the market price of our common stock to decline. If we incur indebtedness we may be required to agree to restrictive covenants, such as limitations on our ability to incur additional debt, limitations on our ability to acquire, sell or license intellectual property rights and other operating restrictions that could compromise our ability to conduct our business. We could also seek financing through arrangements with collaborative partners at an earlier stage than would otherwise be desirable and we may be required to relinquish rights to some or all of our technologies or product candidates or otherwise agree to terms unfavorable to us.

If we are unable to obtain funding on a timely basis or on acceptable terms, we may be required to significantly curtail, delay or discontinue one or more of our research or development programs or the commercialization of any approved product candidates.

#### Our auditors' report expresses substantial doubt about our ability to continue as a going concern.

Our independent auditors' report on our June 30, 2022 consolidated financial statements included in our Annual Report on Form 10-K for the fiscal year ended June 30, 2022 includes a statement expressing substantial doubt about our ability to continue as a going concern. We have recurring net losses, which have resulted in an accumulated deficit of \$148.3 million as of June 30, 2022 and \$130.1 million as of June 30, 2021. We have incurred a net loss of \$18.2 million for the fiscal year ended June 30, 2022 and \$13.9 million for the fiscal year ended June 30, 2021. At June 30, 2022 and June 30, 2021, we had cash and cash equivalents of \$4.1 million and \$19.8 million, respectively. The Company does not have adequate liquidity to fund its operations for the next 12 months without raising additional funds and the success of raising such additional capital is not solely within the control of the Company. These factors raise substantial doubt about our ability to continue as a going concern.

We will continue to seek to raise additional working capital through public equity, private equity or debt financings. If we fail to raise additional working capital, or do so on commercially unfavorable terms, it would materially and adversely affect our business, prospects, financial condition and results of operations, and we may be unable to continue as a going concern. Future reports from our independent registered public accounting firm may also contain statements expressing substantial doubt about our ability to continue as a going concern. If we seek additional financing to fund our business activities in the future and there remains substantial doubt about our ability to continue as a going concern, investors or other financing sources may be unwilling to provide additional funding to us on commercially reasonable terms, if at all.

# Risks Relating to this Offering

# You will experience immediate dilution as a result of this offering and may experience additional dilution in the future.

The public offering price for shares of our common stock and common warrants (or pre-funded warrants and common warrants in lieu thereof) offered hereby will be substantially higher than the net tangible book value per share of our common stock immediately after this offering. If you purchase common stock and common warrants (or pre-funded warrants and common warrants in lieu thereof) in this offering, you will incur substantial and immediate dilution in the net tangible book value of your investment. Net tangible book value per share represents the amount of total tangible assets less total liabilities, divided by the number of shares of our common stock then outstanding. To the extent that options that are currently outstanding are exercised, there will be further dilution to your investment. Exercise of the pre-funded warrants or any of the common warrants will also dilute your investment. We may also issue additional common stock, options and other securities in the future that may result in further dilution of your shares of our common stock.

### There is no public market for the pre-funded warrants or the common warrants being offered by us in this offering.

There is no established public trading market for the pre-funded warrants or the common warrants being offered in this offering, and we do not expect a market to develop. In addition, we do not intend to apply to list the pre-funded warrants or the common warrants on any national securities exchange or other nationally recognized trading system, including The Nasdaq Capital Market. Without an active market, the liquidity of the pre-funded warrants or the common warrants will be limited.

Holders of the pre-funded warrants or the common warrants offered hereby will have no rights as common stockholders with respect to the common stock underlying the pre-funded warrants or the common warrants, as applicable, until such holders exercise their pre-funded warrants or common warrants, as applicable, and acquire our common stock, except as otherwise provided in the pre-funded warrants or the common warrants, as applicable.

Until holders of the pre-funded warrants or the common warrants acquire our common stock upon exercise of thepre-funded warrants or the common warrants, as applicable, holders of pre-funded warrants or common

warrants will have no rights with respect to the common stock underlying such pre-funded warrants or common warrants, except to the extent that holders of such pre-funded warrants or common warrants will have certain rights to participate in distributions or dividends paid on our common stock as set forth in the pre-funded warrants or the common warrants, as applicable. Further, as described elsewhere herein, certain of the common warrants that we are offering, the Series 2 Common Warrants, will not be exercisable until we obtain Stockholder Approval to effect a Capital Event, which we cannot guarantee, in which case such common warrant holders will not be able to exercise their common warrants at all. Upon exercise of the pre-funded warrants or the common warrants, as applicable, the holders will be entitled to exercise the rights of a common stockholder only as to matters for which the record date occurs after the exercise date. See the Risk Factor titled, "We do not have enough authorized shares of common stock to issue shares upon the exercise of all of the common warrants offered hereunder and we require Stockholder Approval of the Capital Event and the subsequent filing with the Secretary of State of Delaware a certificate of amendment to our amended and restated certificate of incorporation to effect such Capital Event in order to have a sufficient number of shares of common stock available for issuance upon exercise of all of the common warrants. There is no assurance that such Stockholder Approval will be obtained which could materially and adversely impact the rights of the common warrant holders" below for additional information.

#### Provisions of the common warrants and the pre-funded warrants offered by this prospectus could discourage an acquisition of us by a third party.

In addition to the discussion of the provisions of our Certificate of Incorporation (as defined below), certain provisions of the common warrants and the pre-funded warrants offered by this prospectus could make it more difficult or expensive for a third party to acquire us. Such common warrants and pre-funded warrants prohibit us from engaging in certain transactions constituting "fundamental transactions" unless, among other things, the surviving entity assumes our obligations under the common warrants and the pre-funded warrants. Further, the common warrants and the pre-funded warrants provide that, in the event of certain transactions constituting "fundamental transactions," with some exception, holders of the common warrants and the pre-funded warrants and the pre-funded warrants and the pre-funded warrants and the pre-funded warrants. These and other provisions of the common warrants and the pre-funded warrants offered by this prospectus could prevent or deter a third party from acquiring us even where the acquisition could be beneficial to you.

#### The common warrants are speculative in nature.

The common warrants offered hereby do not confer any rights of common stock ownership on their holders, such as voting rights or the right to receive dividends, but rather merely represent the right to acquire shares of common stock at a fixed price. Specifically, commencing on the date of an Initial Exercise Date, which date may vary as more fully described in the section titled "Description of Securities — Common Warrants," holders of the common warrants may acquire the common stock issuable upon exercise of such common warrants at an exercise price of \$ per share. Moreover, following this offering, the market value of the common warrants is uncertain and there can be no assurance that the market value of the common warrants will ever equal or exceed their public offering price. There can be no assurance that the market price of the common stock will ever equal or exceed the exercise price of the common warrants and consequently, whether it will ever be profitable for holders of the common warrants to exercise the common warrants.

# We may not receive any additional funds upon the exercise of thepre-funded warrants and the common warrants.

Each pre-funded warrant and common warrant may be exercised by way of a cashless exercise, meaning that the holder may not pay a cash purchase price upon exercise, but instead would receive upon such exercise the net number of shares of our common stock determined according to the formula set forth in the pre-funded warrant or the common warrant, as applicable. Accordingly, we may not receive any additional funds upon the exercise of the pre-funded warrants or the common warrants. In addition, the pre-funded warrants have an exercise price of \$0.0001 per share of common stock, and as a result we will not receive significant additional funds upon their exercise even if not a cashless exercise.

### Significant holders or beneficial holders of our common stock may not be permitted to exercise warrants that they hold.

Holders of the pre-funded warrants and the common warrants will not be entitled to exercise any portion of any pre-funded warrant or common warrant which, upon giving effect to such exercise, would cause the aggregate number of shares of our common stock beneficially owned by the holder (together with its affiliates) to exceed a specified percentage of the number of shares of our common stock outstanding immediately after giving effect to the exercise, as such percentage ownership is determined in accordance with the terms of the pre-funded warrants and the common warrants. As a result, you may not be able to exercise your pre-funded warrants or common warrants for shares of our common stock at a time when it would be financially beneficial for you to do so. In such circumstance, you could seek to sell your pre-funded warrants or common warrants to realize value, but you may be unable to do so in the absence of an established trading market for the pre-funded warrants or the common warrants.

We may fail to continue to meet the listing standards of The Nasdaq Capital Market whether or not this offering occurs. Even if this offering occurs, this offering could cause our stock price to fall, which could result in us being delisted from The Nasdaq Capital Market. Failure to maintain the listing of our common stock with a U.S. national securities exchange could adversely effect the liquidity off our common stock.

Our common stock is currently listed on The Nasdaq Capital Market. In order to maintain that listing, we must satisfy minimum financial and other continued listing requirements and standards, including maintaining a minimum share price. For example, the current continued listing requirements of Nasdaq provide, among other things, that a company may be delisted if the bid price of its stock drops below \$1.00 for a period of 30 consecutive business days.

On September 6, 2022, we received a letter from the Listing Qualifications Department of the Nasdaq Stock Market notifying us that the minimum bid price per share for our common stock fell below \$1.00 for a period of 30 consecutive business days and that therefore we did not meet the minimum bid price requirement set forth in Nasdaq Listing Rule 5550(a)(2). The letter also states that we will be provided 180 calendar days, or until March 6, 2023 to regain compliance with the minimum bid price requirement. In accordance with Rule 5810(c)(3)(A), we can regain compliance if at any time during the 180-day period the closing bid price of our common stock is at least \$1.00 for a minimum of 10 consecutive business days. If by March 6, 2023, we cannot demonstrate compliance with the Rule 5550(a)(2), we may be eligible for additional time. To qualify for additional time, we will be required to meet the continued listing requirement for market value of publicly held shares and all other initial listing standards for The Nasdaq Capital Market, with the exception of the bid price requirement, and we will need to provide written notice of our intention to cure the deficiency during the second compliance period. If we are not eligible for the second compliance period, then the Nasdaq Staff will provide notice that our securities will be subject to delisting. At such time, we may appeal the delisting determination to a Hearings Panel.

If we fail to satisfy the continued listing requirements of Nasdaq, such as the minimum share price requirement, Nasdaq may take steps to delist our securities. Such a delisting would likely have a negative effect on the price and liquidity of our common stock and would impair your ability to sell or purchase our common stock when you wish to do so. In the event of a delisting, we would take actions to restore our compliance with Nasdaq's listing requirements, but we can provide no assurance that any such action taken by us would allow our common stock to become listed again, stabilize the market price or improve the liquidity of our securities, prevent our common stock from dropping below the Nasdaq minimum share price requirement or prevent future non-compliance with Nasdaq's listing requirements.

We intend to monitor the closing bid price of our common stock and may, if appropriate, consider implementing available options to regain compliance with the minimum bid price requirement. These options include completing a reverse stock split of our common stock for the purpose of meeting the closing bid price requirement.

We intend to monitor the closing bid price of our common stock and may, if appropriate, consider implementing available options to regain compliance with the minimum bid price requirement. These options include completing a reverse stock split of our common stock for the purpose of meeting the closing bid price requirement. We have previously completed reverse stock splits in connection with complying with our listing requirement and any such option we undertake will not, in of itself, cause us to remain in compliance.

If our common stock were to be delisted from Nasdaq, our common stock could begin to trade on one of the markets operated by OTC Markets Group, including OTCQX, OTCQB or OTC Pink (formerly known as the "pink sheets"), as the case may be. In such event, our common stock could be subject to the "penny stock" rules which, among other things, require brokers or dealers to approve investors' accounts, receive written agreements and determine investor suitability for transactions and disclose risks relating to investing in the penny stock market. Any such delisting of our common stock could have an adverse effect on the market price of, and the efficiency of the trading market for our common stock, not only in terms of the number of shares that can be bought and sold at a given price, but also through delays in the timing of transactions and less coverage of us by securities analysts, if any. Also, if in the future we were to determine that we need to seek additional equity capital, it could have an adverse effect on our ability to raise capital in the public or private equity markets. In addition, there can be no assurance that our common stock would be eligible for trading on any such alternative exchange or markets.

#### Future sales of our common stock, or the perception that such sales may occur, could depress the trading price of our common stock.

After the completion of this offering, we expect to have 33,552,400 shares (37,359,506 shares if the underwriter exercises its option to purchase additional shares in full) of our common stock outstanding, which may be resold in the public market immediately after this offering. We and all of our directors and executive officers have signed lock-up agreements for a period of 90 days following the date of this prospectus, subject to specified exceptions. See "Underwriting."

The underwriter may, in its sole discretion and without notice, release all or any portion of the shares of our common stock subject tdock-up agreements. As restrictions on resale end, the market price of our common stock could drop significantly if the holders of these shares of our common stock sell them or are perceived by the market as intending to sell them. These factors could also make it more difficult for us to raise additional funds through future offerings of our common stock or other securities.

# We have broad discretion in the use of the net proceeds we receive from this offering and may not use them effectively.

Our management will have broad discretion in the application of the net proceeds we receive in this offering, including for any of the purposes described in the section entitled "Use of Proceeds," and you will not have the opportunity as part of your investment decision to assess whether our management is using the net proceeds appropriately. Because of the number and variability of factors that will determine our use of our net proceeds from this offering, their ultimate use may vary substantially from their currently intended use. The failure by our management to apply these funds effectively could result in financial losses that could have a material adverse effect on our business and cause the price of our common stock to decline. Pending their use, we may invest our net proceeds from this offering in short-term, investment-grade, interest-bearing securities. These investments may not yield a favorable return to our stockholders.

We do not have enough authorized shares of common stock to issue shares upon the exercise of all of the common warrants offered hereunder and we require Stockholder Approval of the Capital Event and the subsequent filing with the Secretary of State of the State of Delaware a certificate of amendment to our amended and restated certificate of incorporation to effect such Capital Event in order to have a sufficient number of shares of common stock available for issuance upon exercise of all of the common warrants. There is no assurance that such Stockholder Approval will be obtained which could materially and adversely impact the rights of the common warrant holders.

We do not have enough shares of common stock currently authorized under our amended and restated certificate of incorporation to issue shares upon the exercise of all of the common warrants that we are issuing in this offering. Therefore, those common warrants that are not exercisable until Stockholder Approval is obtained, the Series 2 Common Warrants, will not be exercisable until we obtain such Stockholder Approval to effect an increase in our authorized shares of common stock or a reverse stock split in an amount sufficient to permit exercise in full of the common warrants and, thus, such shares of common stock underlying the Series 2 Common Warrants are not being registered in this offering. We currently have 40,000,000 shares of common stock authorized under our amended and restated certificate of incorporation. Of those authorized shares that remain available for issuance, we have reserved, in connection with this offering, an aggregate of 25,380,710 shares of common stock and an aggregate of 25,380,710 shares of common stock underlying the pre-funded warrants, all of which may be immediately exercisable; however we do not have enough authorized shares underlying all of the common warrants for each to be immediately exercised. Accordingly, only some of the common warrants, the Series 1 Common Warrants, may be immediately exercised and the remaining common warrants, the Series 2 Common Warrants, cannot be exercised unless and until the Capital Event is approved by stockholders and we effect such Capital Event by filing with the Secretary of State of the State of Delaware a certificate of amendment to our amended and restated certificate of incorporation and, thus, the shares of common stock underlying such Series 2 Common Warrants are not being registered in this offering. If our stockholders do not approve the Capital Event, we are obligated pursuant to the Form of Common Warrant (which is filed as an exhibit to the registration statement of which this prospectus forms a part) to continue to hold meetings of our stockholders to solicit approval, and 3,807,106 shares of common stock that may be issued if the underwriter exercises its over-allotment option until the Capital Event is approved. If we are unable to obtain such stockholder approval, the Series 2 Common Warrants will have no value and will expire. In no event may the warrants be net cash settled. There is no assurance we will be able to obtain such approval from our stockholders in which case the Series 2 Common Warrant holders would not be able to exercise their common warrants, which would materially and adversely impact the rights of such Series 2 Common Warrant holders.

### We have used almost all of our unreserved, authorized shares.

After giving effect to this offering, we will have used almost all of our unreserved authorized shares and will need stockholder approval to implement an increase in our authorized shares of common stock or a reverse stock split. Our certificate of incorporation and the Delaware General Corporation Law, or the DGCL, currently require the approval of stockholders holding not less than a majority of all outstanding shares of capital stock entitled to vote in order to approve an increase in our authorized shares of common stock or a reverse stock split. There are no assurances that stockholder approval will be obtained, in which event will be unable to raise additional capital through the issuance of shares of common stock to fund our future operations.

#### USE OF PROCEEDS

We estimate that the net proceeds from this offering will be approximately \$18,179,836, or \$20,969,835 if the underwriter exercises its option to purchase additional shares of common stock and/or common warrants in full, assuming a public offering price of \$0.7880 per share of common stock and common warrant, the last reported sale price per share of our common stock on September 8, 2022 as reported on Nasdaq, after deducting the estimated underwriting discounts and commissions and estimated offering expenses payable by us and assuming no sale of any pre-funded warrants in this offering and no exercise of the common warrants. The public offering price will be determined between us, the underwriter and investors based on market conditions at the time of pricing and may be at a discount to our current market price.

We will only receive additional proceeds from the exercise of the common warrants issuable in connection with this offering if such warrants are exercised at their exercise price of \$ and the holders of such warrants pay the exercise price in cash upon such exercise. Such proceeds with respect to the common warrants could not exceed \$ .

Each \$0.10 increase or decrease in the assumed public offering price of \$0.7880 per share of common stock and common warrant would increase or decrease the net proceeds from this offering by \$2,360,406, assuming the number of shares and pre-funded warrants offered by us, as set forth on the cover of this prospectus, remains the same and after deducting the estimated underwriting discounts and commissions and estimated offering expenses payable by us. We may also increase or decrease the number of shares and pre-funded warrants we are offering. An increase or decrease of 5,076,142 in the number of shares (or the common stock underlying the pre-funded warrants) offered by us, as set forth on the cover of this prospectus, would increase or decrease the net proceeds from this offering by approximately \$3,720,000, assuming the assumed public offering price per share of common stock and common warrant remains the same, and after deducting the estimated underwriting discounts and commissions and estimated offering expenses payable by us. We do not expect that a change by these amounts in either the public offering price per share of common stock and common warrant or in the number of shares offered by us would have a material effect on our use of the proceeds from this offering, although it may accelerate the time at which we will need to seek additional capital.

We intend to use the net proceeds from this financing for the clinical development ofBB-301, including the natural history lead-in study and the Phase 1b/2a BB-301 treatment study, for the continued advancement of development activities for other existing and new product candidates, for general corporate purposes and for strategic growth opportunities.

The amount and timing of these expenditures will depend on a number of factors, including the progress of our research and development efforts, the progress of any partnering efforts, technological advances and the competitive environment for our product candidates. Accordingly, you will be relying on the judgment of our management with regard to the use of these net proceeds, and you will not have the opportunity, as part of your investment decision, to assess whether the proceeds are being used appropriately. It is possible that the proceeds will be used in a way that does not yield a favorable, or any, return for us. Pending application of the net proceeds as described above, we intend to invest the proceeds in investment grade interest bearing instruments, or will hold the proceeds in interest bearing or non-interest bearing bank accounts.

#### CAPITALIZATION

The following table sets forth our cash and cash equivalents and capitalization, each as of June 30, 2022:

- on an actual basis; and
- on an as adjusted to give effect to the issuance of shares of common stock in the offering at an assumed public offering price of \$0.7880 per share of common stock and common warrant, the last reported sale price per share of our common stock on September 8, 2022, as reported on Nasdaq, assuming no sale of any pre-funded warrants or exercise of any common warrants in this offering and after deducting the estimated underwriting discounts and commissions and estimated offering expenses payable by us.

You should consider this table in conjunction with "Summary Consolidated Financial Data" and our financial statements and the notes to those financial statements and the section titled "Management's Discussion and Analysis of Financial Condition and Results of Operations" included in our Annual Report on Form 10-K for the fiscal year ended June 30, 2022, which are incorporated by reference herein. The as adjusted information set forth in the table below is illustrative only and will be adjusted based on the actual public offering price and other terms of this offering determined at pricing.

	As of Jun	As of June 30, 2022	
	pro f	orma	
(in thousands)	Actual	As Adjusted(1)	
Cash and cash equivalents	\$ 4,062	\$ 22,242	
Total liabilities	3,091	3,091	
Stockholders' equity:			
Common stock, par value \$0.0001 per share:			
40,000,000 shares authorized; 8,171,690 actual; 33,552,400 pro forma	1	4	
Additional paid-in capital	152,453	170,630	
Accumulated deficit	(148,327)	(148,327)	
Accumulated other comprehensive loss	(1,245)	(1,245)	
Total stockholders' equity	2,882	21,062	
Total capitalization	\$ 5,973	\$ 24,153	

- (1) The number of shares in the table above is based on 8,171,690 shares of common stock outstanding as of June 30, 2022 and does not include:
  - shares of common stock that may be issued upon exercise ofpre-funded warrants and common warrants issued in this offering;
  - 738,064 shares of common stock issuable upon exercise of stock options outstanding as of June 30, 2022 at a weighted-average exercise price of \$6.95 per share; and
  - 107,095 shares of common stock issuable upon the exercise of warrants exercisable for shares of common stock outstanding as of June 30, 2022 at a weighted-average exercise price of \$10.50 per share.

Each \$0.10 increase or decrease in the assumed public offering price of \$0.7880 per share would increase or decrease, as applicable, our cash, additional paid-in capital, total stockholders' equity and total capitalization by approximately \$2,360,406, assuming that the number of shares offered by us remains the same and after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us. Each increase or decrease of 5,076,142 shares offered by us would increase or decrease the amount of our cash and total stockholders' equity by approximately \$3,720,000, assuming a public offering price of \$0.7880 per share, after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us.

## DILUTION

If you invest in our common stock and/orpre-funded warrants in this offering, your ownership interest will be diluted immediately to the extent of the difference between the public offering price per share of our common stock and the as adjusted net tangible book value per share of our common stock after this offering. Our net tangible book value as of June 30, 2022 was approximately \$2.1 million, or \$0.26 per share of our common stock (based upon 8,171,690 shares of our common stock outstanding). Net tangible book value per share is equal to our total tangible assets less our total liabilities, divided by the number of shares of our outstanding common stock.

After giving effect to the sale of shares of our common stock and accompanying common warrants in this offering at the assumed public offering price of \$0.7880 per share (the last reported sale price of our common stock on The Nasdaq Capital Market on September 8, 2022), and after deducting the estimated underwriting discounts and commissions and estimated offering expenses payable by us, and assuming we sell only shares of common stock in this offering and no exercise of the common warrants, our as adjusted net tangible book value as of June 30, 2022 would have been approximately \$20.3 million, or \$0.60 per share of common stock. This represents an immediate increase in as adjusted net tangible book value of \$0.35 per share to our existing stockholders, and an immediate dilution of \$0.18 per share to new investors purchasing securities in this offering at the assumed public offering price. The final public offering price will be determined between us, the underwriter and investors in the offering based on market conditions at the time of pricing and may be at a discount to the current market price. Therefore, the assumed public offering price used throughout this prospectus may not be indicative of the final public offering price.

The following table illustrates this dilution on a per share basis:

Assumed public offering price per share and accompanying common warrant		\$0	.7880
Historical net tangible book value per share as of June 30, 2022	\$0.26		
Pro forma increase in net tangible book value per share attributable to investors in this offering	\$0.35		
As adjusted net tangible book value per share after giving effect to this offering		\$	0.60
Dilution per share to investors participating in this offering		\$	0.18

A \$0.10 increase in the assumed public offering price of \$0.7880 per share, which is the last reported sale price of our common stock on The Nasdaq Capital Market on September 8, 2022, would result in an increase in our as adjusted net tangible book value per share after this offering by approximately \$0.07 and the dilution per share to new investors purchasing shares in this offering by \$0.03 assuming the number of securities offered by us, as set forth on the cover page of this prospectus, remains the same, and after deducting the estimated underwriting discounts and commissions and estimated offering expenses payable by us. A \$0.10 decrease in the assumed public offering price of \$0.7880 per share, which is the last reported sale price of our common stock on The Nasdaq Capital Market on September 8, 2022, would result in a decrease in our as adjusted net tangible book value per share after this offering by approximately \$0.07 and the dilution per share to new investors purchasing shares in this offering by \$0.03 assuming the number of securities offered by us, as set forth on the cover page of this prospectus, remains the same, and after deducting the estimated underwriting discounts and commissions and estimated offering expenses payable by us. We may also increase or decrease the number of securities to be issued in this offering. Each increase or decrease of 5,076,142 shares offered by us would increase or decrease our as adjusted net tangible book value per share and the dilution per share to new investors purchasing securities in this offering by \$0.02 assuming that the assumed public offering price remains the same, and after deducting the estimated underwriting discounts and commissions and estimated offering expenses payable by us. The information discussed above is illustrative only and will be adjusted based on the actual public offering price and other terms of this offering as determined between us and the underwriter at pricing.

The foregoing discussion and table do not take into account further dilution to investors in this offering that could occur upon the exercise of outstanding options and warrants, including the pre-funded warrants and

common warrants offered in this offering, having a per share exercise price less than the public offering price per share in this offering.

The discussion and table above are based on 8,171,690 shares of our common stock outstanding as of June 30, 2022, and do not include:

- shares of common stock that may be issued upon exercise of pre-funded warrants and common warrants issued in this offering;
- 738,064 shares of common stock issuable upon exercise of stock options outstanding as of June 30, 2022 at a weighted-average exercise price of \$6.95 per share; and
- 107,095 shares of common stock issuable upon the exercise of warrants exercisable for shares of common stock outstanding as of June 30, 2022 at a weighted-average exercise price of \$10.50 per share.

The discussion and table above assume no sale ofpre-funded warrants, which, if sold, would reduce the number of shares of common stock that we are offering on a one-for-one basis.

To the extent that our outstanding options or warrants are exercised, new options are issued under our equity incentive plan, or additional shares of our common stock are issued in the future, there may be further dilution to investors participating in this offering. In addition, we may choose to raise additional capital because of market conditions or strategic considerations, even if we believe that we have sufficient funds for our current or future operating plans. If we raise additional capital through the sale of equity or convertible debt securities, the issuance of these securities could result in further dilution to our stockholders.

## MARKET PRICE OF OUR COMMON STOCK AND RELATED STOCKHOLDER MATTERS

Our common stock trades on Nasdaq under the symbol "BNTC." We do not intend to apply for the listing of the pre-funded warrants or the common warrants that are part of this offering on any national securities exchange. On September 8, 2022, the closing sale price of our common stock as reported on Nasdaq was \$0.7880 per share.

As of August 15, 2022, we had approximately 3,313 record holders of our common stock. The number of record holders is based on the actual number of holders registered on the books of our transfer agent and does not reflect holders of shares in "street name" or persons, partnerships, associations, corporations or other entities identified in security position listings maintained by depository trust companies.

## DIVIDEND POLICY

We never have declared or paid any cash dividends on our capital stock. Currently, we anticipate that we will retain all available funds for use in the operation and expansion of our business and do not anticipate paying any cash dividends for the foreseeable future. Any future determination relating to our dividend policy will be made at the discretion of our Board and will depend on our future earnings, capital requirements, financial condition, prospects, applicable Delaware law, which provides that dividends are only payable out of surplus or current net profits, and other factors that our Board deems relevant.

#### PRINCIPAL STOCKHOLDERS

The following table sets forth certain information regarding the beneficial ownership of the Company's common stock as of August 15, 2022 by (i) each person or group of persons known by us to beneficially own more than five percent of our common stock, (ii) each of our named executive officers, (iii) each of our directors and (iv) all of our directors and executive officers as a group.

The following table gives effect to the shares of common stock issuable within 60 days of August 15, 2022 upon the exercise of all options and other rights beneficially owned by the indicated stockholders on that date. Beneficial ownership is determined in accordance with Rule 13d-3 promulgated under Section 13 of the Securities Exchange Act and includes voting and investment power with respect to shares. Percentage of beneficial ownership is based on 8,171,690 shares of common stock outstanding at the close of business on August 15, 2022. Except as otherwise noted below, each person or entity named in the following table has sole voting and investment power with respect to all shares of our common stock that he, she or it beneficially owns.

Unless otherwise indicated below, the address for each beneficial owner listed is c/o 3940 Trust Way, Hayward, California 94545.

	Number of Shares	Percentage of Shares Beneficially Owned	
Name of Beneficial Owner	Beneficially Owned	Before Offering	After Offering
5% or Greater Stockholders:			
Steven Michael Oliveira(1)	1,000,000	12.2%	
Entities affiliated with Suvretta Capital Management, LLC(2)	769,000	9.4%	
Entities affiliated with SilverArc Capital Management, LLC(3)	587,499	7.2%	
Entities affiliated with Lincoln Park Capital, LLC(4)	423,529	5.2%	
Directors and Named Executive Officers:			
Jerel A. Banks(5)	128,114	1.6%	
Megan Boston(6)	64,389	*	
J. Kevin Buchi(7)	12,693	*	
Peter Francis(8)	12,903	*	
Edward Smith(9)	7,866	*	
All Executive Officers and Directors As a Group (5 persons)(10)	225,965	2.8%	

- \* Represents beneficial ownership of less than one percent of the Company's outstanding common stock.
- (1) Based on the information included in the Form 4 filed by Steven Michael Oliveira on December 9, 2021. The shares of common stock are held through Nemean Asset Management, LLC. The address of Steven Michael Oliveira is 225 Via Palacio, Palm Beach Gardens, FL, 33418.
- (2) Based on the information included in the Schedule 13G filed by Suvretta Capital Management, LLC (<u>Suvretta</u>") on May 7, 2021, Averill Master Fund, Ltd. (<u>"Averill"</u>) and Aaron Cowen. The address of the principal business office of Suvretta and Mr. Cowen is c/o Suvretta Capital Management, LLC, 540 Madison Avenue, 7<sup>th</sup> Floor, New York, New York 10022. The address of the principal business office of Averill is c/o Maples Corporate Services Limited, P.O. Box 309, Ugland House, Grand Cayman KY1-1104, Cayman Islands.
- (3) Based on information included in the Schedule 13G filed by SilverArc Capital Management, LLC (<u>\*SilverArc</u>\*) and Devesh Gandhi (<u>\*Gandhi</u>\*) on February 9, 2022. Gandhi is the Sole Member of SilverArc and as such is deemed to be the beneficial owner of these 587,499 shares. SilverArc Capital Alpha Fund I, L.P., a Delaware limited partnership for which SilverArc acts as an investment adviser, may be deemed to beneficially own 33,017 of these 587,499 shares. SilverArc Capital Alpha Fund II, L.P., a Delaware limited partnership for which SilverArc acts as an investment adviser, may be deemed to beneficially own 384,277 of these 587,499 shares. Squarepoint Diversified Partners Fund Limited, a Cayman Island exempted

- company for which SilverArc acts as investment adviser, may be deemed to beneficially own 96,918 of these 587,499 shares. Atom Master Fund L.P., a Cayman Islands exempted limited partnership for which SilverArc acts as investment adviser, may be deemed to beneficially own 73,287 of these 587,499 shares. The address of the principal business office of SilverArc and Gandhi is 20 Park Plaza, 4th Floor, Boston, Massachusetts 02116.
- (4) Based on information included in the Schedule 13G filed by Lincoln Park Capital, LLC and its affiliates on April 28, 2021. Represents 423,529 shares held directly by Lincoln Park Capital Fund, LLC ("LPC Fund"). Alex Noah and Joshua B. Scheinfeld have shared voting and shared investment power over the shares held by LPC Fund. The address of the principal business office of Lincoln Park Capital, LLC and its affiliates is 440 North Wells, Suite 410, Chicago, Illinois 60654.
- (5) Represents stock options to acquire 128,114 shares of common stock that have vested or will vest within 60 days of August 15, 2022.
- (6) Includes 333 shares of common stock held by Boston Super Invest Pty A/C Boston Family Super that Megan Boston has sole voting power over and stock options to acquire 64,056 shares of common stock that have vested or will vest within 60 days of August 15, 2022.
- (7) Includes 4,827 shares of common stock held directly by Mr. Buchi and stock options to acquire 7,866 shares of common stock that have vested or will vest within 60 days of August 15, 2022.
- (8) Includes 4,737 shares of common stock held by the Francis Family Superannuation Fund, 300 shares of common stock held directly by Mr. Francis, and stock options to acquire 7,866 shares of common stock that have vested or will vest within 60 days of August 15, 2022.
- (9) Represents stock options to acquire 7,866 shares of common stock that have vested or will vest within 60 days of August 15, 2022.
- (10) Includes 10,197 shares of common stock and stock options to acquire 215,768 shares of common stock that have vested or will vest within 60 days of August 15, 2022.

#### DESCRIPTION OF SECURITIES

The following description of our securities is intended as a summary only. We refer you to our Annual Report on Form10-K for the fiscal year ended June 30, 2022, amended and restated certificate of incorporation (the "Certificate of Incorporation") and restated bylaws (the "Bylaws"), which are incorporated by reference into this prospectus, and to the applicable provisions of the Delaware General Corporation Law ("DGCL"). This description may not contain all of the information that is important to you and is subject to, and is qualified in its entirety by reference to, our Annual Report on Form 10-K for the fiscal year ended June 30, 2022, our Certificate of Incorporation, our Bylaws and the applicable provisions of the DGCL. For information on how to obtain copies of our Annual Report on Form 10-K for the fiscal year ended June 30, 2022, our Certificate of Incorporation and our Bylaws, see "Where You Can Find More Information."

#### General

Our authorized capital stock consists of 40,000,000 shares of our common stock, par value \$0.0001 per share.

### Common Stock

Dividend Rights. Subject to preferences that may be applicable to any then outstanding preferred stock, holders of the Company's common stock are entitled to receive dividends, if any, as may be declared from time to time by the Company's Board out of legally available funds. Dividends may be paid in cash, in property or in shares of common stock, subject to the provisions of the Certificate of Incorporation and applicable law. Declaration and payment of any dividend will be subject to the discretion of the Board. The time and amount of dividends will be dependent upon the Company's financial condition, operations, cash requirements and availability, debt repayment obligations, capital expenditure needs, restrictions in the Company's debt instruments, industry trends, the provisions of Delaware law affecting the payment of distributions to stockholders and any other factors the Board may consider relevant.

Voting Rights. Each holder of common stock is entitled to one vote for each share on all matters submitted to a vote of the stockholders, including the election of directors. The Company's stockholders do not have cumulative voting rights in the election of directors.

Liquidation Rights. In the event of the Company's liquidation, dissolution or winding up, holders of the Company's common stock are entitled to share ratably in the net assets legally available for distribution to stockholders after the payment of all of the Company's debts and other liabilities and the satisfaction of any liquidation preference granted to the holders of any then outstanding shares of preferred stock.

Rights and Preferences. Holders of the Company's common stock have no pre-emptive, conversion, subscription or other rights, and there are no redemption or sinking fund provisions applicable to the Company's common stock. The rights, preferences and privileges of the holders of the Company's common stock are subject to and may be adversely affected by the rights of the holders of shares of any series of preferred stock that the Company may designate in the future.

Fully Paid and Nonassessable. All outstanding shares of the Company's common stock are fully paidand non-assessable.

Annual Stockholder Meetings. The Certificate of Incorporation and Bylaws provide that annual stockholder meetings will be held at a date, place (if any) and time, as exclusively selected by the Board. To the extent permitted under applicable law, the Company may but is not obligated to conduct meetings by remote communications, including by webcast.

### Common Warrants to be Issued as Part of this Offering

The following summary of certain terms and provisions of the common warrants that are being offered hereby is not complete and is subject to, and qualified in its entirety by, the provisions of common warrant, the form of which is filed as an exhibit to the registration statement of which this prospectus forms a part. Prospective investors should carefully review the terms and provisions of the form of common warrant for a complete description of the terms and conditions of the common warrants.

We are selling to investors in this offering shares of our common stock with accompanying common warrants to purchase 25,380,710 shares of our common stock and/or pre-funded warrants with accompanying common warrants to purchase 25,380,710 shares of our common stock at a combined purchase price of \$ for shares and accompanying common warrants and \$ for pre-funded warrants and accompanying common warrants.

Exercise Price and Duration. Each common warrant will be exercisable beginning on the Initial Exercise Date, which will either be the date of closing or, as applicable (and as more fully described below and in the Form of Common Warrant which is filed as an exhibit to the registration statement of which this prospectus forms a part), the date on which we (a) receive Stockholder Approval for a Capital Event and (b) effect such Capital Event by filing with the Secretary of State of the State of Delaware a certificate of amendment to our amended and restated certificate of incorporation, at an exercise price of \$ per share, subject to adjustment. The common warrants will be exercisable for five years from their respective Initial Exercise Dates, but not thereafter. The exercise price and number of shares of common stock issuable upon exercise is subject to appropriate adjustment in the event of stock dividends, stock splits, reorganizations or similar events affecting our common stock and the exercise price.

Stockholder Approval for a Capital Event. Our authorized capital stock consists of 40,000,000 shares of our common stock, par value \$0.0001 per share. We currently have 8,171,690 shares of our common stock issued and outstanding, an additional 1,911,744 shares of our common stock reserved for future issuance under our equity-based compensation plans, including 738,064 shares of our common stock that may be issued upon exercise of stock options outstanding pursuant to these plans and an additional 107,095 shares of our common stock reserved for future issuance upon exercise of warrants currently outstanding. As a result, after giving effect to this offering, including the exercise of the pre-funded warrants, we may only issue shares of our common stock unless and until we receive Stockholder Approval for a Capital Event. Consequently, of the common warrants, the Series 2 Common Warrants, will not be able to be exercised unless and until we receive such Stockholder Approval and effect such Capital Event by filing with the Secretary of State of the State of Delaware an amendment to our amended and restated certificate of incorporation and, thus, the shares of common stock underlying such Series 2 Common Warrants are not being registered in this offering. Pursuant to the Form of Common Warrant which is filed as an exhibit to the registration statement of which this prospectus forms a part, we are obligated to seek Stockholder Approval within of closing. If we are unable to obtain such stockholder approval, the Series 2 Common Warrants will have no value and will expire. In no event may the Series 2 Common Warrants be net cash settled.

Exercisability. Subject to limited exceptions, a holder of common warrants will not have the right to exercise any portion of its common warrants if the holder, together with its affiliates, would beneficially own in excess of 4.99% (or, at the election of the holder, 9.99%) of the number of shares of our common stock outstanding immediately after giving effect to such exercise (the "Beneficial Ownership Limitation"); provided, however, that upon 61 days' prior notice to the Company, the holder may increase or decrease the Beneficial Ownership Limitation, provided that in no event shall the Beneficial Ownership Limitation exceed 9.99%.

Cashless Exercise. The common warrants contain a "cashless exercise" feature that allows holders to exercise the common warrants without a cash payment to the Company upon the terms set forth in the common warrants, if, at the time of exercise there is no effective registration statement registering, or the prospectus contained therein is not available for, the issuance of the shares to the exercising common warrant holder.

Exercise Limitation. A holder (together with its affiliates) may not exercise any portion of a common warrant to the extent that the holder would own more than 4.99% (or, at the election of the holder, 9.99%) of the outstanding common shares immediately after exercise, except that upon at least 61 days' prior notice from the holder to us, the holder may increase the amount of beneficial ownership of outstanding stock after exercising the holder's common warrants up to 9.99% of the number of our common shares outstanding immediately after giving effect to the exercise, as such percentage ownership is determined in accordance with the terms of the common warrants. Purchasers of common warrants in this offering may also elect prior to the issuance of the common warrants to have the initial exercise limitation set at 9.99% of our outstanding common shares.

*Transferability*. Subject to applicable laws, a common warrant may be transferred at the option of the holder upon surrender of the common warrant to us together with the appropriate instruments of transfer.

Fractional Shares. No fractional common shares will be issued upon the exercise of the common warrants. Rather, the number of common shares to be issued will be rounded down to the nearest whole number.

Trading Market. There is no established public trading market for the common warrants, and we do not expect a market to develop. In addition, we do not intend to apply to list the common warrants on any national securities exchange or other nationally recognized trading system. Without an active trading market, the liquidity of the common warrants will be limited.

Right as a Stockholder. Except as otherwise provided in the common warrants or by virtue of such holder's ownership of shares of our common stock, the holders of the common warrants do not have the rights or privileges of holders of our common stock, including any voting rights, until they exercise their common warrants.

Fundamental Transaction. In the event of a fundamental transaction, as described in the common warrants and generally including any reorganization, recapitalization or reclassification of our common stock, the sale, transfer or other disposition of all or substantially all of our properties or assets, our consolidation or merger with or into another person, the acquisition of more than 50% of our outstanding common stock, or any person or group becoming the beneficial owner of 50% of the voting power represented by our outstanding common stock, the holders of the common warrants will be entitled to receive upon exercise of the common warrants the kind and amount of securities, cash or other property that the holders would have received had they exercised the common warrants immediately prior to such fundamental transaction. In lieu of such consideration, a holder of common warrants may instead elect to receive a cash payment based upon the Black-Scholes value of their common warrants.

Amendment and Waiver. A common warrant may be modified or amended or the provisions thereof waived with the written consent of our company and the holder of the common warrant.

## Pre-Funded Warrants to be Issued as Part of this Offering

The following summary of certain terms and provisions of the pre-funded warrants that are being offered hereby is not complete and is subject to, and qualified in its entirety by, the provisions of the pre-funded warrant, the form of which is filed as an exhibit to the registration statement of which this prospectus forms a part. Prospective investors should carefully review the terms and provisions of the form of pre-funded warrant for a complete description of the terms and conditions of the pre-funded warrants.

Exercise Price and Duration. Each pre-funded warrant offered hereby will have an initial exercise price per share equal to \$0.0001 and will be exercisable for share of our common stock. The pre-funded warrants will be immediately exercisable and may be exercised at any time until the pre-funded warrants are exercised in full. The exercise price and number of shares of common stock issuable upon exercise is subject to appropriate adjustment in the event of stock dividends, stock splits, reorganizations or similar events affecting our common stock and the exercise price.

Exercisability. The pre-funded warrants will be exercisable, at the option of each holder, in whole or in part, by delivering to us a duly executed exercise notice accompanied by payment in full for the number of shares of our common stock purchased upon such exercise (except in the case of a cashless exercise as discussed below). Purchasers of the pre-funded warrants in this offering may elect to deliver their exercise notice following the pricing of the offering and prior to the issuance of the pre-funded warrants at closing to have their pre-funded warrants exercised immediately upon issuance and receive shares of common stock underlying the pre-funded warrants upon closing of this offering. A holder (together with its affiliates) may not exercise any portion of the pre-funded warrant to the extent that the holder would own more than 4.99% (or, at the election of the holder, 9.99%) of the outstanding common stock immediately after exercise, except that upon at least 61 days' prior notice from the holder to us, the holder may increase the amount of ownership of outstanding stock after exercising the holder's pre-funded warrants. No fractional shares of common stock will be issued in connection with the exercise of a pre-funded warrant. In lieu of fractional shares, we will round down to the next whole share.

Cashless Exercise. If, at the time a holder exercises its pre-funded warrants, a registration statement registering the issuance of the shares of common stock underlying the pre-funded warrants under the Securities Act is not then effective or available, then in lieu of making the cash payment otherwise contemplated to be made to us upon such exercise in payment of the aggregate exercise price, the holder may elect instead to receive upon such exercise (either in whole or in part) the net number of shares of common stock determined according to a formula set forth in the pre-funded warrants.

Exercise Limitation. A holder (together with its affiliates) may not exercise any portion of thepre-funded warrant to the extent that the holder would own more than 4.99% (or, at the election of the holder, 9.99%) of the outstanding common shares immediately after exercise, except that upon at least 61 days' prior notice from the holder to us, the holder may increase the amount of beneficial ownership of outstanding stock after exercising the holder's pre-funded warrants up to 9.99% of the number of our common shares outstanding immediately after giving effect to the exercise, as such percentage ownership is determined in accordance with the terms of the pre-funded warrants. Purchasers of pre-funded warrants in this offering may also elect prior to the issuance of the pre-funded warrants to have the initial exercise limitation set at 9.99% of our outstanding common shares.

*Transferability*. Subject to applicable laws, a pre-funded warrant may be transferred at the option of the holder upon surrender of the pre-funded warrant to us together with the appropriate instruments of transfer.

Fractional Shares. No fractional common shares will be issued upon the exercise of thepre-funded warrants. Rather, the number of common shares to be issued will be rounded down to the nearest whole number.

*Trading Market*. There is no established public trading market for the pre-funded warrants, and we do not expect a market to develop. In addition, we do not intend to apply to list the pre-funded warrants on any national securities exchange or other nationally recognized trading system. Without an active trading market, the liquidity of the pre-funded warrants will be limited.

Right as a Stockholder. Except as otherwise provided in the pre-funded warrants or by virtue of such holder's ownership of shares of our common stock, the holders of the pre-funded warrants do not have the rights or privileges of holders of our common stock, including any voting rights, until they exercise their pre-funded warrants.

Fundamental Transaction. In the event of a fundamental transaction, as described in the pre-funded warrants and generally including any reorganization, recapitalization or reclassification of our common stock, the sale, transfer or other disposition of all or substantially all of our properties or assets, our consolidation or merger with or into another person, the acquisition of more than 50% of our outstanding common stock, or any person or group becoming the beneficial owner of 50% of the voting power represented by our outstanding common stock,

the holders of the pre-funded warrants will be entitled to receive upon exercise of the pre-funded warrants the kind and amount of securities, cash or other property that the holders would have received had they exercised the pre-funded warrants immediately prior to such fundamental transaction.

Amendment and Waiver. A pre-funded warrant may be modified or amended or the provisions thereof waived with the written consent of our company and the holder of the pre-funded warrant.

#### Warrants

In September of 2019, Benitec Limited issued warrants for the purchase of its ADSs. In connection withthe Re-domiciliation, these warrants became obligations of the Company. Currently, there are warrants outstanding for the exercise of 107,095 shares of the Company's common stock at an exercise price of \$10.50 per share. The exercise price is subject to appropriate adjustment in the event of certain share dividends and distributions, stock splits, stock combinations, reclassifications or similar events affecting our shares of common stock and also upon any distributions of assets, including cash, stock or other property to our stockholders. The warrants are exerciseable, at the option of each holder, in whole or in part by delivering to us a duly executed exercise notice and, at any time a registration statement registering the issuance of the shares underlying the warrants under the Securities Act is effective and available for the issuance of such shares (or there is an effective registration statement for the resale of such shares), by payment in full in immediately available funds for the number of shares purchased upon such exercise. If no such registration statement is currently effective at the time of an exercise, the warrants will be exercisable on a cashless basis. No fractional shares will be issued in connection with the exercise of a warrant. In lieu of fractional shares, we will round up to the next whole share or pay the holder an amount in cash equal to the fractional amount multiplied by the exercise price.

Subject to limited exceptions, holders of warrants do not have the right to exercise any portion of their warrants if the holder (together with such holder's affiliates, and any persons acting as a group together with such holder or any of such holder's affiliates) would beneficially own a number of shares of common stock in excess of 4.99% of the shares of common stock then outstanding after giving effect to such exercise (the "Warrant Beneficial Ownership Limitation"); provided, however, that, upon notice to the Company, the holder may increase or decrease the Warrant Beneficial Ownership Limitation, provided that in no event shall the Warrant Beneficial Ownership Limitation exceed 9.99% and any increase in the Warrant Beneficial Ownership Limitation will not be effective until 61 days following notice of such increase from the holder to us.

Except as otherwise provided in the warrants or by virtue of such holder's ownership of shares of common stock, the holder of a warrant does not have the rights or privileges of a holder of our common stock, including any voting rights, until the holder exercises the warrant. The foregoing summary of the material terms and provisions of the warrants is qualified in its entirety by the form of warrant, a copy of which is filed as an exhibit to the registration statement of which this prospectus is a part.

#### Anti-Takeover Effects of Provisions of the Certificate of Incorporation and Bylaws and DGCL

Some provisions of the DGCL, the Certificate of Incorporation and Bylaws could make the following transactions difficult: (i) acquisition of the Company by means of a tender offer; (ii) acquisition of the Company by means of a proxy contest or otherwise; or (iii) removal of incumbent officers and directors of the Company. It is possible that these provisions could make it more difficult to accomplish or could deter transactions that stockholders may otherwise consider to be in their best interest or in the best interests of the Company, including transactions that might result in a premium over the market price for the Company's common stock.

These provisions, summarized below, are expected to discourage coercive takeover practices and inadequate takeover bids. These provisions are also designed to encourage persons seeking to acquire control of the Company to first negotiate with the Board.

Delaware Anti-Takeover Statute. The Company is subject to Section 203 of the DGCL, which prohibits persons deemed "interested stockholders" from engaging in a "business combination" with a publicly-held Delaware corporation for three years following the date these persons become interested stockholders unless the business combination is, or the transaction in which the person became an interested stockholder was, approved in a prescribed manner or another prescribed exception applies. Generally, an "interested stockholder" is a person who, together with affiliates and associates, owns, or within three years prior to the determination of interested stockholder status did own, 15% or more of a corporation's voting stock, and a "business combination" includes a merger, asset or stock sale, or other transaction resulting in a financial benefit to the interested stockholder. The existence of this provision may have an anti-takeover effect with respect to transactions not approved in advance by the Board, such as discouraging takeover attempts that might result in a premium over the market price of the Company's common stock.

Special Stockholder Meetings. The Bylaws provide that a special meeting of stockholders may be called by (i) the Chairman of the Board, if any, (ii) the President or Chief Executive Officer, or (iii) the Board pursuant to a resolution adopted by a majority of the total number of directors then in office.

Requirements for Advance Notification of Stockholder Nominations and Proposals. The Bylaws establish advance notice procedures with respect to stockholder proposals and the nomination of candidates for election as directors.

## Composition of the Board of Directors; Election and Removal of Directors; Filling Vacancies

The Company's Board consists of five directors and the Board may, from time to time, fix the authorized number of directors by resolution of the Board. The Board is divided into three classes, designated Class I, Class II and Class III. Directors need not be stockholders of the Company.

Directors shall serve for a term ending on the date of the third annual meeting of stockholders following the annual meeting of stockholders at which such director was elected. The term of each director shall continue until the election and qualification of his or her successor and be subject to his or her earlier death, disqualification, resignation or removal. Except as otherwise provided by the DGCL, the Certificate of Incorporation or the Bylaws, directors shall be elected by a plurality of the votes of the shares present in person, by remote communication, if applicable, or represented by a duly authorized and executed proxy at the meeting and entitled to vote on the election of directors.

Subject to applicable law or by the Certificate of Incorporation, any director of the entire Board of the Company may be removed without cause by the affirmative vote of a majority of the holders of the Company's then-outstanding common stock entitled to vote generally at an election of directors. Furthermore, any vacancy on the Company's Board, however occurring, including a vacancy resulting from an increase in the size of the board, may be filled only by a majority vote of the Board then in office, even if less than a quorum, or by the sole remaining director.

Amendment of the Certificate of Incorporation and Bylaws. The Certificate of Incorporation may be amended in any manner permitted under the DGCL and the Bylaws may be amended by the vote or written consent of holders of a majority of the outstanding shares entitled to vote. The Board may also amend the Bylaws, other than a bylaw or amendment thereof specifying or changing a fixed number of directors or the maximum or minimum number or changing from a fixed to a variable board or vice versa.

## Limitations of Liability and Indemnification Matters

Each of the Certificate of Incorporation and Bylaws provide that the Company is required to indemnify its directors and officers to the fullest extent not prohibited by Delaware law. The Bylaws also obligate the Company to advance expenses incurred by a director or officer in advance of the final disposition of any action

or proceeding upon delivery to the Company of an undertaking, by or on behalf of such indemnitee, to repay all amounts so advanced if it shall ultimately be determined by final judicial decision, from which there is no further right to appeal, that such indemnitee is not entitled to be indemnified for such expenses.

To the fullest extent permitted by the DGCL, or any other applicable law, the Company, upon approval by the Board, may purchase insurance on behalf of any person required or permitted to be indemnified pursuant to the Bylaws.

#### Forum for Adjudication of Disputes

The Certificate of Incorporation provides that, unless the Company consents in writing to the selection of an alternative forum, the sole and exclusive forum for (i) derivative actions or proceedings brought on behalf of the Company, (ii) any action asserting a claim of breach of fiduciary duty owed by any director, officer or employee of the Company to the Company or the Company's stockholders, (iii) an action asserting a claim arising pursuant to any provision of the DGCL, or (iv) any action asserting a claim governed by the internal affairs doctrine shall be a state or federal court located within the state of Delaware. The Certificate of Incorporation further provides that the federal district courts of the United States of America shall, to the fullest extent permitted by law, be the exclusive forum for any complaint asserting a cause of action arising under the Securities Act.

## Transfer Agent, Warrant Agent and Registrar

The transfer agent, warrant agent and registrar for the Company's common stock is Computershare Trust Company, N.A. The transfer agent, warrant agent and registrar's address is 250 Royall St., Canton, Massachusetts 02021. Listing. Our common stock is listed on Nasdaq under the symbol "BNTC."

# MATERIAL UNITED STATES FEDERAL INCOME TAX CONSIDERATIONS FOR HOLDERS OF OUR COMMON STOCK, COMMON WARRANTS AND PRE-FUNDED WARRANTS

The following discussion is a summary of the material U.S. federal income tax considerations to U.S. Holdersand Non-U.S. Holders (each as defined below and, together "Holders") of the purchase, ownership and disposition of our common stock, common warrants and pre-funded warrants that are issued pursuant to this offering. This does not purport to be a complete analysis of all potential tax effects to Holders of purchasing, owning or disposing our common stock, common warrants or pre-funded warrants. The effects of other U.S. federal tax laws, such as estate and gift tax laws, and any applicable state, local or foreign tax laws are not included in this discussion, and Holders should consult their own tax advisors as to these matters. This discussion is based on the Internal Revenue Code of 1986, as amended (the "Code"), final, temporary and proposed Treasury Regulations promulgated thereunder, judicial decisions and administrative pronouncements of the IRS, in effect as of the date of this offering. These authorities may change or be subject to differing interpretations. Any such change may be applied retroactively in a manner that could adversely affect a Holder. We have not sought and will not seek any rulings from the IRS regarding the matters discussed below. There can be no assurance that the IRS will not take or that a court will not uphold a contrary position regarding the tax consequences of the purchase, ownership and disposition of our common stock, common warrants and pre-funded warrants.

This discussion is limited to Holders that hold our common stock, common warrantsand pre-funded warrants as "capital assets" within the meaning of Section 1221 of the Code (generally, property held for investment). This discussion does not address all U.S. federal income tax consequences relevant to a Holder's particular circumstances. In addition, it does not address consequences relevant to Holders subject to special rules, including, without limitation:

- banks, insurance companies and other financial institutions;
- real estate investment trusts, regulated investment companies, and other entities treated as conduits for U.S. federal income tax purposes;
- brokers, dealers or traders in securities;
- Holders who are subject to the mark-to-market accounting rules under Section 475 of the Code;
- "controlled foreign corporations," "passive foreign investment companies" and corporations that accumulate earnings to avoid U.S. federal income tax;
- partnerships or other entities or arrangements treated as partnerships for U.S. federal income tax purposes;
- tax-exempt organizations and governmental organizations or agencies;
- Holders who hold or receive our common stock, common warrantsor pre-funded warrants pursuant to the exercise of any employee stock option or otherwise as compensation;
- tax-qualified retirement plans;
- "qualified foreign pension funds" as defined in Section 897(l)(2) of the Code and entities all of the interests of which are held by qualified foreign pension funds;
- U.S. expatriates and certain former citizens or long-term residents of the United States;
- U.S. Holders whose functional currency is not the United States dollar;
- Holders deemed to sell the our common stock, common warrantsor pre-funded warrants under the constructive sale provisions of the Code;
- Holders for whom our common stock, common warrantsand pre-funded warrants constitute "qualified small business stock" within the meaning of Section 1202 of the Code;

- Holders subject to special tax accounting rules as a result of any item of gross income with respect to the stock being taken into account in an "applicable financial statement" (as defined in the Code);
- Holders holding our common stock, common warrants or pre-funded warrants as part of a hedge, straddle or other risk reduction strategy or as part of a conversion transaction or other integrated investment; and
- Holders subject to the alternative minimum tax.

If a partnership (or other entity or arrangement treated as a partnership for U.S. federal income tax purposes) holds our common stock, common warrants or pre-funded warrants, the tax treatment of a partner in the partnership will depend on the status of the partner, the activities of the partnership and certain determinations made at the partner level. Accordingly, partnerships holding our common stock, common warrants or pre-funded warrants and the partners in such partnerships should consult their own tax advisors regarding the U.S. federal income tax consequences to them.

THIS DISCUSSION IS FOR INFORMATION PURPOSES ONLY AND IS NOT INTENDED AS TAX ADVICE. INVESTORS SHOULD CONSULT THEIR OWN TAX ADVISORS WITH RESPECT TO THE APPLICATION OF THE U.S. FEDERAL INCOME TAX LAWS TO THEIR PARTICULAR SITUATIONS AS WELL AS ANY TAX CONSEQUENCES OF THE PURCHASE, OWNERSHIP AND DISPOSITION OF OUR COMMON STOCK, COMMON WARRANTS OR PRE-FUNDED WARRANTS ARISING UNDER THE U.S. FEDERAL ESTATE OR GIFT TAX LAWS OR UNDER THE LAWS OF ANY STATE, LOCAL OR NON-U.S. TAXING JURISDICTION OR UNDER ANY APPLICABLE INCOME TAX TREATY.

#### Characterization of the Pre-funded Warrants

Although the characterization of the pre-funded warrants for U.S. federal income tax purposes is not entirely clear, because the exercise price of the pre-funded warrants is a nominal amount, the Company expects to treat the pre-funded warrants as common stock of the Company for U.S. federal income tax purposes. Except where noted, the remainder of this discussion assumes that the pre-funded warrants will be so treated. Each Holder should consult its own tax advisor regarding the proper characterization of the pre-funded warrants for U.S. federal, state and local, and non-U.S. tax purposes, and the consequences to them of such treatment given their individual circumstances. Some portions of the below discussion make reference to potential consequences associated with the purchase, ownership and disposition of the pre-funded warrants independent of their potential characterization as common shares.

#### Allocation of Purchase Price

Each purchaser of shares of our commonstock or pre-funded warrants must allocate its purchase price for suchshares or pre-funded warrants between each share or pre-funded warrant, as applicable and the accompanying common warrant based on the respective relative fair market values of each at the time of issuance. This allocation of the purchase price will establish the Holder's initial tax basis for U.S. federal income tax purposes for each share of our common stock, pre-funded warrant and common warrant. A Holder's allocation of the purchase price among the shares of our common stock, pre-funded warrants and common warrants is not binding on the IRS or the courts, and no assurance can be given that the IRS or the courts will agree with a Holder's allocation. Each Holder should consult its tax advisor regarding the allocation of the purchase price among the shares of our common stock, pre-funded warrants and common warrants.

## U.S. Holders

For purposes of this discussion, a "U.S. Holder" is any beneficial owner of Securities that is, for U.S. federal income tax purpose For purposes of this discussion, a "U.S. Holder" is any beneficial owner of Securities that is, for U.S. federal income tax purposes:

an individual who is a citizen or resident of the United States;

- a corporation (or other entity treated as a corporation for U.S. federal income tax purposes) created or organized under the laws of the United States, any state thereof, or the District of Columbia;
- an estate, the income of which is subject to U.S. federal income tax regardless of its source; or
- a trust that (i) is subject to the primary supervision of a U.S. court and the control of one or more U.S. persons (within the meaning of Section 7701(a)(30) of the Code), or (ii) has made a valid election under applicable Treasury Regulations to continue to be treated as a U.S. person.

If you are not a U.S. Holder, this section does not apply to you. Please see the discussion under "Non-U.S. Holders" below.

## Distributions on Common Stock

As described in the section captioned "Dividend Policy," we do not anticipate declaring or paying distributions to Holders of our common stock in the foreseeable future. However, distributions (including constructive distributions as described below), if any, on our common stock generally will constitute dividends for U.S. federal income tax purposes to the extent paid from our current or accumulated earnings and profits, as determined under U.S. federal income tax principles.

Distributions in excess of current and accumulated earnings and profits will constitute a return of capital that will be applied against and reduce (but not below zero) the U.S. Holder's adjusted tax basis in our common stock. Any remaining excess will be treated as gain realized on the sale or other disposition of the common stock and will be treated as described under "U.S. Holders—Sale or Other Taxable Disposition of Common Stock, Common Warrants or Pre-funded Warrants" below.

Dividends we pay to a U.S. Holder that is a taxable corporation generally will qualify for the dividends received deduction if the requisite holding period is satisfied. With certain exceptions (including, but not limited to, dividends treated as investment income for purposes of investment interest deduction limitations), and provided the common shares are held for more than 60 days during the 121-day period beginning 60 days before the ex- dividend date and certain other holding period requirements are met, dividends we pay to a non-corporate U.S. Holder generally will constitute "qualified dividends" that will be subject to tax at the maximum tax rate accorded to long-term capital gains. Dividends paid by us will generally be treated as income from U.S. sources. U.S. Holders should consult their own tax advisors regarding the holding period and other requirements that must be satisfied in order to qualify for the reduced maximum tax rate on dividends.

### Sale or Other Taxable Disposition of Common Stock, Common Warrants or Pre-funded Warrants

Upon a sale, exchange or other taxable disposition of common stock, common warrantsor pre-funded warrants, a U.S. Holder generally will recognize capital gain or loss in an amount equal to the difference between the amount realized and the U.S. Holder's adjusted tax basis in the common stock, common warrant or pre-funded warrant, as the case may be. A U.S. Holder's adjusted tax basis in the common stock generally will equal the U.S. Holder's acquisition cost of such security less, in the case of common stock (and potentially a pre-funded warrant and/or a common warrant) and as described further above, the amount of any prior distributions treated as a return of capital on such stock. If a U.S. Holder purchases or sells common stock, common warrants and/or pre-funded warrants together in a single transaction in which the purchase price for each of the common stock, common warrants and/or pre-funded warrants was not separately stated, the U.S. Holder generally would be required to allocate the purchase price among the subject securities so acquired or disposed of, as applicable, based on the relative fair market values of each (at the time of the acquisition or disposition, as applicable). U.S. Holders who purchase or sell common stock, common warrants and/or pre-funded warrants in a single transaction should consult with their tax advisors regarding such allocation.

Any such capital gain or loss generally will be long-term capital gain or loss if the U.S. Holder's holding period for the common stock, common warrants or pre-funded warrants disposed of exceeds one year. Long-term

capital gains recognized by non-corporate U.S. Holders will be eligible to be taxed at reduced rates. The deductibility of capital losses is subject to limitations

#### Exercise of a Common Warrant or a Pre-funded Warrant

A U.S. Holder generally will not recognize taxable gain or loss on the acquisition of common stock upon exercise of a common warrant or pre-funded warrant. The U.S. Holder's aggregate tax basis in the share of our common stock received upon exercise generally will be an amount equal to the sum of the U.S. Holder's tax basis in the common warrant or pre-funded warrant prior to exercise and the common warrant's orpre-funded warrant's exercise price. Provided that a pre-funded warrant is treated as our common stock, a U.S. Holder's holding period for the common stock received upon exercise of a pre-funded warrant will include the holding period for the pre-funded warrant. On the other hand, in the case of a common warrant, and also if the pre-funded warrant is treated as an option to purchase our stock, a U.S. Holder's holding period for the common stock received upon exercise will begin on the date following the date of exercise of the common warrant (or the pre-funded warrant, as applicable) and will not include the period during which the U.S. Holder held the common warrant (or the pre-funded warrant, as applicable).

A U.S. Holder may be permitted to undertake a cashless exercise of common warrants orpre-funded warrants into our common stock. The U.S. federal income tax treatment of a cashless exercise is unclear, and the tax consequences of a cashless exercise could differ from the consequences of an exercise described above. For example, the cashless exercise could be treated as a taxable disposition of a portion of the common warrants, pre-funded warrants or the common shares into which they are exercisable. U.S. Holders should consult their own tax advisors regarding the U.S. federal income tax consequences of a cashless exercise.

## Lapse of Common Warrants

Upon the lapse or expiration of a common warrant, a U.S. Holder will recognize a loss in an amount equal to such U.S. holder's tax basis in the common warrant. Any such loss generally will be a capital loss and will be long-term capital loss if the common warrant is held for more than one year. The deductibility of capital losses is subject to limitations.

# Certain Adjustments to the Common Warrants and Pre-funded Warrants, and Payments in Respect of the Common Warrants and Pre-funded Warrants

Under Section 305 of the Code, an adjustment to the number of shares of common stock that will be issued on the exercise of the common warrants or pre-funded warrants, or an adjustment to the exercise price of the common warrants or pre-funded warrants, may be treated as a constructive distribution to a U.S. Holder of the common warrants or pre-funded warrants if, and to the extent that, such adjustment has the effect of increasing such U.S. Holder's proportionate interest in our "earnings and profits" or assets, depending on the circumstances of such adjustment (for example, if such adjustment is to compensate for a distribution of cash or other property to our shareholders). Adjustments to the exercise price of common warrants or pre-funded warrants made pursuant to a *bona fide* reasonable adjustment formula that has the effect of preventing dilution of the interest of the U.S. Holder of the common warrants or pre-funded warrants generally should not be considered to result in a constructive distribution. Any constructive distribution would be treated as a dividend, return of capital or capital gain as described under the heading "U.S. Holder—Distributions on Common Stock" above, and could be taxable whether or not there is an actual distribution of cash or other property. U.S. Holders should consult their tax advisors regarding the proper treatment of any adjustments to and payments in respect of common warrants or pre-funded warrants.

### Net investment income tax

An additional 3.8% tax is imposed on the "net investment income" of non-corporate U.S. Holders, and on the undistributed "net investment income" of certain estates and trusts. Among other items, "net investment income" generally includes dividends paid on our common stock and certain net gain from the sale or other

taxable disposition of our common stock, common warrants and pre-funded warrants, less certain deductions. U.S. Holders should consult their own tax advisors concerning the potential effect, if any, of this tax on holding our common stock, common warrants and pre-funded warrants in such U.S. Holder's particular circumstances.

## Backup withholding and information reporting

For non-corporate U.S. Holders, information reporting requirements, on IRS Form 1099, generally will apply to:

- dividend payments or other taxable distributions on our common stock, common warrantsand pre-funded warrants made to the non-corporate U.S. Holder within the United States or by a United States payor; and
- the payment of proceeds to the non-corporate U.S. Holder from the sale of a share of common stock, common warrants
  or pre-funded warrants effected at a United States office of a broker or through certain U.S.-related financial intermediaries.

Additionally, backup withholding may apply to such payments if the non-corporate U.S. Holder:

- fails to provide an accurate taxpayer identification number;
- is notified by the IRS that it has failed to report all interest and dividends required to be shown on its U.S. federal income tax returns; or
- in certain circumstances, fails to comply with applicable certification requirements.

Backup withholding is not an additional tax. Any amounts withheld under the backup withholding rules may be allowed as a refund or a credit against a non-corporate U.S. Holder's U.S. federal income tax liability (if any), provided the required information is timely furnished to the IRS. U.S. Holders are urged to consult their own tax advisors regarding the application of backup withholding and the availability of and procedure for obtaining an exemption from backup withholding in their particular circumstances.

## Non-U.S. Holders

For purposes of this discussion, a Non-U.S. Holder is a beneficial owner of our common stock, common warrantor pre-funded warrants that, for U.S. federal income tax purposes, is neither a U.S. Holder (as defined above) nor a partnership or other pass-through entity. If you are not a Non-U.S. Holder, this section does not apply to you.

#### Distributions on Common Stock

As described in the section captioned "Dividend Policy," we do not anticipate declaring or paying distributions to Holders of our common stock in the foreseeable future. However, distributions, if any, on our common stock in cash will generally constitute dividends for U.S. federal income tax purposes to the extent paid from our current or accumulated earnings and profits, as determined under U.S. federal income tax principles. Amounts not treated as dividends for U.S. federal income tax purposes will constitute a return of capital and first be applied against and reduce a Non-U.S. Holder's adjusted tax basis in its common stock, but not below zero. Any excess will be treated as capital gain and will be treated as described below under "Non-U.S. Holders—Sale or Other Taxable Disposition of Common Stock, Common Warrants or Pre-Funded Warrants."

Subject to the discussion below regarding backup withholding and payments made to certain foreign accounts, dividends paid to a Non-U.S. Holder of our common stock (including constructive distributions treated as a dividend) that are not effectively connected with the Non-U.S. Holder's conduct of a trade or business within the United States will be subject to U.S. federal withholding tax at a rate of 30% of the gross amount of the dividends (or such lower rate as may be specified by an applicable income tax treaty).

Non-U.S. Holders may be entitled to a reduction in or an exemption from withholding on dividends as a result of either (i) qualifying for the benefits of an applicable income tax treaty or (ii) the Non-U.S. Holder holding our common stock in connection with the conduct of a trade or business within the United States and dividends being paid in connection with that trade or business. To claim such a reduction in or exemption from withholding, the Non-U.S. Holder must provide the applicable withholding agent with a properly executed (i) IRSForm W-8BEN or W-8BEN-E (or applicable successor form) claiming an exemption from or reduction of the withholding tax under the benefit of an applicable income tax treaty, (ii) IRS Form W-8ECI (or applicable successor form) stating that the dividends are effectively connected with the conduct by the Non-U.S. Holder of a trade or business within the United States, or (iii) a suitable substitute form, as may be applicable. These certifications must be provided to the applicable withholding agent prior to the payment of dividends and must be updated periodically. Non-U.S. Holders that do not timely provide the applicable withholding agent with the required certification, but that qualify for a reduced rate under an applicable income tax treaty, may obtain a refund of any excess amounts withheld by timely filing an appropriate claim for refund with the IRS.

Subject to the discussion below regarding backup withholding and payments made to certain foreign accounts, if dividends paid to a Non-U.S. Holder are effectively connected with the Non-U.S. Holder's conduct of a trade or business within the United States (or, if required by an applicable income tax treaty, the Non-U.S. Holder maintains a permanent establishment in the United States to which such dividends are attributable), then, although generally exempt from U.S. federal withholding tax (provided the Non-U.S. Holder provides appropriate certification, as described above), the Non-U.S. Holder will be subject to U.S. federal income tax on such dividends on a net income basis at the regular graduated U.S. federal income tax rates. In addition, a Non-U.S. Holder that is or is treated as a corporation for U.S. federal income tax purposes may be subject to an additional branch profits tax at a rate of 30% (or such lower rate specified by an applicable income tax treaty) on its effectively connected earnings and profits for the taxable year that are attributable to such dividends, as adjusted for certain items. Non-U.S. Holders should consult their own tax advisors regarding their entitlement to benefits under any applicable income tax treaty.

## Sale or Other Taxable Disposition of Common Stock, Common Warrants or Pre-funded Warrants

Subject to the discussion below regarding backup withholding and payments made to certain foreign accounts, a Non-U.S. Holder generally will not be subject to U.S. federal income tax on any gain recognized upon the sale or other taxable disposition of a share of our common stock, common warrants or pre-funded warrants unless:

- the gain is effectively connected with the Non-U.S. Holder's conduct of a trade or business within the United States (or, if required by an
  applicable income tax treaty, the Non-U.S. Holder maintains a permanent establishment in the United States to which such gain is
  attributable);
- the Non-U.S. Holder is a non-resident alien individual present in the United States for 183 days or more during the taxable year of the disposition and certain other requirements are met; or
- we are or have been a "U.S. real property holding corporation," or USRPHC, for U.S. federal income tax purposes at any time during the shorter of the five-year period ending on the date of disposition or the period that the Non-U.S. Holder held the common stock, common warrants or pre-funded warrants.

Gain described in the first bullet point above will generally be subject to U.S. federal income tax on a net income basis at the regular graduated U.S. federal income tax rates. A Non-U.S. Holder that is a foreign corporation also may be subject to an additional branch profits tax at a rate of 30% (or such lower rate specified by an applicable income tax treaty) on a portion of its effectively connected earnings and profits for the taxable year, as adjusted for certain items.

A Non-U.S. Holder described in the second bullet point above will be subject to U.S. federal income tax at a rate of 30% (or such lower rate as may be specified by an applicable income tax treaty) on any gain derived from the sale or other taxable disposition, which may be offset by certain U.S. source capital losses of the Non-U.S.

Holder (even though the individual is not considered a resident of the United States) provided the Non-U.S. Holder timely files U.S. federal income tax returns with respect to such losses.

With respect to the third bullet point above, we believe that we are not, and do not anticipate that we will become, a USRPHC.

The method of determining the amount of gain by a Non-U.S. Holder on disposition of the common stock, common warrants or pre-funded warrants generally will correspond to the method of determining the amount of gain (or loss) by a U.S. Holder on disposition of the common stock, common warrants or pre-funded warrants, as described under "U.S. Holders—Sale or Other Taxable Disposition of Common Stock, Common Warrants or Pre-funded Warrants" above. Non-U.S. Holders should consult their own tax advisors regarding potentially applicable income tax treaties that may provide for different rules, and the potential application of other exceptions to these taxes.

### Exercise of a Common Warrant or Pre-funded Warrant

For certain Non-U.S. Holders engaged in the conduct of a trade or business in the United States, the U.S. federal income tax treatment of the exercise of a common warrant or pre-funded warrant, generally will correspond to the U.S. federal income tax treatment of the exercise of a common warrant or pre-funded warrant by a U.S. Holder, as described under "U.S. Holders — Exercise of a Common Warrant or Pre-funded Warrant" above. For all other Non-U.S. holders, the exercise of a common warrant or pre-funded warrant generally will not be a U.S. taxable event.

## Lapse of a Common Warrant

Upon the lapse or expiration of a common warrant, a Non-U.S. Holder will recognize a loss in an amount equal to suchNon-U.S. Holder's tax basis in the common warrant. Any such loss generally will be a capital loss and will be long-term capital loss if the common warrant is held for more than one year. The deductibility of capital losses is subject to limitations.

# Certain Adjustments to the Common Warrants and Pre-funded Warrants and Payments in Respect of the Common Warrants and Pre-funded Warrants

Under Section 305 of the Code, an adjustment to the number of shares of common stock that will be issued on the exercise of the common warrants or pre-funded warrants, or an adjustment to the exercise price of the common warrants or pre-funded warrants, may be treated as a constructive distribution to a Non-U.S. Holder of the common warrants or pre-funded warrants if, and to the extent that, such adjustment has the effect of increasing such Non-U.S. Holder's proportionate interest in our "earnings and profits" or assets, depending on the circumstances of such adjustment (for example, if such adjustment is to compensate for a distribution of cash or other property to our shareholders). Adjustments to the exercise price of common warrants or pre-funded warrants made pursuant to a *bona fide* reasonable adjustment formula that has the effect of preventing dilution of the interest of the Non-U.S. Holder of the common warrants or pre-funded warrants generally should not be considered to result in a constructive distribution. Any constructive distribution would be treated as a dividend, return of capital or capital gain as described under the heading "Non-U.S. Holders—Distributions on Common Stock" above, and could be taxable whether or not there is an actual distribution of cash or other property.

In addition, regulations governing "dividend equivalents" under Section 871(m) of the Code may apply to the common warrants or pre-funded warrants. Under those regulations, an implicit or explicit payment under the common warrants orpre-funded warrants that references a dividend distribution on our common stock (including an adjustment to the amount due on the common warrant or pre-funded warrant to take into account a dividend distribution on our common stock) would be taxable to a Non-U.S. Holder as described under the

heading "Non-U.S. Holders—Distributions on Common Stock" above. Such dividend equivalent amount would be taxable and subject to withholding whether or not there is actual payment of cash or other property, and the Company may satisfy any withholding obligations it has in respect of the common warrants or pre-funded warrants by withholding from other amounts due to the Non-U.S. Holder. Non-U.S. Holders are encouraged to consult their own tax advisors regarding the application of Section 871(m) of the Code to the common warrants or pre-funded warrants.

#### Information Reporting and Backup Withholding

Subject to the discussion below regarding payments made to certain foreign accounts, a Non-U.S. Holder generally will not be subject to backup withholding with respect to payments of dividends on our common stock we make to the Non-U.S. Holder, provided the applicable withholding agent does not have actual knowledge or reason to know such Holder is a U.S. person and the Holder certifies its non-U.S. status by providing a valid IRS Form W-8BEN, W-8BEN-E or W-8ECI, or other applicable certification (or applicable successor form), or otherwise establishes an exception. However, information returns will be filed with the IRS in connection with any dividends or other distributions on our common stock paid to the Non-U.S. Holder (including constructive distributions), regardless of whether any tax was actually withheld. Copies of these information returns may also be made available under the provisions of a specific treaty or agreement to the tax authorities of the country in which the Non-U.S. Holder resides or is established.

Information reporting and backup withholding may apply to the proceeds of a sale of a share of our common stock, common warrants or pre-funded warrants within the United States, and information reporting may (although backup withholding will generally not) apply to the proceeds of the sale of a share of our common stock, common warrants or pre-funded warrants outside the United States conducted through certain U.S.-related financial intermediaries, in each case, unless the beneficial owner certifies under penalty of perjury that it is a Non-U.S. person on IRS Form W-8BEN or other applicable form or successor form (and the payor does not have actual knowledge or reason to know that the beneficial owner is a U.S. person) or otherwise establishes an exemption.

Backup withholding is not an additional tax. Any amounts withheld under the backup withholding rules may be allowed as a refund or a credit against a Non-U.S. Holder's U.S. federal income tax liability (if any), provided the required information is timely furnished to thdRS. Non-U.S. Holders are urged to consult their own tax advisors regarding the application of backup withholding and the availability of and procedure for obtaining an exemption from backup withholding in their particular circumstances.

## Additional Withholding Tax on Payments Made to Foreign Accounts

Withholding taxes may be imposed under the provisions of the law generally known as the Foreign Account Tax Compliance Act, or FATCA, on certain types of payments made to non-U.S. financial institutions and certain other non-U.S. entities. Specifically, a 30% withholding tax may be imposed on dividends (including constructive dividends) paid on our common stock, common warrants or pre-funded warrants, or (subject to the proposed Treasury Regulations discussed below) gross proceeds from the sale or other disposition of our common stock, common warrants or pre-funded warrants paid to a "foreign financial institution" or a "non-financial foreign entity" (each as defined in the Code), unless (i) the foreign financial institution undertakes certain diligence and reporting obligations, (ii) the non-financial foreign entity either certifies it does not have any "substantial U.S. owners" (as defined in the Code) or furnishes identifying information regarding each substantial U.S. owner, or (iii) the foreign financial institution or non-financial foreign entity otherwise qualifies for an exemption from these rules. If the payee is a foreign financial institution and is subject to the diligence and reporting requirements in (i) above, it must enter into an agreement with the U.S. Department of the Treasury requiring, among other things, that it undertake to identify accounts held by certain "specified U.S. persons" or "U.S.-owned foreign entities" (each as defined in the Code), annually report certain information about such accounts and withhold 30% on payments to non-compliant foreign financial institutions and certain

other account holders. An intergovernmental agreement between the United States and an applicable foreign country, or future Treasury Regulations or other guidance, may modify these requirements.

Under the applicable Treasury Regulations and guidance from the IRS, withholding under FATCA generally applies to payments of dividends (including constructive dividends) on our common stock, common warrants or pre-funded warrants. The FATCA withholding tax will apply to all withholdable payments without regard to whether the beneficial owner of the payment would otherwise be entitled to an exemption from imposition of withholding tax pursuant to an applicable tax treaty with the United States or U.S. domestic law. We will not pay additional amounts to Holders of our common stock, common warrants or pre-funded warrants in respect of any amounts withheld. Proposed Treasury Regulations eliminate FATCA withholding on payments of gross proceeds from the sale or other disposition of common stock, common warrants or pre-funded warrants entirely. Taxpayers generally may rely on these proposed Treasury Regulations until final Treasury Regulations are issued.

Prospective investors should consult their own tax advisors regarding the potential application of withholding under FATCA to their investment in our common stock, common warrants and pre-funded warrants.

## UNDERWRITING

JMP Securities LLC is acting as the representative of each of the underwriters named below. Subject to the terms and conditions set forth in an underwriting agreement among us and the underwriters, we have agreed to sell to the underwriters, and each of the underwriters has agreed, severally and not jointly, to purchase from us, the number of shares of common stock set forth opposite its name below.

<u>Underwriter</u>	Number of Shares and <u>Warrants</u>
Total	

Subject to the terms and conditions set forth in the underwriting agreement, the underwriters have agreed, severally and not jointly, to purchase all of the securities sold under the underwriting agreement if any are purchased other than those shares and/or common warrants covered by the over-allotment option described below. If an underwriter defaults, the underwriting agreement provides that the purchase commitments of the non-defaulting underwriters may be increased.

We have agreed to indemnify the several underwriters against certain liabilities including liabilities under the Securities Act, or to contribute to payments the underwriters may be required to make in respect of those liabilities.

The underwriters are offering the securities, subject to prior sale, when, as and if issued to and accepted by them, subject to approval of legal matters by their counsel, including the validity of the securities, and other conditions contained in the underwriting agreement, such as the receipt by the underwriters of officer's certificates and legal opinions. The underwriters reserve the right to withdraw, cancel or modify offers to the public and to reject orders in whole or in part.

#### **Commissions and Discounts**

The representative has advised us that the underwriters propose initially to offer the securities to the public at the public offering price set forth on the cover page of this prospectus and to dealers at that price less a concession not in excess of \$ per share. After this public offering, the representative may change the public offering price and concession and discount to dealers.

The following table shows the public offering price, underwriting discount and proceeds, before expenses, to us. The information assumes either no exercise or full exercise by the underwriters of their over-allotment option.

			With
	Per Share		Option
	and	Without	Exercised
	Warrant	Option	in Full
Public offering price			
Underwriting discount			
Proceeds, before expenses, to us			

We have agreed to pay the representative's out-of-pocket accountable expenses, including its legal fees, up to a maximum amount of \$125,000. The estimated expenses of this offering payable by us, exclusive of the underwriting discount, are approximately \$ .

## **Over-allotment Option**

We have granted an option to the underwriters to purchase up to up to an additional warrants to purchase up to shares of up to an additional warrants to purchase up to shares of

#### Right of First Refusal

In connection with this offering, we granted to JMP Securities LLC, for the twelve (12) month period following the commencement of sales of securities, a right of first refusal to act as sole lead manager, underwriter and/or placement agent for any and all future public or private equity, equity-linked, convertible and debt offerings (excluding commercial bank debt), with at least 50% of the economics provided to placement agents or underwriters, as applicable, during such twelve (12) month period by us, or any successor to or any subsidiary of our company subject to such procedures as agreed upon in the underwriting agreement entered into in connection with this offering.

#### No Sales of Similar Securities

We and each of our executive officers and directors have agreed with the underwriters not to offer, sell or otherwise dispose of any common stock or any securities convertible into or exercisable or exchangeable for or that represent the right to receive common stock or any rights to acquire common stock for a period of 90 days after the Company receives Stockholder Approval, with certain limited exceptions, without first obtaining the written consent of JMP Securities LLC, the representative of the underwriters. Specifically, we and these other persons have agreed, with certain limited exceptions, not to directly or indirectly:

- offer, pledge, sell or contract to sell any common stock;
- · sell any option or warrant to purchase any common stock;
- · purchase any option or warrant to sell any common stock;
- grant any option or warrant for the sale of any common stock;
- · lend or otherwise transfer or dispose of any common stock;
- · exercise any right with respect to the registration of any common stock or other securities; or
- enter into any swap or other agreement or transaction that transfers, in whole or in part, directly or indirectly, the economic consequence of
  ownership of any common stock whether any such swap, agreement or transaction is to be settled by the delivery of shares of common stock
  or other securities, in cash or otherwise.

This lock-up provision applies to common stock and to securities convertible into or exchangeable or exercisable for or that represent the right to receive common stock. It also applies to common stock owned now or acquired later by the person executing the agreement or for which the person executing the agreement later acquires the power of disposition.

## Listing on Nasdaq

Our common stock is listed on Nasdaq under the symbol "BNTC". We do not intend to apply for the listing of the common warrants or the pre-funded warrants on any national securities exchange or other nationally recognized trading system, including Nasdaq.

## **Discretionary Sales**

The underwriters do not expect to sell more than 5% of the shares sold in this offering in the aggregate to accounts over which they exercise discretionary authority.

#### Price Stabilization, Short Positions and Penalty Bids

Until the distribution of our shares of common stock is completed, SEC rules may limit underwriters and selling group members from bidding for and purchasing our common stock. However, the representative may engage in transactions that stabilize the price of the common stock, such as bids or purchases to peg, fix or maintain that price.

In connection with this offering, the underwriters may purchase and sell our common stock in the open market. These transactions may include short sales, purchases on the open market to cover positions created by short sales and stabilizing transactions. Short sales involve the sale by the underwriters of a greater number of shares of our common stock than they are required to purchase in this offering. "Covered" short sales are sales made in an amount not greater than the underwriters' over-allotment option described above. The underwriters may close out any covered short position by either exercising their over-allotment option or purchasing shares of our common stock in the open market. In determining the source of shares of our common stock to close out the covered short position, the underwriters will consider, among other things, the price of shares of our common stock available for purchase in the open market as compared to the price at which they may purchase shares of our common stock through the over-allotment option. "Naked" short sales are sales in excess of the over-allotment option. The underwriters must close out any naked short position by purchasing shares of our common stock in the open market. A naked short position is more likely to be created if the underwriters are concerned that there may be downward pressure on the price of our common stock in the open market after pricing that could adversely affect investors who purchase in this offering. Stabilizing transactions consist of various bids for or purchases of shares of our common stock made by the underwriters in the open market prior to the completion of this offering.

The underwriters may also impose a penalty bid. This occurs when a particular underwriter repays to the underwriters a portion of the underwriting discount received by it because the representative has repurchased shares sold by or for the account of such underwriter in stabilizing or short covering transactions.

Similar to other purchase transactions, the underwriters' purchases to cover the syndicate short sales may have the effect of raising or maintaining the market price of our common stock or preventing or retarding a decline in the market price of our common stock. As a result, the price of our common stock may be higher than the price that might otherwise exist in the open market. The underwriters may conduct these transactions on Nasdaq, in the over-the-counter market or otherwise.

Neither we nor any of the underwriters make any representation or prediction as to the direction or magnitude of any effect that the transactions described above may have on the price of our common stock. In addition, neither we nor any of the underwriters make any representation that the representative will engage in these transactions or that these transactions, once commenced, will not be discontinued without notice.

#### Electronic Offer, Sale and Distribution of Shares

In connection with this offering, certain of the underwriters or securities dealers may distribute prospectuses by electronic means, such aæ-mail. In addition, the underwriters may facilitate Internet distribution for this offering to certain of their Internet subscription customers. The underwriters may allocate a limited number of securities for sale to their online brokerage customers. An electronic prospectus is available on the Internet website maintained by the underwriters. Other than the prospectus in electronic format, the information on the underwriters' websites is not part of this prospectus.

## Other Relationships

In the ordinary course of their business activities, the underwriters and their affiliates may make or hold a broad array of investments and actively trade debt and equity securities (or related derivative securities) and

financial instruments (including bank loans) for their own account and for the accounts of their customers. Such investments and securities activities may involve securities and/or instruments of ours or our affiliates. The underwriters and their affiliates may also make investment recommendations and/or publish or express independent research views in respect of such securities or financial instruments and may hold, or recommend to clients that they acquire, long and/or short positions in such securities and instruments.

#### Sales Outside the United States

No action has been or will be taken in any jurisdiction (except in the United States) that would permit a public offering of the common stock, or the possession, circulation or distribution of this prospectus or any other material relating to us or the common stock in any jurisdiction where action for that purpose is required. Accordingly, the common stock may not be offered or sold, directly or indirectly, and neither of this prospectus nor any other offering material or advertisements in connection with the common stock may be distributed or published, in or from any country or jurisdiction except in compliance with any applicable rules and regulations of any such country or jurisdiction.

Each of the underwriters may arrange to sell common stock offered by this prospectus in certain jurisdictions outside the United States, either directly or through affiliates, where they are permitted to do so.

## Notice to Prospective Investors in Canada

These securities may be sold only to purchasers purchasing, or deemed to be purchasing, as principal that are: (i) accredited investors, as defined in National Instrument 45-106 Prospectus Exemptions (NI45-106) or Subsection 73.3(1) of the Securities Act (Ontario), and (ii) permitted clients, as defined in National Instrument 31-103 Registration Requirements, Exemptions and Ongoing Registrant Obligations. Any resale of the securities must be made in accordance with an exemption from, or in a transaction not subject to, the prospectus requirements of applicable securities laws.

Securities legislation in certain provinces or territories of Canada may provide a purchaser with remedies for rescission or damages if this prospectus (including any amendment thereto) contains a misrepresentation, provided that the remedies for rescission or damages are exercised by the purchaser within the time limit prescribed by the securities legislation of the purchaser's province or territory. The purchaser should refer to any applicable provisions of the securities legislation of the purchaser's province or territory for particulars of these rights or consult with a legal advisor.

Under Canadian Securities Law, National Instrument33-105 Underwriting Conflicts (NI 33-105) provides disclosure requirements with respect to certain potential conflicts of interest that may exist between an issuer and underwriters, dealers or placement agents, as the case may be. Pursuant to section 3A.3 of NI 33-105, we and the representative are not required to comply with the disclosure requirements of NI33-105 regarding underwriter conflicts of interest in connection with this offering.

We and the representative hereby notify prospective Canadian purchasers that: (a) we may be required to provide personal information pertaining to the purchaser as required to be disclosed in Schedule I of Form 45-106F1 under NI 45-106 (including its name, address, telephone number and the aggregate purchase price of any securities purchased), or personal information, which form 45-106F1 may be required to be filed by us under NI45-106, (b) such personal information may be delivered to the Ontario Securities Commission, or the OSC, in accordance with NI 45-106, (c) such personal information is collected indirectly by the OSC under the authority granted to it under the securities legislation of Ontario, (d) such personal information is collected for the purposes of the administration and enforcement of the securities legislation of Ontario, and (e) the public official in Ontario who can answer questions about the OSC's indirect collection of such personal information is the administrative support clerk at the OSC, Suite 1903, Box 55, 20 Queen Street West, Toronto, Ontario M5H 3S8, Telephone: (416) 593-3684. Prospective Canadian purchasers that purchase securities in this offering will be

deemed to have authorized the indirect collection of the personal information by the OSC, and to have acknowledged and consented to its name, address, telephone number and other specified information, including the aggregate purchase price paid by the purchaser, being disclosed to other Canadian securities regulatory authorities, and to have acknowledged that such information may become available to the public in accordance with requirements of applicable Canadian laws.

Upon receipt of this prospectus, each Canadian purchaser hereby confirms that it has expressly requested that all documents evidencing or relating in any way to the sale of the securities described herein (including for greater certainty any purchase confirmation or any notice) be drawn up in the English language only. Par la réception de ce document, chaque acheteur Canadien confirme par les présentes qu'il a expressément exigé que tous les documents faisant foi ou se rapportant de quelque manière que ce soit à la vente des valeurs mobilières décrites aux présentes (incluant, pour plus de certitude, toute confirmation d'achat ou tout avis) soient rédigés – anglais seulement.

## LEGAL MATTERS

The validity of the securities offered in this prospectus will be passed upon for us by Proskauer Rose LLP, Los Angeles, California. Ellenoff Grossman & Schole LLP, New York, New York, is acting as counsel for the underwriter in connection with this offering.

## **EXPERTS**

The consolidated financial statements of Benitec Biopharma Inc. as of and for the years ended June 30, 2022 and 2021 incorporated by reference in this registration statement, have been audited by Baker Tilly US, LLP, an independent registered public accounting firm, as set forth in their report thereon incorporated by reference in this registration statement, in reliance upon such report and upon the authority of said firm as experts in accounting and auditing.

#### WHERE YOU CAN FIND MORE INFORMATION

We have filed with the SEC a registration statement on Form S-1 under the Securities Act with respect to the securities offered hereby. This prospectus, which constitutes a part of the registration statement, does not contain all of the information set forth in the registration statement or the exhibits and schedules filed therewith. For further information with respect to us and the securities offered hereby, reference is made to the registration statement and the exhibits and schedules filed therewith. Statements contained in this prospectus regarding the contents of any contract or any other document that is filed as an exhibit to the registration statement are not necessarily complete, and as such we refer you to the full text of such contract or other document filed as an exhibit to the registration statement. A copy of the registration statement and the exhibits and schedules filed therewith may be inspected without charge at the public reference room maintained by the SEC, located at 100 F Street N.E., Washington, D.C. 20549, and copies of all or any part of the registration statement may be obtained from such offices upon the payment of the fees prescribed by the SEC. Please call the SEC at 1-800-SEC-0330 for further information about the public reference room. The SEC also maintains a website that contains reports, proxy and information statements and other information regarding registrants that file electronically with the SEC. The Internet address is www.sec.gov.

We are subject to the information and periodic reporting requirements of the Exchange Act, and we file periodic reports, proxy statements and other information with the SEC. These periodic reports, proxy statements and other information are available for inspection and copying at the public reference room and website of the SEC referred to above. We maintain a website at www.benitec.com. You may access our annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K and amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) of the Exchange Act with the SEC free of charge at our website as soon as reasonably practicable after such material is electronically filed with, or furnished to, the SEC. Prior to the Re-domiciliation, Benitec Limited was a "foreign private issuer." Information concerning Benitec Limited, including its annual reports on Form 20-F and current reports on Form 6-K, is also available free of charge on our website. The information contained in, or that can be accessed through, our website is not incorporated by reference in, and is not part of, this prospectus, and any references to such website or any other website are inactive textual references only. You may also request a copy of these filings, at no cost, by writing us at 3940 Trust Way, Hayward, California 94545 or info@benitec.com or telephoning us at (510) 780-0819.

#### INCORPORATION OF DOCUMENTS BY REFERENCE

The SEC permits us to "incorporate by reference" the information contained in documents we file with the SEC, which means that we can disclose important information to you by referring you to those documents rather than by including them in this prospectus. Information that is incorporated by reference is considered to be part of this prospectus and you should read it with the same care that you read this prospectus. Information that we file later with the SEC will automatically update and supersede the information that is either contained, or incorporated by reference, in this prospectus, and will be considered to be a part of this prospectus from the date those documents are filed.

We incorporate by reference the following documents listed below (excluding any document or portion thereof to the extent such disclosure is furnished and not filed):

- Our Annual Report on Form 10-K for the fiscal year ended June 30, 2022 filed with the SEC on September 2, 2022; and
- Our Current Report on Form 8-K, filed with the SEC on September 7, 2022.

We also incorporate by reference all documents that we file with the SEC pursuant to Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act that are made after the initial filing date of the registration statement of which this prospectus is a part until this offering has been completed. All filings from the date of the initial registration statement and prior to effectiveness of the registration statement shall be deemed to be incorporated by reference into the prospectus. We are not, however, incorporating, in each case, any documents or information that we are deemed to furnish and not file in accordance with SEC rules.

You may request and obtain a copy of any of the filings incorporated herein by reference, at no cost, by writing or telephoning us at the following address or phone number:

Benitec Biopharma Inc. 3940 Trust Way Hayward, California 94545 (510) 780-0819 info@benitec.com

## 25,380,710 Shares of Common Stock or Pre-funded Warrants to Purchase 25,380,710 Shares of Common Stock and Common Warrants to Purchase 25,380,710 Shares of Common Stock Shares of Common Stock underlying the Pre-funded Warrants and Series 1 Common Warrants



\$20,000,000

PRELIMINARY PROSPECTUS

JMP Securities
A CITIZENS COMPANY

, 2022

# PART II INFORMATION NOT REQUIRED IN PROSPECTUS

## Item 13. Other Expenses of Issuance and Distribution

The following table sets forth the costs and expenses, other than the underwriting discounts and commissions, payable by the registrant in connection with the sale of common stock and pre-funded warrants being registered. All amounts are estimates except for the SEC registration fee and the Financial Industry Regulatory Authority, or FINRA, filing fee.

	Amount to be	
<u>Item</u>		paid
SEC registration fee	\$	4,264.20
FINRA filing fee	\$	7,400.00
Printing and engraving expenses	\$	5,000.00
Legal fees and expenses	\$	200,000.00
Accounting fees and expenses	\$	55,000.00
Transfer agent and warrant agent fees and expenses	\$	10,000.00
Miscellaneous fees and expenses	\$	13,500.00
Total	\$	295,164.20

#### Item 14. Indemnification of Directors and Officers

We are incorporated under the laws of the State of Delaware. Section 102 of the Delaware General Corporation Law permits a corporation to eliminate the personal liability of directors of a corporation to the corporation or its stockholders for monetary damages for a breach of fiduciary duty as a director, except where the director breached his or her duty of loyalty, failed to act in good faith, engaged in intentional misconduct or knowingly violated a law, authorized the payment of a dividend or approved a stock repurchase in violation of Delaware corporate law or obtained an improper personal benefit.

Section 145 of the Delaware General Corporation Law provides that a corporation has the power to indemnify any person who was or is a party or is threatened to be made a party to any threatened, pending or completed action or suit by or in the right of the corporation to procure a judgment in its favor by reason of the fact that the person is or was a director, officer, employee or agent of the corporation, or is or was serving at the request of the corporation as a director, officer, employee or agent of another corporation, partnership, joint venture, trust or other enterprise against expenses (including attorneys' fees) actually and reasonably incurred by the person in connection with the defense or settlement of such action or suit if the person acted in good faith and in a manner the person reasonably believed to be in or not opposed to the best interests of the corporation and except that no indemnification shall be made with respect to any claim, issue or matter as to which such person shall have been adjudged to be liable to the corporation unless and only to the extent that the Court of Chancery or the court in which such action or suit was brought shall determine upon application that, despite the adjudication of liability but in view of all the circumstances of the case, such person is fairly and reasonably entitled to indemnity for such expenses which the Court of Chancery or such other court shall deem proper.

As permitted by the Delaware General Corporation Law, our amended and restated certificate of incorporation includes a provision to eliminate the personal liability of our directors for monetary damages for breach of their fiduciary duties as directors, subject to certain exceptions. In addition, our amended and restated certificate of incorporation and amended and restated bylaws provide that we are required to indemnify our officers and directors under certain circumstances, including those circumstances in which indemnification would otherwise be discretionary, and we are required to advance expenses to our officers and directors as incurred in connection with proceedings against them for which they may be indemnified.

We have entered into indemnification agreements with our directors and executive officers. These indemnification agreements are not intended to deny or otherwise limit third-party or derivative suits against us or our directors or officers, but to the extent a director or officer were entitled to indemnity or contribution under our bylaws, the financial burden of a third-party suit would be borne by us, and we would not benefit from derivative recoveries against the director or officer. Such recoveries would accrue to our benefit but would be offset by our obligations to the director or officer under the indemnification agreement.

The underwriting agreement provides that the underwriter is obligated, under certain circumstances, to indemnify our directors, officers and controlling persons against certain liabilities, including liabilities under the Securities Act. Reference is made to the form of underwriting agreement to be filed as Exhibit 1.1 hereto.

We maintain directors' and officers' liability insurance for the benefit of our directors and officers.

#### Item 15. Recent Sales of Unregistered Securities

Over the past three years, the Company and Benitec Limited have issued and sold to third parties the securities listed below without registering the securities under the Securities Act of 1933, as amended (the "Securities Act"). None of these transactions involved any public offering. All the securities listed below were sold through private placement either (i) outside the United States or (ii) in the United States to a limited number of investors in transactions not involving any public offering. As discussed below, we believe that each issuance of these securities was exempt from, or not subject to, registration under the Securities Act.

On September 30, 2019, Benitec Limited entered into a securities purchase agreement ("SPA") with certain sophisticated and professional investors in the United States to issue 2,800,000 American Depositary Shares ("ADSs"), with each ADS representing 20 fully paid ordinary shares (which were converted to 186,666 shares of common stock as part of the Re-domiciliation), at a purchase price of US\$0.70 per ADS, in a registered direct offering. The Investors were also issued warrants to purchase up to 412,890 ADSs (representing 27,526 shares of common stock after the Re-domiciliation) in aggregate, at a purchase price per warrant equal to US\$0.6999 per ADS to be issued on exercise of the warrant ("Pre-Funded Warrants").

The Pre-Funded Warrants were exercisable at any time from issue, in whole or in part, at an exercise price of US\$0.0001 per ADS issued on exercise (subject to certain adjustments), provided that the beneficial ownership of the relevant Investor in the total number of ADSs on issue not exceed 9.99%. The Pre-Funded Warrants have all been exercised. This issuance was exempt from registration under the Securities Act in reliance on Section 4(a)(2).

On April 15, 2020, the Company completed the Re-domiciliation. In connection with the Re-domiciliation, Benitec issued 1,070,957 shares of common stock, on the basis of one share of common stock for every 300 ordinary shares of Benitec Limited issued and outstanding prior to the Re-domiciliation. The Re-domiciliation was effected pursuant to a statutory scheme of arrangement under Australian law (the "Scheme"). The issuance of Benitec's shares of common stock in the Scheme was exempt from registration under the Securities Act in reliance on Section 3(a)(10).

On April 22, 2020, Benitec issued 37,417 shares of common stock in connection with a cashless exercise of warrants exercisable for 107,095 shares of common stock. The issuance was exempt from registration under the Securities Act in reliance on Section 3(a)(9).

### Item 16. Exhibits and financial statement schedules

(a) Exhibits

The exhibits to the registration statement are listed in the Exhibit Index to this registration statement and are incorporated herein by reference.

#### Item 17. Undertakings

The undersigned Registrant hereby undertakes:

- (1) To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:
  - (i) To include any prospectus required by section 10(a)(3) of the Securities Act of 1933;
- (ii) To reflect in the prospectus any facts or events arising after the effective date of the registration statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the registration statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the Securities and Exchange Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than a 20% change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement: and
- (iii) To include any material information with respect to the plan of distribution not previously disclosed in the registration statement or any material change to such information in the registration statement.
- (2) That, for the purpose of determining any liability under the Securities Act of 1933, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.
- (3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.
  - (4) That, for the purpose of determining liability under the Securities Act of 1933 to any purchaser:
- (A) Each prospectus filed by the registrant pursuant to Rule 424(b)(3) shall be deemed to be part of the registration statement as of the date the filed prospectus was deemed part of and included in the registration statement; and
- (B) Each prospectus filed pursuant to Rule 424(b) as part of a registration statement relating to an offering, other than registration statements relying on Rule 430B or other than prospectuses filed in reliance on Rule 430A, shall be deemed to be part of and included in the registration statement as of the date it is first used after effectiveness. Provided, however, that no statement made in a registration statement or prospectus that is part of the registration statement or made in a document incorporated or deemed incorporated by reference into the registration statement or prospectus that is part of the registration statement will, as to a purchaser with a time of contract of sale prior to such first use, supersede or modify any statement that was made in the registration statement or prospectus that was part of the registration statement or made in any such document immediately prior to such date of first use.
- (5) That for the purpose of determining liability of the registrant under the Securities Act of 1933 to any purchaser in the initial distribution of securities, the undersigned registrant undertakes that in a primary offering of securities of the undersigned registrant pursuant to this registration statement, regardless of the underwriting method used to sell the securities to the purchaser, if the securities are offered or sold to such purchaser by means of any of the following communications, the undersigned registrant will be a seller to the purchaser and will be considered to offer or sell such securities to such purchaser:
  - (i) Any preliminary prospectus or prospectus of the undersigned registrant relating to the offering required to be filed pursuant to Rule 424;

- (ii) Any free writing prospectus relating to the offering prepared by or on behalf of the undersigned registrant or used or referred to by the undersigned registrant;
- (iii) The portion of any other free writing prospectus relating to the offering containing material information about the undersigned registrant or its securities provided by or on behalf of the undersigned registrant; and
  - (iv) Any other communication that is an offer in the offering made by the undersigned registrant to the purchaser.
- (6) Insofar as indemnification for liabilities arising under the Securities Act of 1933 may be permitted to directors, officers and controlling persons of the registrant pursuant to any charter provision, by law or otherwise, the registrant has been advised that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Securities Act of 1933 and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than payment by the registrant of expenses incurred or paid by a director, officer or controlling person of the registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Securities Act and will be governed by the final adjudication of such issue.
  - (7) The undersigned registrant hereby undertakes that:
- (i) For purposes of determining any liability under the Securities Act of 1933, each filing of the registrant's annual report pursuant to section 13(a) or section 15(d) of the Securities Exchange Act of 1934 (and, where applicable, each filing of an employee benefit plan's annual report pursuant to section 15(d) of the Securities Exchange Act of 1934) that is incorporated by reference in the registration statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof:
- (ii) For purposes of determining any liability under the Securities Act of 1933, the information omitted from the form of prospectus filed as part of this registration statement in reliance upon Rule 430A and contained in a form of prospectus filed by the registrant pursuant to Rule 424(b)(I) or (4) or 497(h) under the Securities Act shall be deemed to be part of this registration statement as of the time it was declared effective; and
- (iii) For the purpose of determining any liability under the Securities Act of 1933, each post-effective amendment that contains a form of prospectus shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

Exhibit Number	Exhibit
1.1**	Form of Underwriting Agreement
2.1	Amended and Restated Scheme Implementation Agreement (incorporated by reference to Exhibit 99.4 of the Current Report on Form 6-K of Benitec Biopharma Limited (File No. 001-37518) furnished on March 18, 2020)
3.1	Amended and Restated Certificate of Incorporation of Benitec Biopharma Inc. (incorporated by reference to Exhibit 3.1 to the Registrant's Form 8-K filed on April 15, 2020)
3.2	Certificate of Amendment to the Amended and Restated Certificate of Incorporation of Benitec Biopharma Inc., effective December 17, 2021 (incorporated by reference to Exhibit 3.1 to the Registrant's Form8-K filed on December 21, 2021)
3.3	Amended and Restated Bylaws of Benitec Biopharma Inc. (incorporated by reference to Exhibit 3.2 to the Registrant's Form 8-K filed on April 15, 2020)
4.1	Form of common stock certificate of Benitec Biopharma Inc. (incorporated by reference to Exhibit 4.1 to the Registrant's Form 8-K filed on April 15, 2020)
4.2**	Form of Pre-Funded Warrant
4.3**	Form of Common Warrant
4.4	Form of Purchase Warrant (incorporated by reference to Exhibit 99.4 of the Current Report onForm 6-K of Benitec Biopharma Limited (File No. 001-37518) furnished on September 30, 2019)
4.5*	Form of Warrant Agency Agreement, by and between Benitec Biopharma Inc. and Computershare Trust Company, N.A., as warrant agent
5.1**	Opinion of Proskauer Rose LLP
10.1	Share Subscription Agreement, dated October 24, 2016, between Nant Capital, LLC and Benitec Biopharma Limited (incorporated by reference to Exhibit 10.1 to the Registration Statement on Form F-3 of Benitec Biopharma Limited (File No. 333-218400) filed with the SEC on June 1, 2017)
10.2	Commercial Lease Agreement between Hayward Point Eden I Limited Partnership and Benitec Biopharma Limited (incorporated by reference to Exhibit 10.5 to the Registration Statement on Form F-1 of Benitec Biopharma Limited (File No. 333-205135) filed with the SEC on June 22, 2015)
10.3†	Employment agreement between Megan Boston and Benitec Biopharma Limited dated July 11, 2018 (incorporated by reference to Exhibit 10.3 to the Registration Statement on Form S-1 of Benitec Biopharma Inc. (File No. 333-246314) filed with the SEC on August 14, 2020)
10.4†	Employment agreement between Dr. Jerel A. Banks and Tacere Therapeutics, Inc. dated September 11, 2018 (incorporated by reference to Exhibit 10.4 to the Registration Statement on Form S-1 of Benitec Biopharma Inc. (File No. 333-246314) filed with the SEC on August 14, 2020)
10.5	Research Collaboration Agreement, dated January 27, 2017, between Benitec Biopharma Limited and Nant Capital, LLC (incorporated by reference to Exhibit 10.3 to the Registration Statement on Form F-3 filed with the SEC on June 1, 2017)
10.6	Form of Securities Purchase Agreement, dated September 30, 2019, between Benitec Biopharma Limited and the Purchasers (incorporated by reference to Exhibit 99.2 to Form 6-K of Benitec Biopharma Limited (File No. 001-37518) filed with the SEC on September 30, 2019)

Exhibit Number	Exhibit
10.7†	Form of Indemnification Agreement (incorporated by reference to Exhibit 10.1 to the Registrant's Form8-K filed on April 15, 2020)
10.8†	Benitec Officers' and Employees' Share Option Plan (incorporated by reference to Exhibit 4.2 of the Registration Statement on Form S-8 of Benitec Biopharma Limited (File No. 333-209398) filed on February 3, 2016)
10.9†	Form of Option Award Agreement under the Benitec Officers' and Employees' Share Option Plan (incorporated by reference to Exhibit 10.9 to the Registration Statement on Form S-1 of Benitec Biopharma Inc. (File No. 333-246314) filed with the SEC on August 14, 2020)
10.10†	Benitec Biopharma Inc. 2020 Equity and Incentive Compensation Plan (incorporated by reference to Exhibit 10.1 to the Registrant's Form 8-K filed on December 14, 2020)
10.11†	First Amendment to Benitec Biopharma Inc. 2020 Equity and Incentive Compensation Plan, dated as of December 8, 2021 (incorporated by reference to Appendix A to the Registrant's Definitive Proxy Statement on Schedule 14A filed on October 22, 2021)
10.12†	Form of Evidence of Award of Option Right Pursuant to the Benitec Biopharma Inc. 2020 Equity Incentive and Compensation Plan (Executives) (incorporated by reference to Exhibit 10.1 to the Registrant's Current Report on Form8-K filed on December 15, 2020)
10.13†	Form of Evidence of Award of Option Right Pursuant to the Benitec Biopharma Inc. 2020 Equity Incentive and Compensation Plan (Non-Employee Directors) (incorporated by reference to Exhibit 10.2 to the Registrant's Current Report on Form 8-K filed on December 15, 2020)
21.1	List of significant subsidiaries (incorporated by reference to Exhibit 21.1 to the Registrant's Form10-K filed on September 2, 2022)
23.1*	Consent of Baker Tilly US, LLP
23.2**	Consent of Proskauer Rose LLP (included in Exhibit 5.1)
24.1	Power of Attorney (included on signature page to the initial filing of this Registration Statement)
107**	Calculation of Filing Fee Table

- Filed herewith. Previously filed.
- Indicates a management contract or compensatory plan.

# Signatures

Pursuant to the requirements of the Securities Act of 1933, as amended, the Registrant has duly caused this Registration Statement on Form S-1 to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Hayward, State of California, on September 8, 2022.

## BENITEC BIOPHARMA INC.

By: /s/ Dr. Jerel Banks
Dr. Jerel Banks
Chief Executive Officer

Pursuant to the requirements of the Securities Act of 1933, as amended, this Registration Statement on Form S-1 has been signed by the following persons in the capacities and on the dates indicated.

<u>Signature</u>	<u>Title</u>	<u>Date</u>
/s/ Dr. Jerel Banks Dr. Jerel Banks	Chief Executive Officer, Director (principal executive officer)	September 8, 2022
/s/ * Megan Boston	Executive Director, Director (principal accounting and financial officer)	September 8, 2022
/s/ *  J. Kevin Buchi	Director	September 8, 2022
/s/ * Peter Francis	Director	September 8, 2022
/s/ * Edward Smith	Director	September 8, 2022
*By: /s/ Dr. Jerel Banks Dr. Jerel Banks Attorney-in-fact		

# BENITEC BIOPHARMA INC.

# COMPUTERSHARE TRUST COMPANY, N.A., as Warrant Agent

Warrant Agency Agreement

Dated as of , 2022

#### WARRANT AGENCY AGREEMENT

WARRANT AGENCY AGREEMENT, dated as of , 2022 ("Agreement"), between Benitec Biopharma Inc., a corporation organized under the laws of the State of Delaware (the "Company"), and Computershare Trust Company, N.A. (the "Warrant Agent").

#### WITNESSETH

WHEREAS, pursuant to a registered offering by the Company of up to shares of the Company's common stock, par value \$0.0001 per share (the "Common Stock") (or up to pre-funded warrants (the "Pre-Funded Warrants") to purchase shares of Common Stock for any purchaser who, as a result of purchasing securities in this Offering, would, together with its affiliates and other related parties, beneficially own more than 4.99% or 9.99% of our outstanding Common Stock), up to \_\_\_\_ Series 1 warrants (the "Series 1 Warrants") to purchase shares of Common Stock (the "Series 2 Warrants"), collectively, with the Series 1 Warrants, the "Warrants") to purchase shares of Common Stock (the "Series 2 Warrants"), collectively, with the Series 1 Warrants Shares, the "Warrant Shares") at a price of \$ per share and Warrant (or % of the price of each share of common stock sold in the Offering); and

WHEREAS, the Company granted an over-allotment option to purchase up to % of the aggregate number of shares of Common Stock and/or Warrants sold (the "Over-Allotment Option") to the Underwriters; and

WHEREAS, upon the terms and subject to the conditions hereinafter set forth and pursuant to an effective registration statement on FornS-1, as amended (File No. 333-266417) (the "Registration Statement"), and the terms and conditions of the Warrant Certificate, the Company wishes to issue the Warrants in book entry form entitling the respective holders of the Warrants (the "Holders," which term shall include a Holder's transferees, successors and assigns and "Holder" shall include, if the Warrants are held in "street name," a Participant (as defined below) or a designee appointed by such Participant); and

WHEREAS, the shares of Common Stock (or Pre-Funded Warrants) and Warrants to be issued in connection with the Offering shall be issued separately, but will be purchased together in the Offering; and

WHEREAS, the Company wishes the Warrant Agent to act on behalf of the Company, and the Warrant Agent is willing so to act, in connection with the issuance, registration, transfer, exchange, exercise and replacement of the Warrants and, in the Warrant Agent's capacity as the Company's transfer agent, the delivery of the Warrant Shares.

NOW, THEREFORE, in consideration of the premises and the mutual agreements herein set forth, the parties hereby agree as follows:

- Section 1. Certain Definitions. For purposes of this Agreement, all capitalized terms not herein defined shall have the meanings hereby indicated:
  - (a) "Affiliate" has the meaning ascribed to it in Rule 12b-2 under the Securities Exchange Act of 1934, as amended (the 'Exchange Act').
- (b) "Business Day" means any day except any Saturday, any Sunday, any day which is a federal legal holiday in the United States or any day on which the Nasdaq Stock Market is authorized or required by law or other governmental action to close.
- (c) "Close of Business" on any given date means 5:00 p.m., New York City time, on such date; provided, however, that if such date is not a Business Day it means 5:00 p.m., New York City time, on the next succeeding Business Day.

- (d) "Person" means an individual, corporation, association, partnership, limited liability company, joint venture, trust, unincorporated organization, government or political subdivision thereof or governmental agency or other entity.
- (e) "Warrant Certificate" means a certificate in substantially the form attached as Exhibit 1 or Exhibit 2 hereto, as applicable, representing such number of Warrant Shares as is indicated therein, provided that any reference to the delivery of a Warrant Certificate in this Agreement shall include delivery of a Definitive Certificate or a Global Warrant (each as defined below).

All other capitalized terms used but not otherwise defined herein shall have the meaning ascribed to such terms in the Warrant Certificate.

Section 2. <u>Appointment of Warrant Agent</u>. The Company hereby appoints the Warrant Agent to act as agent for the Company in accordance with the express terms and conditions hereof, and the Warrant Agent hereby accepts such appointment.

#### Section 3. Global Warrants.

- (a) The Warrants shall be registered securities and shall be evidenced by a Series 1 global warrant with respect to the Series 1 Warrants (the "Series 1 Global Warrant,") and by a Series 2 global warrant (the "Series 2 Global Warrant," and together with the Series 1 Global Warrant, the "Global Warrant"), in the form of the Warrant Certificates, which shall be deposited with the Warrant Agent and registered in the name of Cede & Co., a nominee of The Depository Trust Company (the "Depositary"), or as otherwise directed by the Depositary. Ownership of beneficial interests in the Warrants shall be shown on, and the transfer of such ownership shall be effected through, records maintained by (i) the Depositary or its nominee for each Global Warrant or (ii) institutions that have accounts with the Depositary (such institution, with respect to a Warrant in its account, a "Participant").
- (b) If the Depositary subsequently ceases to make its book-entry settlement system available for the Warrants, the Company may instruct the Warrant Agent regarding other arrangements for book-entry settlement. In the event that the Warrants are not eligible for, or it is no longer necessary to have the Warrants available in, book-entry form, the Warrant Agent shall provide written instructions to the Depositary to deliver to the Warrant Agent for cancellation each Global Warrant, and the Company shall instruct the Warrant Agent to deliver to each Holder a Warrant Certificate.
- (c) A Holder has the right to elect at any time or from time to time a Warrant Exchange (as defined below) pursuant to a Warrant Certificate Request Notice (as defined below). Upon written notice by a Holder to the Company and the Warrant Agent for the exchange of some or all of such Holder's Global Warrants for a separate certificate in the form attached hereto as Exhibit 1, with respect to a Holder of Series 1 Warrants, or Exhibit 2, with respect to a Holder of Series 2 Warrants, as applicable (such separate certificate, a "Definitive Certificate") evidencing the same number of Warrants, which request shall be in the form attached hereto as Exhibit 3 (a "Warrant Certificate Request Notice") and the date of delivery of such Warrant Certificate Request Notice by the Holder, the "Warrant Certificate Request Notice Date" and the surrender by the Holder to the Warrant Agent of a number of Global Warrants for the same number of the same series of Warrants evidenced by a Warrant Certificate, a "Warrant Exchange"), the Company and the Warrant Agent shall promptly effect the Warrant Exchange and the Warrant Agent shall promptly issue and deliver to the Holder a Definitive Certificate for such number of the same series of Warrants in the name set forth in the Warrant Certificate Request Notice. Such Definitive Certificate shall be dated the original issue date of the Warrants, shall be manually executed by an authorized signatory of the Company, shall be in the form attached hereto as Exhibit 1 or Exhibit 2, as applicable. In connection with a Warrant Exchange, the Company agrees to cause to be delivered the Definitive Certificate to the Holder within ten (10) Business Days of the Warrant Certificate Request Notice pursuant to the delivery instructions in the Warrant Certificate Request Notice ("Warrant Certificate Delivery Date"). If the Company fails for any reason to deliver to the Holder the Definitive Certificate subject to the Warrant Certificate Delivery Date"). The Company fails for any reason to deliver to the

evidenced by such Definitive Certificate (based on the VWAP (as defined in the Warrants) of the Common Stock on the Warrant Certificate Request Notice Date), \$10 per Business Day for each Business Day after such Warrant Certificate Delivery Date until such Definitive Certificate is delivered or, prior to delivery of such Warrant Certificate, the Holder rescinds such Warrant Exchange. In no event will the Warrant Agent be liable for any such liquidated damages. The Company covenants and agrees that, upon the date of delivery of the Warrant Certificate Request Notice, the Holder shall be deemed to be the holder of the Definitive Certificate and, notwithstanding anything to the contrary set forth herein, the Definitive Certificate shall be deemed for all purposes to contain all of the terms and conditions of the Warrants evidenced by such Warrant Certificate and the terms of this Agreement, other than Sections 3(c), 3(d) and 9 herein, shall not apply to the Warrants evidenced by the Definitive Certificate. Notwithstanding anything to the contrary contained in this Agreement, in the event of inconsistency between any provision in this Agreement and any provision in a Definitive Certificate, as it may from time to time be amended, the terms of such Definitive Certificate shall control; provided, that, all rights, duties, obligations and immunities of the Warrant Agent, as they relate to the Company, including any such rights, duties, obligations and immunities contained in Sections 3(c), 3(d) and 9 hereof shall be governed by this Warrant Agreement.

(d) A Holder of a Definitive Certificate (pursuant to a Warrant Exchange or otherwise) has the right to elect at any time or from time to time a Global Warrants Exchange (as defined below) pursuant to a Global Warrants Request Notice (as defined below). Upon written notice by a Holder to the Company for the exchange of some or all of such Holder's Warrants evidenced by a Definitive Certificate for a beneficial interest in Global Warrants held in book-entry form through the Depositary evidencing the same number of Warrants, which request shall be in the form attached hereto as Exhibit 4 (a "Global Warrants Request Notice" and the date of delivery of such Global Warrants Request Notice by the Holder, the "Global Warrants Request Notice" Date" and the surrender upon delivery by the Holder of the Warrants evidenced by Definitive Certificates for the same number of the same series of Warrants evidenced by a beneficial interest in Global Warrants held in book-entry form through the Depositary, a "Global Warrants Exchange"), the Company shall promptly effect the Global Warrants Exchange and shall promptly direct the Warrant Agent in writing to issue and deliver to the Holder Global Warrants for such number of the same series of Warrants in the Global Warrants Request Notice, which beneficial interest in such Global Warrants shall be delivered by the Depositary's Deposit or Withdrawal at Custodian system to the Holder pursuant to the instructions in the Global Warrants Request Notice. In connection with a Global Warrants Exchange, the Company shall direct the Warrant Agent to deliver the beneficial interest in such Global Warrants to the Holder within ten (10) Business Days of the Global Warrants Request Notice pursuant to the delivery instructions in the Global Warrant Request Notice ("Global Warrants Delivery Date"). If the Company fails for any reason to deliver to the Holder Global Warrants subject to the Global Warrants Request Notice by the Global Warrants Delivery Date, the Company shall pay to the Holder, in cash, as liquidated damages and not as a penalty, for each \$1,000 of Warrant Shares evidenced by such Global Warrants (based on the VWAP (as defined in the Warrants) of the Common Stock on the Global Warrants Request Notice Date), \$10 per Business Day (increasing to \$20 per Business Day on the fifth Business Day after such liquidated damages begin to accrue) for each Business Day after such Global Warrants Delivery Date until such Global Warrants are delivered or, prior to delivery of such Global Warrants, the Holder rescinds such Global Warrants Exchange. In no event shall the Warrant Agent be liable for such liquidated damages. The Company covenants and agrees that, upon the date of delivery of the Global Warrants Request Notice, the Holder shall be deemed to be the beneficial holder of such Global Warrants.

Section 4. Form of Warrant Certificates. The Warrant Certificate, together with the form of election to purchase Common Stock (<u>Notice of Exercise</u>") and the form of assignment to be printed on the reverse thereof, shall be in the form of Exhibit 1 or Exhibit 2 hereto, as applicable.

Section 5. Countersignature and Registration. The Global Warrant shall be executed on behalf of the Company by its Chief Executive Officer, Chief Financial Officer or Vice President, by facsimile signature, and have affixed thereto the Company's seal or a facsimile thereof which shall be attested by the Secretary or an Assistant Secretary of the Company, by facsimile signature. The Global Warrant shall be countersigned by the Warrant Agent by facsimile signature or electronic signature and shall not be valid for any purpose unless so countersigned. In case any officer of the Company who shall have signed any of the Global Warrant shall cease to be such officer of the Company before countersignature by the Warrant Agent and issuance and delivery by the Company, such Global Warrant, nevertheless, may be countersigned

by the Warrant Agent, issued and delivered with the same force and effect as though the person who signed such Global Warrant had not ceased to be such officer of the Company; and any Global Warrant may be signed on behalf of the Company by any person who, at the actual date of the execution of such Global Warrant, shall be a proper officer of the Company to sign such Global Warrant, although at the date of the execution of this Warrant Agreement any such person was not such an officer.

The Warrant Agent will keep or cause to be kept, at one of its offices, or at the office of one of its agents, books for registration and transfer of the Global Warrants and the Definitive Warrants issued hereunder. Such books shall show the names and addresses of the respective Holders of the Global Warrant, the number of warrants evidenced on the face of each of such Global Warrant and the date of each of such Global Warrant. The Warrant Agent will create a special account for the issuance of Global Warrants.

Section 6. Transfer, Split Up, Combination and Exchange of Warrant Certificates; Mutilated, Destroyed, Lost or Stolen Warrant Certificates With respect to the Global Warrants, subject to the provisions of the Warrant Certificate and the last sentence of this first paragraph of Section 6 and subject to applicable law, rules or regulations, or any "stop transfer" instructions the Company may give to the Warrant Agent, at any time after the closing date of the Offering, and at or prior to the Close of Business on the Termination Date (as such term is defined in the Warrant Certificate), any Global Warrant or Global Warrants may be transferred, split up, combined or exchanged for another Global Warrant or Global Warrants of the same series of Warrant, entitling the Holder to purchase a like number of shares of Common Stock as the Global Warrant or Global Warrants surrendered then entitled such Holder to purchase. Any Holder desiring to transfer, split up, combine or exchange any Global Warrant shall make such request in writing delivered to the Warrant Agent accompanied by a guaranty of signature by an "eligible guarantor institution" that is a member or participant in the Securities Transfer Agents Medallion Program or other comparable "signature guarantee program", and shall surrender the Global Warrant to be transferred, split up, combined or exchanged at the office of the Warrant Agent designated for such purposes. Any requested transfer of Warrants, whether in book-entry form or certificate form, shall be accompanied by reasonable evidence of authority of the party making such request that may be required by the Warrant Agent. Thereupon the Warrant Agent shall, subject to the last sentence of this first paragraph of Section 6, countersign and deliver to the Person entitled thereto a Global Warrant or Global Warrants, as the case may be, as so requested. The Company may require payment from the Holder of a sum sufficient to cover any tax or governmental charge that may be imposed in connection with any transfer

Upon receipt by the Warrant Agent of evidence reasonably satisfactory to it of the loss, theft, destruction or mutilation of a Warrant Certificate, which evidence shall include an affidavit of loss, or in the case of mutilated certificates, the certificate or portion thereof remaining, and, in case of loss, theft or destruction, of indemnity in form and substance satisfactory to the Warrant Agent and amount (including a surety bond), and satisfaction of any other reasonable requirements established by Section 8-405 of the Uniform Commercial Code as in effect in the State of Delaware, and reimbursement to the Company and the Warrant Agent of all reasonable expenses incidental thereto, and upon surrender to the Warrant Agent and cancellation of the Warrant Certificate if mutilated, the Company will make and deliver a new Warrant Certificate of like tenor to the Warrant Agent for delivery to the Holder in lieu of the Warrant Certificate so lost, stolen, destroyed or mutilated.

The Company shall provide an opinion of counsel as of the date hereof to set up reserve of Warrants. The opinion shall be reasonably acceptable to the Warrant Agent and shall that the Warrants and Warrant shares, as applicable are registered or are not required to be registered under the Securities Act of 1933, as amended; and validly issued, fully paid and non-assessable.

Section 7. Exercise of Warrants; Exercise Price; Termination Date.

- (a) The Series 1 Warrants shall be exercisable commencing on the Initial Exercise Date. The Series 2 Warrants shall be exercisable commencing at the time (i) the Company has obtained the approval of its stockholders to amend its amended and restated certificate of incorporation (the "Certificate of Incorporation") to increase the number of authorized shares of common stock in an amount sufficient to permit the exercise of the Series 2 Warrants, and (ii) the Company will have filed an amendment to the Certificate of Incorporation with the Secretary of State of the State of Delaware reflecting this increase (a "Capital Event"). The Warrants shall cease to be exercisable as of the close of business on the Termination Date (as such term is defined in the Warrant Certificate). Subject to the foregoing and to this Section 7, the Holder of a Warrant may exercise the Warrant in whole or in part pursuant to Section 2 of the Warrant Certificate. Payment of the Exercise Price (unless exercised via a cashless exercise), may be made, at the option of the Holder, by wire transfer or by certified or official bank check in United States dollars, to the Warrant Agent at the office of the Warrant Agent designated for such purposes or to the office of one of its agents as may be designated by the Warrant Agent from time to time. In the case of the Holder of a Global Warrant, the Holder shall deliver the executed Notice of Exercise and the payment of the Exercise Price as described herein. Notwithstanding any other provision in this Agreement, a holder whose interest in a Global Warrant is a beneficial interest in a Global Warrant held in book-entry form through the Depositary (or another established clearing corporation performing similar functions), shall effect exercises by delivering to the Depositary (or such other clearing corporation, as applicable) the appropriate instruction form for exercise, complying with the procedures to effect exercise that are required by the Depositary (or such other clearing corporation, as applicable). The Company acknowledges that the bank accounts maintained by the Warrant Agent in connection with the services provided under this Agreement will be in its name and that the Warrant Agent may receive investment earnings in connection with the investment at Warrant Agent risk and for its benefit of funds held in those accounts from time to time. Neither the Company nor the Holders will receive interest on any deposits or Exercise Price. The Company hereby acknowledges and agrees that, with respect to a holder whose interest in a Global Warrant is a beneficial interest in a Global Warrant held in book-entry form through the Depositary (or another established clearing corporation performing similar functions), upon delivery of irrevocable instructions to such holder's Participant to exercise such warrants, that solely for purposes of Regulation SHO that such holder shall be deemed to have exercised such warrants.
- (b) Upon receipt of a Notice of Exercise for a Cashless Exercise of a series of Warrant that may be exercised on a cashless basis at such time the Company will promptly calculate and transmit to the Warrant Agent in writing the number of Warrant Shares issuable in connection with such Cashless Exercise and deliver a copy of the Notice of Exercise to the Warrant Agent, which shall issue such number of Warrant Shares in connection with such Cashless Exercise. The Warrant Agent shall not have any duty or obligation to investigate, verify or confirm the accuracy the Company's calculation with respect to such Cashless Exercise. In the event of a Cashless Exercise, the Company shall provide the cost basis for shares issued pursuant to a cashless exercise at time the number of Warrant Shares is calculated and delivered to the Warrant Agent.
- (c) Upon exercise of a Warrant Certificate pursuant to the terms of Section 2 of the Warrant Certificate, the Warrant Agent shall cause the Warrant Shares underlying such Warrant Certificate or Global Warrant to be delivered to or upon the order of the Holder of such Warrant Certificate or Global Warrant, registered in such name or names as may be designated by such Holder, no later than the Warrant Share Delivery Date (as such term is defined in the Warrant Certificate). If the Company is then a participant in the DWAC system of the Depositary and either (A) there is an effective registration statement permitting the issuance of the Warrant Shares to or resale of the Warrant Shares by Holder or (B) the Warrant is being exercised via Cashless Exercise, then the certificates for Warrant Shares shall be transmitted by the Warrant Agent to the Holder by crediting the account of the Holder's broker with the Depositary through its DWAC system. For the avoidance of doubt, if the Company becomes obligated to pay any amounts to any Holders pursuant to Section 2(d)(i) or 2(d)(iv) of the Warrant Certificate, such obligation shall be solely that of the Company and not that of the Warrant Agent. Notwithstanding anything else to the contrary in this Agreement, except in the case of a Cashless Exercise, if any Holder fails to duly deliver payment to the Warrant Agent of an amount equal to the aggregate Exercise Price of the Warrant Shares to be purchased upon exercise of such Holder's Warrant as set forth in Section 7(a) hereof by the Warrant Share Delivery Date, the Warrant Agent will not obligated to deliver such Warrant Shares (via DWAC or otherwise) until following receipt of such payment, and the applicable Warrant Share Delivery Date shall be deemed extended by one day for each day (or part thereof) until such payment is delivered to the Warrant Agent.

(d) The Warrant Agent shall deposit all funds received by it in payment of the Exercise Price for all Warrants in the account of the Company maintained with the Warrant Agent for such purpose (or to such other account as directed by the Company in writing).

Section 8. Cancellation and Destruction of Warrant Certificates. All Warrant Certificates surrendered for the purpose of exercise, transfer, split up, combination or exchange shall, if surrendered to the Company or to any of its agents, be delivered to the Warrant Agent for cancellation or in canceled form, or, if surrendered to the Warrant Agent, shall be canceled by it, and no Warrant Certificate shall be issued in lieu thereof except as expressly permitted by any of the provisions of this Agreement. The Company shall deliver to the Warrant Agent for cancellation and retirement, and the Warrant Agent shall so cancel and retire, any other Warrant Certificate purchased or acquired by the Company otherwise than upon the exercise thereof. The Warrant Agent shall deliver all canceled Warrant Certificates to the Company, or shall, at the written request of the Company, destroy such canceled Warrant Certificates, and in such case shall deliver a certificate of destruction thereof to the Company, subject to any applicable law, rule or regulation requiring the Warrant Agent to retain such canceled certificates.

#### Section 9. Certain Representations; Reservation and Availability of Shares of Common Stock or Cash.

- (a) This Agreement has been duly authorized, executed and delivered by the Company and, assuming due authorization, execution and delivery hereof by the Warrant Agent, constitutes a valid and legally binding obligation of the Company enforceable against the Company in accordance with its terms, and the Warrants have been duly authorized, executed and issued by the Company and, assuming due authentication thereof by the Warrant Agent pursuant hereto and payment therefor by the Holders as provided in the Registration Statement, constitute valid and legally binding obligations of the Company enforceable against the Company in accordance with their terms and entitled to the benefits hereof; in each case except as enforceability may be limited by bankruptcy, insolvency, reorganization, moratorium and other similar laws relating to or affecting creditors' rights generally or by general equitable principles (regardless of whether such enforceability is considered in a proceeding in equity or at law).
- (b) As of the date hereof, the authorized capital stock of the Company consists of forty million (40,000,000) shares of common stock, of which approximately shares of Common Stock are issued and outstanding as of June 30, 2022, and shares of Common Stock are reserved for issuance upon exercise of the Warrants. Except as disclosed in the Registration Statement, there are no other outstanding obligations, warrants, options or other rights to subscribe for or purchase from the Company any class of capital stock of the Company.
- (c) The Company covenants and agrees that it will cause to be reserved and kept available out of its authorized and unissued shares of Common Stock or its authorized and issued shares of Common Stock held in its treasury, free from preemptive rights, the number of shares of Common Stock that will be sufficient to permit the exercise in full of all outstanding Warrants (other than with respect to the Series 2 Warrant Shares, only following the Capital Event).
- (d) The Warrant Agent will create a special account for the issuance of Common Stock upon the exercise of Series 1 Warrants in connection with the Offering, and will create a special account for the issuance of Common Stock upon the exercise of Series 2 Warrants following the Capital Event.
- (e) The Company further covenants and agrees that it will pay when due and payable any and all federal and state transfer taxes and charges which may be payable in respect of the original issuance or delivery of the Warrant Certificates or certificates evidencing Common Stock upon exercise of the Warrants. The Company shall not, however, be required to pay any tax or governmental charge which may be payable in respect of any transfer involved in the transfer or delivery of Warrant Certificates or the issuance or delivery of certificates for Common Stock in a name other than that of the Holder of the Warrant Certificate evidencing Warrants surrendered for exercise or to issue or deliver any certificate for shares of Common Stock upon the exercise of any Warrants until any such tax or governmental charge shall have been paid (any such tax or governmental charge being payable by the Holder of such Warrant Certificate at the time of surrender) or until it has been established to the Company's reasonable satisfaction that no such tax or governmental charge is due. The Warrant Agent shall have no duty to deliver such Warrants or Warrant Shares or take any other action requiring the payment of taxes or charges unless and until it is satisfied that all such taxes and charges have been paid.

Section 10. Common Stock Record Date. Each Person in whose name any certificate for shares of Common Stock is issued (or to whose broker's account is credited shares of Common Stock through the DWAC system) upon the exercise of Warrants shall for all purposes be deemed to have become the holder of record for the Common Stock represented thereby on, and such certificate shall be dated, the date on which submission of the Notice of Exercise was made, provided that the Warrant Certificate evidencing such Warrant is duly surrendered (but only if required herein) and payment of the Exercise Price (and any applicable transfer taxes) is received on or prior to the Warrant Share Delivery Date; provided, however, that if the date of submission of the Notice of Exercise is a date upon which the Common Stock transfer books of the Company are closed, such Person shall be deemed to have become the record holder of such shares on, and such certificate shall be dated, the next succeeding day on which the Common Stock transfer books of the Company are open.

Section 11. Adjustment of Exercise Price, Number of Shares of Common Stock or Number of the Company Warrants. The Exercise Price, the number of shares covered by each Warrant and the number of Warrants outstanding are subject to adjustment from time to time as provided in Section 3 of the Warrant Certificate. In the event that at any time, as a result of an adjustment made pursuant to Section 3 of the Warrant Certificate, the Holder of any Warrant thereafter exercised shall become entitled to receive any shares of capital stock of the Company other than shares of Common Stock, thereafter the number of such other shares so receivable upon exercise of any Warrant shall be subject to adjustment from time to time in a manner and on terms as nearly equivalent as practicable to the provisions with respect to the shares contained in Section 3 of the Warrant Certificate and the provisions of Sections 7, 11 and 12 of this Agreement with respect to the shares of Common Stock shall apply on like terms to any such other shares. All Warrants originally issued by the Company subsequent to any adjustment made to the Exercise Price pursuant to the Warrant Certificate shall evidence the right to purchase, at the adjusted Exercise Price, the number of shares of Common Stock purchasable from time to time hereunder upon exercise of the Warrants, all subject to further adjustment as provided herein.

Section 12. Certification of Adjusted Exercise Price or Number of Shares of Common Stock. Whenever the Exercise Price or the number of shares of Common Stock issuable upon the exercise of each Warrant is adjusted as provided in Section 11 or 13, the Company shall (a) promptly prepare a certificate setting forth the Exercise Price of each Warrant as so adjusted, and a brief statement of the facts accounting for such adjustment, (b) promptly file with the Warrant Agent and with each transfer agent for the Common Stock a copy of such certificate and (c) instruct the Warrant Agent to send such brief summary of the facts accounting for such adjustment to each Holder of a Warrant Certificate. The Warrant Agent shall be fully protected in relying on any such certificate and on any adjustment or statement therein contained and shall have no duty or liability with respect to, and shall not be deemed to have knowledge of any such adjustment or any such event unless and until it shall have received such certificate.

#### Section 13. Fractional Shares of Common Stock.

- (a) The Company shall not issue fractions of Warrants or distribute Warrant Certificates which evidence fractional Warrants. Whenever any fractional Warrant would otherwise be required to be issued or distributed, the actual issuance or distribution shall reflect a rounding of such fraction to the nearest whole Warrant (rounded down).
- (b) The Company shall not issue fractions of shares of Common Stock upon exercise of Warrants or distribute stock certificates which evidence fractional shares of Common Stock. Whenever any fraction of a share of Common Stock would otherwise be required to be issued or distributed, the actual issuance or distribution in respect thereof shall be made in accordance with Section 2(d)(v) of the Warrant Certificate.

Section 14. <u>Conditions of the Warrant Agent's Obligations</u>. The Warrant Agent accepts its obligations herein set forth upon the express terms and conditions hereof, including the following to all of which the Company agrees and to all of which the rights hereunder of the Holders from time to time of the Warrant Certificates shall be subject:

- (a) Compensation and Indemnification. The Company agrees promptly to pay the Warrant Agent the compensation set forth in a mutually agreed upon fee schedule executed on or before the date hereof for all services rendered by the Warrant Agent and on demand of the Warrant Agent to reimburse the Warrant Agent for reasonable out-of-pocket expenses (including reasonable counsel fees) and other disbursements incurred in the preparation, delivery, negotiation, amendment, administration and execution of this Agreement and the exercise and performance of its duties hereunder. The Company also agrees to indemnify the Warrant Agent for, and to hold it harmless against, any and all loss, liability, damage, judgment, fine, penalty, claim, demand, settlement, cost or expense (including, without limitation, the reasonable fees and expenses of legal counsel) that may be paid, incurred or suffered by it, or which it may become subject, without gross negligence or bad faith on the part of the Warrant Agent (which gross negligence or bad faith must be determined by a final, non-appealable judgment of a court of competent jurisdiction to have been directly caused by the Warrant Agent), for any action taken, suffered, or omitted to be taken by the Rights Agent in connection with the execution, acceptance, administration, exercise and performance of its duties under this Agreement, including the costs and expenses of defending against any claim of liability arising therefrom, directly or indirectly, or enforcing its rights hereunder. The Warrant Agent shall be under no obligation to institute or defend any action, suit, or legal proceeding in connection herewith or to take any other action likely to involve the Warrant Agent in expense, unless first indemnified to the Warrant Agent's satisfaction. The indemnities provided by this paragraph shall survive the resignation or discharge of the Warrant Agent or the termination of this Agreement. Anything in this Agreement to the contrary notwithstanding, in no event shall the Warrant Agent be liable under or in connection with the Agreement for indirect, special, incidental, punitive or consequential losses or damages of any kind whatsoever, including but not limited to lost profits, whether or not foreseeable, even if the Warrant Agent has been advised of the possibility thereof and regardless of the form of action in which such damages are sought, and the Warrant Agent's aggregate liability to the Company, or any of the Company's representatives or agents, under this Section 14(a) or under any other term or provision of this Agreement, whether in contract, tort, or otherwise, is expressly limited to, and shall not exceed in any circumstances, one (1) year's fees received by the Warrant Agent as fees and charges under this Agreement, but not including reimbursable expenses previously reimbursed to the Warrant Agent by the Company hereunder.
- (b) Agent for the Company. In acting under this Warrant Agreement and in connection with the Warrant Certificates, the Warrant Agent is acting solely as agent of the Company and does not assume any obligations or relationship of agency or trust for or with any of the Holders of Warrant Certificates or beneficial owners of Warrants.
- (c) Counsel. The Warrant Agent may consult with counsel satisfactory to it, which may include counsel for the Company, and the advice or opinion of such counsel shall be full and complete authorization and protection in respect of any action taken, suffered or omitted by it hereunder in the absence of bad faith and in accordance with the advice of such counsel.
- (d) Documents. The Warrant Agent shall be protected and shall incur no liability for or in respect of any action taken or omitted by it in reliance upon any Warrant Certificate, notice, direction, consent, certificate, affidavit, statement or other paper or document reasonably believed by it to be genuine and to have been presented or signed by the proper parties.
- (e) Certain Transactions. The Warrant Agent, and its officers, directors and employees, may become the owner of, or acquire any interest in, Warrants, with the same rights that it or they would have if it were not the Warrant Agent hereunder, and, to the extent permitted by applicable law, it or they may engage or be interested in any financial or other transaction with the Company and may act on, or as depositary, trustee or agent for, any committee or body of Holders of Warrant Securities or other obligations of the Company as freely as if it were not the Warrant Agent hereunder. Nothing in this Warrant Agreement shall be deemed to prevent the Warrant Agent from acting as trustee under any indenture to which the Company is a party.

- (f) No Liability for Interest. Unless otherwise agreed with the Company, the Warrant Agent shall have no liability for interest on any monies at any time received by it pursuant to any of the provisions of this Agreement or of the Warrant Certificates.
- (g) No Liability for Invalidity. The Warrant Agent shall have no liability with respect to any invalidity of this Agreement or the Warrant Certificates (except as to the Warrant Agent's countersignature thereon).
- (h) No Responsibility for Representations. The Warrant Agent shall not be responsible for any of the recitals or representations herein or in the Warrant Certificate (except as to the Warrant Agent's countersignature thereon), all of which are made solely by the Company.
- (i) No Implied Obligations. The Warrant Agent shall be obligated to perform only such duties as are herein and in the Warrant Certificates specifically set forth and no implied duties or obligations shall be read into this Agreement or the Warrant Certificates against the Warrant Agent. The Warrant Agent shall not be under any obligation to take any action hereunder which may tend to involve it in any expense or liability, the payment of which within a reasonable time is not, in its reasonable opinion, assured to it. The Warrant Agent shall not be accountable or under any duty or responsibility for the use by the Company of any of the Warrant Certificates authenticated by the Warrant Agent and delivered by it to the Company pursuant to this Agreement or for the application by the Company of the proceeds of the Warrant Certificate. The Warrant Agent shall have no duty or responsibility in case of any default by the Company in the performance of its covenants or agreements contained herein or in the Warrant Certificates or in the case of the receipt of any written demand from a Holder of a Warrant Certificate with respect to such default, including, without limiting the generality of the foregoing, any duty or responsibility to initiate or attempt to initiate any proceedings at law.

Section 15. Purchase or Consolidation or Change of Name of Warrant Agent. Any entity into which the Warrant Agent or any successor Warrant Agent may be merged or with which it may be consolidated, or any entity resulting from any merger or consolidation to which the Warrant Agent or any successor Warrant Agent shall be party, or any entity succeeding to the corporate trust business of the Warrant Agent or any successor Warrant Agent, shall be the successor to the Warrant Agent under this Agreement without the execution or filing of any paper or any further act on the part of any of the parties hereto, provided that such entity would be eligible for appointment as a successor Warrant Agent under the provisions of Section 17. In case at the time such successor Warrant Agent shall succeed to the agency created by this Agreement any of the Warrant Certificates shall have been countersigned but not delivered, any such successor Warrant Agent may adopt the countersignature of the predecessor Warrant Agent and deliver such Warrant Certificates so countersigned; and in case at that time any of the Warrant Certificates shall not have been countersigned, any successor Warrant Agent may countersign such Warrant Certificates either in the name of the predecessor Warrant Agent or in the name of the successor Warrant Agent; and in all such cases such Warrant Certificates shall have the full force provided in the Warrant Certificates and in this Agreement.

In case at any time the name of the Warrant Agent shall be changed and at such time any of the Warrant Certificates shall have been countersigned but not delivered, the Warrant Agent may adopt the countersignature under its prior name and deliver such Warrant Certificates so countersigned; and in case at that time any of the Warrant Certificates shall not have been countersigned, the Warrant Agent may countersign such Warrant Certificates either in its prior name or in its changed name; and in all such cases such Warrant Certificates shall have the full force provided in the Warrant Certificates and in this Agreement.

Section 16. <u>Duties of Warrant Agent</u>. The Warrant Agent undertakes the duties and obligations imposed by this Agreement upon the following terms and conditions, by all of which the Company, by its acceptance hereof, shall be bound:

- (a) The Warrant Agent may consult with legal counsel (who may be legal counsel for the Company), and the opinion of such counsel shall be full and complete authorization and protection to the Warrant Agent as to any action taken or omitted by it in the absence of bad faith and in accordance with such opinion.
- (b) Whenever in the performance of its duties under this Agreement the Warrant Agent shall deem it necessary or desirable that any fact or matter be proved or established by the Company prior to taking or suffering any action hereunder, such fact or matter (unless other evidence in respect thereof be herein specifically prescribed) may be deemed to be conclusively proved and established by a certificate signed by the Chief Executive Officer, Chief Financial Officer or Vice President of the Company; and such certificate shall be full authentication to the Warrant Agent for any action taken or suffered in the absence of bad faith by it under the provisions of this Agreement in reliance upon such certificate.
- (c) Subject to the limitation set forth in Section 14, the Warrant Agent shall be liable hereunder only for its own gross negligence or willful misconduct (in each case a finally determined by an order of a court of competent jurisdiction).
- (d) The Warrant Agent shall not be liable for or by reason of any of the statements of fact or recitals contained in this Agreement or in the Warrant Certificate (except its countersignature thereof) by the Company or be required to verify the same, but all such statements and recitals are and shall be deemed to have been made by the Company only.
- (e) The Warrant Agent shall not be under any responsibility in respect of the validity of this Agreement or the execution and delivery hereof (except the due execution hereof by the Warrant Agent) or in respect of the validity or execution of any Warrant Certificate (except its countersignature thereof); nor shall it be responsible for any breach by the Company of any covenant or condition contained in this Agreement or in any Warrant Certificate; nor shall it be responsible for the adjustment of the Exercise Price or the making of any change in the number of shares of Common Stock required under the provisions of Section 11 or 13 or responsible for the manner, method or amount of any such change or the ascertaining of the existence of facts that would require any such adjustment or change (except with respect to the exercise of Warrants evidenced by the Warrant Certificates after actual notice of any adjustment of the Exercise Price); nor shall it by any act hereunder be deemed to make any representation or warranty as to the authorization or reservation of any shares of Common Stock to be issued pursuant to this Agreement or any Warrant Certificate or as to whether any shares of Common Stock will, when issued, be duly authorized, validly issued, fully paid and nonassessable.
- (f) Each party hereto agrees that it will perform, execute, acknowledge and deliver or cause to be performed, executed, acknowledged and delivered all such further and other acts, instruments and assurances as may reasonably be required by the other party hereto for the carrying out or performing by any party of the provisions of this Agreement.
- (g) The Warrant Agent is hereby authorized to accept instructions with respect to the performance of its duties hereunder from the Chief Executive Officer, Chief Financial Officer or Vice President of the Company, and to apply to such officers for advice or instructions in connection with its duties, and it shall not be liable and shall be indemnified and held harmless for any action taken or suffered to be taken by it in accordance with instructions of any such officer, provided Warrant Agent carries out such instructions without gross negligence or willful misconduct (in each case, as finally determined by court of competent jurisdiction.
- (h) The Warrant Agent and any shareholder, director, officer or employee of the Warrant Agent may buy, sell or deal in any of the Warrants or other securities of the Company or become pecuniarily interested in any transaction in which the Company may be interested, or contract with or lend money to the Company or otherwise act as fully and freely as though it were not Warrant Agent under this Agreement. Nothing herein shall preclude the Warrant Agent from acting in any other capacity for the Company or for any other legal entity.
- (i) The Warrant Agent may execute and exercise any of the rights or powers hereby vested in it or perform any duty hereunder either itself or by or through its attorney or agents, and the Warrant Agent shall not be answerable or accountable for any act, default, neglect or misconduct of any such attorney or agents or for any loss to the Company resulting from any such act, default, neglect or misconduct absent gross negligence or bad faith in the selection and continued employment thereof (which gross negligence or bad faith must be determined by a final, non-appealable judgment of a court of competent jurisdiction).

Section 17. Change of Warrant Agent. The Warrant Agent may resign and be discharged from its duties under this Agreement upon 30 days' notice in writing sent to the Company and to each transfer agent of the Common Stock, and to the Holders of the Warrant Certificates. The Company may remove the Warrant Agent or any successor Warrant Agent upon 30 days' notice in writing, sent to the Warrant Agent or successor Warrant Agent, as the case may be, and to each transfer agent of the Common Stock, and to the Holders of the Warrant Certificates. If the Warrant Agent shall resign or be removed or shall otherwise become incapable of acting, the Company shall appoint a successor to the Warrant Agent. If the Company shall fail to make such appointment within a period of 30 days after such removal or after it has been notified in writing of such resignation or incapacity by the resigning or incapacitated Warrant Agent or by the Holder of a Warrant Certificate (who shall, with such notice, submit his Warrant Certificate for inspection by the Company), then the Holder of any Warrant Certificate may apply to any court of competent jurisdiction for the appointment of a new Warrant Agent, provided that, for purposes of this Agreement, the Company shall be deemed to be the Warrant Agent until a new warrant agent is appointed. Any successor Warrant Agent, whether appointed by the Company or by such a court, shall be an entity organized and doing business under the laws of the United States or of a state thereof, in good standing, which is authorized under such laws to exercise corporate trust powers and is subject to supervision or examination by federal or state authority and which has at the time of its appointment as Warrant Agent a combined capital and surplus of at least \$50,000,000. After appointment, the successor Warrant Agent shall be vested with the same powers, rights, duties and responsibilities as if it had been originally named as Warrant Agent without further act or deed; but the predecessor Warrant Agent shall deliver and transfer to the successor Warrant Agent any property at the time held by it hereunder, and execute and deliver any further assurance, conveyance, act or deed necessary for the purpose at no additional cost or liability to the predecessor Warrant Agent. Not later than the effective date of any such appointment, the Company shall file notice thereof in writing with the predecessor Warrant Agent and each transfer agent of the Common Stock, and mail a notice thereof in writing to the Holders of the Warrant Certificates. However, failure to give any notice provided for in this Section 17, or any defect therein, shall not affect the legality or validity of the resignation or removal of the Warrant Agent or the appointment of the successor Warrant Agent, as the case may be.

Section 18. <u>Issuance of New Warrant Certificates</u>. Notwithstanding any of the provisions of this Agreement or of the Warrants to the contrary, the Company may, at its option, issue new Warrant Certificates evidencing Warrants in such form as may be approved by its Board of Directors to reflect any adjustment or change in the Exercise Price per share and the number or kind or class of shares of stock or other securities or property purchasable under the several Warrant Certificates made in accordance with the provisions of this Agreement.

Section 19. Notices. Notices or demands authorized by this Agreement to be given or made (i) by the Warrant Agent or by the Holder of any Warrant Certificate to or on the Company, (ii) subject to the provisions of Section 17, by the Company or by the Holder of any Warrant Certificate to or on the Warrant Agent or (iii) by the Company or the Warrant Agent to the Holder of any Warrant Certificate shall be deemed given (a) on the date delivered, if delivered personally, (b) on the first Business Day following the deposit thereof with Federal Express or another recognized overnight courier, (c) on the fourth Business Day following the mailing thereof with postage prepaid, if mailed by registered or certified mail (return receipt requested), and (d) the date of transmission, if such notice or communication is delivered via facsimile or email attachment at or prior to 5:30 p.m. (New York City time) on a Business Day and (e) the next Business Day after the date of transmission, if such notice or communication is delivered via facsimile or email attachment on a day that is not a Business Day or later than 5:30 p.m. (New York City time) on any Business Day, in each case to the parties at the following addresses (or at such other address for a party as shall be specified by like notice):

#### (a) If to the Company, to:

Benitec Biopharma Inc. 3940 Trust Way Hayward, CA 94545 P: +61 (0)3 8692-7222 Attention: Jerel Banks, Chief Executive Officer Megan Boston, Executive Director

#### (b) If to the Warrant Agent, tα

Computershare Trust Company, N.A. 150 Royall Street Canton, MA 02021 Attention: Client Services

For any notice delivered by email to be deemed given or made, such notice must be followed by notice sent by overnight courier service to be delivered on the next business day following such email, unless the recipient of such email has acknowledged via return email receipt of such email.

(c) If to the Holder of any Warrant Certificate to the address of such Holder as shown on the registry books of the Company. Any notice required to be delivered by the Company to the Holder of any Warrant may be given by the Warrant Agent on behalf of the Company. Notwithstanding any other provision of this Agreement, where this Agreement provides for notice of any event to a Holder of any Warrant, such notice shall be sufficiently given if given to the Depositary (or its designee) pursuant to the procedures of the Depositary or its designee.

#### Section 20. Supplements and Amendments.

- (a) The Company and the Warrant Agent may from time to time supplement or amend this Agreement without the approval of any Holders of Global Warrants in order to add to the covenants and agreements of the Company for the benefit of the Holders of the Global Warrants or to surrender any rights or power reserved to or conferred upon the Company in this Agreement, provided that such cure, addition or surrender shall not adversely affect the interests of the Holders of the Global Warrants or Warrant Certificates in any material respect.
- (b) In addition to the foregoing, with the consent of Holders of Warrants entitled, upon exercise thereof, to receive not less than a majority of the shares of Common Stock issuable thereunder, the Company and the Warrant Agent may modify this Agreement for the purpose of adding any provisions to or changing in any manner or eliminating any of the provisions of this Warrant Agreement or modifying in any manner the rights of the Holders of the Global Warrants; provided, however, that no modification of the terms (including but not limited to the adjustments described in Section 11) upon which the Warrants are exercisable or the rights of holders of Warrants to receive liquidated damages or other payments in cash from the Company or reducing the percentage required for consent to modification of this Agreement may be made without the consent of the Holder of each outstanding Warrant Certificate affected thereby; provided further, however, that no amendment hereunder shall affect any terms of any Warrant Certificate issued in a Warrant Exchange. As a condition precedent to the Warrant Agent's execution of any amendment, the Company shall deliver to the Warrant Agent a certificate from a duly authorized officer of the Company that states that the proposed amendment complies with the terms of this Section 20. Notwithstanding anything in this Warrant Agreement to the contrary, the Warrant Agent shall not be required to execute any supplement or amendment to this Warrant Agreement that it has determined would adversely affect its own rights, duties, obligations or immunities under this Warrant Agreement. No amendment to this Agreement shall be effective unless duly executed by the Warrant Agent and the Company.
- Section 21. <u>Successors</u>. All covenants and provisions of this Agreement by or for the benefit of the Company or the Warrant Agent shall bind and inure to the benefit of their respective successors and assigns hereunder.
- Section 22. <u>Benefits of this Agreement</u>. Nothing in this Agreement shall be construed to give any Person other than the Company, the Holders of Warrant Certificates and the Warrant Agent any legal or equitable right, remedy or claim under this Agreement. This Agreement shall be for the sole and exclusive benefit of the Company, the Warrant Agent and the Holders of the Warrant Certificates.

Section 23. Governing Law. This Agreement and each Warrant Certificate and Global Warrant issued hereunder shall be governed by, and construed in accordance with, the laws of the State of New York, without giving effect to the conflicts of law principles thereof.

Section 24. Counterparts. This Agreement may be executed in any number of counterparts and each of such counterparts shall for all purposes be deemed to be an original, and all such counterparts shall together constitute but one and the same instrument.

Section 25. <u>Captions</u>. The captions of the sections of this Agreement have been inserted for convenience only and shall not control or affect the meaning or construction of any of the provisions hereof.

Section 26. <u>Information</u>. The Company agrees to promptly provide to the Holders of the Warrants any information it provides to the holders of the Common Stock, except to the extent any such information is publicly available on the EDGAR system (or any successor thereof) of the Securities and Exchange Commission.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be duly executed as of the day and year first above written.

BENI	TEC BIOPHARMA INC.
By:	
	Name:
	Title:
By:	
	Name:
	Title:
COM	PUTERSHARE TRUST COMPANY, N.A.
By:	
	Name:
	Title:

## Exhibit 1

Form of Series 1 Warrant Certificate

# Exhibit 2

Form of Series 2 Warrant Certificate

# Exhibit 3 Form of Warrant Certificate Request Notice

#### WARRANT CERTIFICATE REQUEST NOTICE

The undersigned Holder of Common Stock Purchase Warrants ("Warrants") in the form of Global Warrants issued by the Company hereby elects to

To: Computershare Trust Company, N.A., as Warrant Agent for Benitec Biopharma Inc. (the "Company")

Date:

receive a Warrant Certificate evidencing the Warrants held by the Holder as specified below: Name of Holder of Warrants in form of Global Warrants: 1. 2. Name of Holder in Warrant Certificate (if different from name of Holder of Warrants in form of Global Warrants): Number of Warrants in name of Holder in form of Global Warrants: 3. Number of Warrants for which Warrant Certificate shall be issued: \_ 4. 5. Number of Warrants in name of Holder in form of Global Warrants after issuance of Warrant Certificate, if any: Warrant Certificate shall be delivered to the following address: 6. The undersigned hereby acknowledges and agrees that, in connection with this Warrant Exchange and the issuance of the Warrant Certificate, the Holder is deemed to have surrendered the number of Warrants in form of Global Warrants in the name of the Holder equal to the number of Warrants evidenced by the Warrant Certificate. [SIGNATURE OF HOLDER] Name of Investing Entity: \_\_\_ Signature of Authorized Signatory of Investing Entity: \_\_\_\_\_ Name of Authorized Signatory: \_\_\_ Title of Authorized Signatory:

# Exhibit 4 Form of Global Warrant Request Notice

#### GLOBAL WARRANT REQUEST NOTICE

The undersigned Holder of Common Stock Purchase Warrants ("Warrants") in the form of Warrants Certificates issued by the Company hereby elects to

To: Computershare Trust Company, N.A., as Warrant Agent for Benitec Biopharma Inc. (the "Company")

Date:

receive a Global Warrant evidencing the Warrants held by the Holder as specified below: Name of Holder of Warrants in form of Warrant Certificates: 1. 2. Name of Holder in Global Warrant (if different from name of Holder of Warrants in form of Warrant Certificates): Number of Warrants in name of Holder in form of Warrant Certificates: 3. Number of Warrants for which Global Warrant shall be issued: 4. 5. Number of Warrants in name of Holder in form of Warrant Certificates after issuance of Global Warrant, if any: Global Warrant shall be delivered to the following address: 6. The undersigned hereby acknowledges and agrees that, in connection with this Global Warrant Exchange and the issuance of the Global Warrant, the Holder is deemed to have surrendered the number of Warrants in form of Warrant Certificates in the name of the Holder equal to the number of Warrants evidenced by the Global Warrant. [SIGNATURE OF HOLDER] Name of Investing Entity: \_\_\_ Signature of Authorized Signatory of Investing Entity: Name of Authorized Signatory: \_\_\_ Title of Authorized Signatory:

# Exhibit 5

Warrant Agent Fee Schedule

#### CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We consent to the incorporation by reference in Amendment No. 3 to the Registration Statement on FormS-1 (No. 333-266417) of Benitec Biopharma Inc. of our report dated September 2, 2022 (which report expresses an unqualified opinion and includes an explanatory paragraph relating to Benitec Biopharma Inc.'s ability to continue as a going concern), relating to the consolidated financial statements of Benitec Biopharma Inc., which appears in the Annual Report on Form 10-K for the year ended June 30, 2022 of Benitec Biopharma Inc.

We also consent to the reference to our firm under the heading "Experts" in such Registration Statement.

/s/ BAKER TILLY US, LLP

Campbell, California

September 8, 2022