Filed pursuant to Rule 424(b)(7)
Registration No. 333-297701

PROSPECTUS SUPPLEMENT
(to Prospectus dated July 24, 2026)

5,000,000 Shares

BridgeBio Pharma, Inc.

Common Stock

The selling stockholder identified in this prospectus supplement is offering 5,000,000 shares of our common stock, par value $0.001 per share (the "common stock"). We are not selling any shares of common stock under this prospectus supplement and will not receive any of the proceeds from the sale of the shares of common stock sold by the selling stockholder.

Our common stock is listed on The Nasdaq Global Select Market under the symbol "BBIO." On August 13, 2026, the last reported sale price of shares of our common stock on The Nasdaq Global Select Market was $81.21 per share.

Investing in our securities involves a high degree of risk. See the section entitled "Risk Factors" beginning on page S-5 of this prospectus supplement and elsewhere in this prospectus supplement and the accompanying base prospectus for a discussion of information that should be considered in connection with an investment in our securities.

	Per Share	Total
Offering Price	$78.000	$390,000,000.00
Underwriting Discount(1)	$ 0.585	$ 2,925,000.00
Proceeds, Before Expenses, to the Selling Stockholder	$77.415	$387,075,000.00

(1) The selling stockholder will pay all brokerage expenses, fees, and discounts, if any, in connection with the sale of the shares of the selling stockholder's common stock. See "Underwriting (Conflicts of Interest)" beginning on page S-15 of this prospectus supplement for additional information.

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

The underwriters expect to deliver the shares to purchasers on or about August 17, 2026.

William Blair **Goldman Sachs & Co. LLC** **KKR**

The date of this prospectus supplement is August 13, 2026.

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Prospectus

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Neither we, the underwriters, nor the selling stockholder have authorized anyone to provide any information or to make any representations other than those contained in this prospectus supplement or the accompanying base prospectus. Neither we, the underwriters, nor the selling stockholder takes any responsibility for, or provides any assurance as to the reliability of, any other information that others may give you. Neither we, the underwriters, nor the selling stockholder are making an offer of these securities in any state or jurisdiction where the offer is not permitted.

You should assume that the information appearing or incorporated by reference in this prospectus supplement, the accompanying prospectus or any free writing prospectus prepared by us is accurate only as of their respective dates or on the date or dates which are specified in such documents, and that any information in documents that we have incorporated by reference is accurate only as of the date of such document incorporated by reference. Our business, financial condition, liquidity, results of operations and prospects may have changed since those dates.

For investors outside of the United States, neither we nor the selling stockholder have done anything that would permit the offering, possession or distribution of this prospectus supplement in any jurisdiction where action for that purpose is required, other than in the United States. You are required to inform yourselves about and to observe any restrictions relating to the offering, possession or the distribution of this prospectus supplement outside of the United States.

ABOUT THIS PROSPECTUS SUPPLEMENT

This prospectus supplement and the accompanying base prospectus are part of a registration statement on Form S-3ASR (Registration No. 333-297701) that we filed with the Securities and Exchange Commission, or the SEC, using an automatic "shelf" registration process. Under this "shelf" registration process, certain selling stockholders may, from time to time, sell any of the securities described in the accompanying base prospectus in one or more offerings with a maximum aggregate offering of up to 24,628,286 shares of common stock. The accompanying base prospectus provides you with a general description of BridgeBio and the securities that may be offered by the selling stockholders. Each time the selling stockholders sell securities under the registration statement through an underwriter, dealer, or agent, a prospectus supplement will be provided that contains specific information about the terms of that offering. A prospectus supplement may also add, update, or change information contained in the accompanying base prospectus.

This prospectus supplement provides specific details regarding this offering of shares of common stock, including the purchase price per share. To the extent there is a conflict between the information contained in this prospectus supplement and the accompanying base prospectus, you should rely on the information in this prospectus supplement. This prospectus supplement, the accompanying base prospectus, and the documents incorporated by reference herein and therein include important information about us and our common stock and other information you should know before investing. You should read both this prospectus supplement and the accompanying base prospectus, together with the additional information described below under the heading "Where You Can Find More Information."

You should not assume that the information appearing in this prospectus supplement or the accompanying base prospectus is accurate as of any date other than the date on the front cover of the respective documents. You should not assume that the information contained in the documents incorporated by reference in this prospectus supplement or the accompanying base prospectus is accurate as of any date other than the respective dates of those documents. Our business, financial condition, results of operations, and prospects may have changed since the date set forth on the respective documents.

Unless otherwise indicated or the context otherwise requires, references in this prospectus to "BridgeBio," the "Company," "we," "us" and "our" refer, collectively, to BridgeBio Pharma, Inc. and its consolidated subsidiaries, unless otherwise specified or the context otherwise requires.

We use various trademarks and trade names in our business, including "BridgeBio" and our corporate logo. All other trademarks or trade names referred to in this prospectus supplement or the accompanying base prospectus are the property of their respective owners. Solely for convenience, the trademarks and trade names in this prospectus supplement or the accompanying base prospectus are referred to without the symbols ® and ™, but such references should not be construed as any indicator that their respective owners will not assert, to the fullest extent under applicable law, their rights thereto. We do not intend our use or display of other companies' trademarks and trade names to imply a relationship with, or endorsement or sponsorship of us by, any other companies.

This prospectus supplement, the accompanying prospectus and the documents incorporated herein by reference include statistical and other industry and market data that we obtained from industry publications and research, surveys and studies conducted by third parties. Industry publications and third-party research, surveys and studies generally indicate that their information has been obtained from sources believed to be reliable, although they do not guarantee the accuracy or completeness of such information. While we believe these industry publications and third-party research, surveys and studies are reliable, you are cautioned not to give undue weight to this information.

PROSPECTUS SUPPLEMENT SUMMARY

The following highlights information about BridgeBio and our business contained elsewhere or incorporated by reference in this prospectus supplement and the accompanying base prospectus. It is not complete and does not contain all of the information that you should consider before investing in any of our securities. You should carefully read this prospectus supplement and the accompanying base prospectus together with the more detailed information incorporated by reference in this prospectus supplement and the accompanying base prospectus. Investors should carefully consider the information set forth under the caption "Risk Factors" appearing elsewhere in this prospectus supplement, including those described in documents incorporated by reference herein. Unless the context otherwise requires, references in this prospectus supplement to "BridgeBio," the "Company," "we," "us," and "our" refer to BridgeBio Pharma, Inc. and its consolidated subsidiaries.

Overview

BridgeBio Pharma, Inc. ("BridgeBio," the "Company," or "we"), is a commercial-stage, multi-product biopharmaceutical company organized around a portfolio operating model to discover, develop, and deliver medicines for patients with genetic diseases. We seek to translate advances in genetic science into therapies for patient populations with significant unmet medical needs.

We currently generate material revenues from one commercial product and have multiple product candidates in late-stage development. Acoramidis received approval from the U.S. Food and Drug Administration ("FDA") in November 2024 as Attruby, and it received approval as Beyonttra from (i) the European Commission on February 10, 2025, (ii) the Japanese Ministry of Health, Labour and Welfare on March 27, 2025 (pricing approval from the National Health Insurance in Japan was subsequently obtained on May 21, 2025), and (iii) the United Kingdom Medicines and Healthcare Products Regulatory Agency in the UK in April 2025. On March 30, 2026, we submitted our New Drug Application ("NDA") to the FDA for oral BBP-418 for the treatment of LGMD2I/R9. On May 27, 2026, the FDA accepted our NDA for filing, granted Priority Review and assigned a Prescription Drug User Fee Act ("PDUFA") target action date of November 27, 2026 for BBP-418. On May 12, 2026, we submitted our NDA to the FDA for encaleret as a potential targeted treatment for ADH1. The FDA accepted our NDA for filing and assigned a PDUFA target action date of May 8, 2027 for encaleret. We submitted our NDA to the FDA for low-dose infigratinib for achondroplasia.

We began operating as BridgeBio LLC in April 2015. BridgeBio Pharma LLC, or the LLC entity, was formed in March 2016. In June 2017, BridgeBio Pharma LLC merged with BridgeBio LLC, with BridgeBio Pharma LLC being the surviving entity. On May 17, 2019, we formed BridgeBio Pharma, Inc., a Delaware corporation, as a stand-alone entity for the purpose of completing our initial public offering. On June 13, 2019, we formed BridgeBio Pharma Merger Sub LLC, or Merger Sub LLC, a Delaware limited liability company. In connection with our initial public offering and related organizational transactions, Merger Sub LLC was merged with and into the LLC entity, with the LLC entity being the surviving entity and our wholly-owned subsidiary. As part of this merger, the unitholders of the LLC entity exchanged their units in the LLC entity for shares of our common stock. On July 1, 2019, we completed our initial public offering of common stock. See "Description of Capital Stock of BridgeBio Pharma, Inc." filed as Exhibit 4.3 to our Annual Report on Form 10-K filed on February 25, 2022 for a description of the terms of our capital stock.

Our principal executive offices are located at 3160 Porter Drive, Suite 250, Palo Alto, CA 94304, and our telephone number is (650) 391-9740. Our corporate website address is https://bridgebio.com. Our website and the information contained on, or that can be accessed through, the website will not be deemed to be incorporated by reference in, and are not considered part of, this prospectus. You should not rely on any such information in making your decision whether to purchase our securities.

Our Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q and Current Reports on Form 8-K and amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended, or the Exchange Act, are available, free of charge, on or through our website as soon as reasonably practicable after such reports and amendments are electronically filed with or furnished to the SEC. The SEC maintains an Internet site that contains reports, proxy and information statements and other information regarding our filings at www.sec.gov.

For additional information about our Company, please refer to other documents we have filed with the SEC and that are incorporated by reference into this prospectus supplement and the accompanying base prospectus, as listed under the heading "Information Incorporated by Reference."

THE OFFERING

The following summary contains basic information about this offering. The summary is not intended to be complete. You should read the full text and more specific details contained elsewhere in this prospectus supplement.

Common stock offered by the selling stockholder	5,000,000 shares
Common stock to be outstanding immediately before and after this offering	195,492,997 shares
Use of Proceeds	The selling stockholder will receive all net proceeds from the sale of our shares of common stock in this offering. We will not receive any proceeds from the common stock sold by the selling stockholder.
Risk Factors	See the section entitled "Risk Factors" beginning on page S-5 for a discussion of factors you should consider carefully before deciding to invest in our common stock.
Nasdaq Global Select Market Symbol	BBIO
Conflicts of Interest	Certain entities affiliated with Kohlberg Kravis Roberts & Co. L.P., or KKR, are selling stockholders in this offering, and will receive 5% or more of the net proceeds of the offering. Because the KKR affiliated stockholders are affiliates of KKR Capital Markets LLC, an underwriter in this offering, KKR Capital Markets LLC is deemed to have a "conflict of interest" under Rule 5121 ("Rule 5121") of the Financial Industry Regulatory Authority, Inc. ("FINRA"). Accordingly, this offering is being made in compliance with the requirements of FINRA Rule 5121. Pursuant to that rule, the appointment of a "qualified independent underwriter" is not required in connection with the offering as a "bona fide public market," as defined in Rule 5121, exists for our common stock. See "Use of Proceeds" and "Underwriting (Conflicts of Interest)."

Unless otherwise indicated, the number of shares of our common stock outstanding before and after this offering excludes, as of June 30, 2026:

- 10,041,746 shares of our common stock issuable upon the exercise of options with a weighted-average price of approximately $25.36 per share;
- 9,476,180 shares of our common stock issuable upon the vesting and settlement of outstanding restricted stock units and restricted stock awards;
- 10,908,310 shares of our common stock reserved for issuance under our Third Amended and Restated 2021 Stock Option and Incentive Plan as well as any future increases in the number of shares of our common stock reserved for issuance under the Third Amended and Restated 2021 Stock Option and Incentive Plan pursuant to evergreen increase provisions;
- 376,868 shares of our common stock reserved for issuance under our Amended and Restated 2019 Inducement Equity Plan; and
- 2,969,167 shares of our common stock reserved for issuance under our 2019 Employee Stock Purchase Plan as well as any future increases in the number of shares of our common stock reserved for issuance under the 2019 Employee Stock Purchase Plan pursuant to evergreen increase provisions;
- 12,878,305 shares of our common stock reserved for issuance upon the conversion of our 2.50% convertible senior notes due 2027 in the aggregate principal amount of $550.0 million issued in March 2020;

- 7,702,988 shares of our common stock reserved for issuance upon the conversion of our 2.25% convertible senior notes due 2029 in the aggregate principal amount of $747.5 million issued in January and February 2021; and
- 11,544,448 shares of our common stock reserved for issuance upon the conversion of our 1.75% convertible senior notes due 2031 in the aggregate principal amount of $575.0 million issued in February 2025; and
- 5,720,014 shares of our common stock reserved for issuance upon the conversion of our 0.75% convertible senior notes due 2033 in the aggregate principal amount of $632.5 million issued in January 2026.

The number of shares of our common stock outstanding before and after this offering also excludes an aggregate of 6,777,704 shares of common stock issuable upon the conversion of 933,900 shares of our Series A Cumulative Convertible Participating Preferred Stock, par value $0.001 per share (the "Preferred Stock"), that were issued on July 1, 2026, at an initial conversion price of $137.79 per share.

RISK FACTORS

Investing in our securities involves a high degree of risk. You should carefully consider the risks and uncertainties described below and in the documents incorporated by reference in this prospectus supplement and the accompanying base prospectus, as well as other information we include or incorporate by reference herein and therein, before making an investment decision. Our business, financial condition and results of operations could be materially adversely affected by the materialization of any of these risks. The trading price of our securities could decline due to the materialization of any of these risks, and you may lose all or part of your investment. This prospectus supplement, the accompanying base prospectus and the documents incorporated herein or therein by reference also contain forward-looking statements that involve risks and uncertainties. Actual results could differ materially from those anticipated in these forward-looking statements as a result of certain factors, including the risks described in the documents incorporated herein by reference, including (i) our Annual Report on Form 10-K for the fiscal year ended December 31, 2025, which is on file with the Securities and Exchange Commission, or the SEC, and is incorporated herein by reference, (ii) our Quarterly Report on Form 10-Q for the quarter ended March 31, 2026, which is on file with the SEC and is incorporated by reference into this prospectus supplement, and (iii) our Quarterly Report on Form 10-Q for the quarter ended June 30, 2026, which is on file with the SEC and is incorporated by reference into this prospectus supplement, as updated by our subsequent annual, quarterly and other reports and documents that are incorporated by reference into this prospectus supplement and the accompanying base prospectus and other documents we file with the SEC that are deemed incorporated by reference into this prospectus supplement and the accompanying base prospectus.

Risks Related to the Offering

Because a majority of the outstanding shares of our common stock are or will be, and the shares of common stock sold in this offering upon issuance will be, freely tradable without restriction or further registration under the Securities Act of 1933, as amended, sales of a substantial number of shares of our common stock in the public market in and following this offering could cause the market price of our common stock to decline.

Sales of a substantial number of shares of our common stock in the public market in and following this offering could cause the market price of our common stock to decline. All of the 5,000,000 shares of common stock to be sold in this offering will be freely tradable without restriction or further registration under the Securities Act of 1933, as amended, or the Securities Act. As a result, the lack of a robust resale market may require a stockholder who desires to sell a large number of shares of common stock to sell the shares in increments over time to mitigate any adverse impact of the sales on the market price of our stock.

You may experience future dilution as a result of future equity offerings.

In order to raise additional capital, we may in the future offer additional shares of our common stock or other securities convertible into or exchangeable for our common stock at prices that may not be the same as the price per share in this offering. We may sell shares or other securities in any other offering at a price per share that is less than the price per share paid by investors in this offering, and investors purchasing shares or other securities in the future could have rights superior to those of existing stockholders. The price per share at which we sell additional shares of our common stock, or securities convertible or exchangeable into common stock, in future transactions may be higher or lower than the price per share paid by investors in this offering. Sales of substantial numbers of such shares in the public market could adversely affect the market price of such shares.

The trading price of our common stock has been, and is likely to continue to be highly volatile and could be subject to wide fluctuations in response to various factors, some of which are beyond our control.

The stock market in general and the market for pharmaceutical and biotechnology companies in particular have experienced extreme volatility that has often been unrelated to the operating performance of particular companies. As a result of this volatility, you may not be able to sell your common stock at or above the offering price and you may lose some or all of your investment.

Our common stock is equity and is subordinate to our existing and future indebtedness.

Our common stock is equity interest in the company and does not constitute indebtedness. As such, claims of holders of common stock will rank junior to all of our indebtedness and other non-equity claims against us and our assets available to satisfy claims against us, including in the event of our liquidation. In addition, common stock will

effectively be subordinated to all existing and future liabilities and obligations of our subsidiaries as our right to participate in any distribution of assets of any of our subsidiaries, including upon the subsidiary's liquidation, will be subject to the prior claims of creditors of that subsidiary, except to the extent that any of our claims as a creditor of such subsidiary may be recognized. Further, common stock places no restrictions on the ability of our subsidiaries to incur additional indebtedness.

Additionally, unlike indebtedness, where principal and interest would customarily be payable on specified due dates, in the case of common stock (i) dividends are payable only if declared by our board of directors or a duly authorized committee of our board and (ii) as a corporation, we are subject to restrictions on payments of dividends and redemption price out of lawfully available funds.

Further, common stock places no restrictions on our business or operations or on our ability to incur indebtedness or engage in any transactions.

CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING STATEMENTS

This prospectus supplement and the accompanying base prospectus, and the documents that we incorporate by reference herein and therein, contains forward-looking statements within the meaning of Section 27A of the Securities Act, and Section 21E of the Exchange Act. Any statements about our expectations, beliefs, plans, objectives, assumptions or future events or performance are not historical facts and may be forward-looking. These statements are often, but are not always, made through the use of words or phrases such as “anticipate,” “believe,” “contemplate,” “continue,” “could,” “estimate,” “expect,” “intend,” “may,” “plan,” “potential,” “predict,” “project,” “seek,” “should,” “target,” “will,” “would,” and similar expressions, or the negative of these terms, or similar expressions. Accordingly, these statements involve estimates, assumptions and uncertainties which could cause actual results to differ materially from those expressed in them. Any forward-looking statements are qualified in their entirety by reference to the factors discussed throughout this prospectus supplement and the accompanying base prospectus, and in particular those factors referenced in the section “Risk Factors.”

This prospectus supplement, including the sections entitled “About this Prospectus Supplement” and “Risk Factors,” contains forward-looking statements that are based on our management’s belief and assumptions and on information currently available to our management. These statements relate to future events or our future financial performance, and involve known and unknown risks, uncertainties and other factors that may cause our actual results, levels of activity, performance or achievements to be materially different from any future results, levels of activity, performance or achievements expressed or implied by these forward-looking statements. Forward-looking statements include, but are not limited to, statements about:

- the continued commercial success of Attruby™ (acoramidis), including our expectations regarding the size and growth potential of the commercial markets for Attruby;
- the success, cost and timing of our clinical development of our late-stage product candidates, including low-dose infigratinib for achondroplasia, encaleret for ADH1, and BBP-418 for limb-girdle muscular dystrophy type 2I/R9, or LGMD2I/R9;
- our ability to continue planned preclinical and clinical development of our respective development programs, and the timing, cost and success of any such continued preclinical and clinical development and planned regulatory submissions;
- the expected timing of our regulatory submissions, and our anticipated interaction with and feedback from the U.S. Food and Drug Administration (the “FDA”) and similar regulatory authorities;
- our plans to implement certain development strategies, including our ability to attract and retain potential collaborators with development, regulatory and commercialization expertise;
- our ability to obtain and maintain regulatory approval of our product candidates in any of the indications for which we are developing or we plan to develop, and any related restrictions, limitations or warnings in the label of any of our product candidates, if approved;
- our ability to successfully commercialize our current product candidates, if approved, and any other product candidates we may identify and pursue, if approved, including our ability to successfully build a specialty sales force and commercial infrastructure to market our current product candidates and any other product candidates we may identify and pursue;
- our ability to compete with companies currently marketing approved treatments or engaged in the development of treatments that may become available for any of the indications that our product candidates are designed to target;
- our reliance on third parties to conduct our clinical trials and to manufacture drug substance and drug product for our commercial product and certain of our product candidates for use in our clinical trials;
- our ability to contract with and the performance of our and our collaborators’ third-party suppliers and manufacturers;
- the pricing and reimbursement of our product candidates, if approved;
- the size and growth potential of the markets for our current product candidates or other product candidates we may identify and pursue, and our ability to serve and gain acceptance by those markets;

- our ability to identify and advance through clinical development any additional product candidates;
- the impacts of public health crises or macroeconomic factors that could impact our business, such as the effects of the ongoing conflicts in the Ukraine or in the Middle East on the global economy; supply chain and inflationary pressures, or significant political, trade or regulatory developments in the jurisdictions in which we may sell our products or conduct our operations;
- our ability to retain and recruit key personnel;
- the success of competing therapies that are or may become available;
- our ability to obtain and maintain adequate intellectual property rights for our product candidates and our ability to operate our business without infringing on the intellectual property rights of others;
- our expectations regarding government and third-party payor coverage and reimbursement;
- our estimates of our expenses, ongoing losses, capital requirements and our use of cash resources, and our needs for or ability to pay for debt interests and obtain additional financing to complete the clinical trials of any of our product candidates;
- the impact of laws and regulations in the United States and foreign countries;
- our financial performance, including our anticipated funding to support the potential launch of three additional medicines globally;
- adverse developments affecting the financial services industry, such as actual events or concerns involving liquidity, defaults, or non-performance by financial institutions or transactional counterparties; and
- developments and projections relating to our competitors or our industry.

These forward-looking statements are neither promises nor guarantees of future performance due to a variety of risks and uncertainties, many of which are beyond our control, which could cause actual results to differ materially from those indicated by these forward-looking statements, including, without limitation, the risks more fully discussed in the "Risk Factors" section in this prospectus supplement and the accompanying base prospectus, and the risk factors and cautionary statements described in other documents that we file from time to time with the SEC, specifically under "Item 1A. Risk Factors" and elsewhere in our most recent Annual Report on Form 10-K for the year ended December 31, 2025 and our Quarterly Reports on Form 10-Q for the quarters ended each of March 31, 2026 and June 30, 2026, as updated by our subsequent annual, quarterly and other reports and documents that are incorporated by reference into this prospectus supplement and the accompanying base prospectus.

Given these uncertainties, readers should not place undue reliance on our forward-looking statements. These forward-looking statements speak only as of the date on which the statements were made and are not guarantees of future performance. Except as may be required by applicable law, we do not undertake to update any forward-looking statements after the date of this prospectus supplement and the accompanying base prospectus or the respective dates of documents incorporated by reference herein or therein that include forward-looking statements.

USE OF PROCEEDS

The selling stockholder will receive all net proceeds from the sale of common stock in this offering. We will not receive any proceeds from the sale of shares by the selling stockholder.

SELLING STOCKHOLDER

The following table sets forth certain information regarding the beneficial ownership of shares of our common stock and the number of shares of our common stock being registered for sale by the selling stockholder named below.

We have determined beneficial ownership in accordance with the rules of the SEC. Except as indicated by the footnotes below, we believe, based on the information furnished to us, that the selling stockholder has sole voting and investment power with respect to all shares of common stock that it beneficially owns. Unless otherwise described below, to our knowledge, the selling stockholder has not held any position or office or had any other material relationship with us or our affiliates during the three years prior to the date of this prospectus supplement. In addition, except as otherwise described below, based on the information provided to us by the selling stockholder, the selling stockholder is not a broker-dealer or an affiliate of a broker-dealer.

Applicable percentage ownership is based on 195,492,997 shares of common stock outstanding as of August 11, 2026.

	Shares Beneficially Owned Before this Offering		Number of Shares Offered	Shares Beneficially Owned After this Offering	
Name of Selling Stockholder	Shares	%		Shares	%
KKR Genetic Disorder L.P. and its affiliates(1)	14,232,739	7.3%	5,000,000	9,232,739	4.7%

(1) Consists of (i) 13,260,971 shares of common stock directly held by KKR Genetic Disorder L.P. and (ii) 971,768 shares of common stock issuable upon conversion of 133,900 shares of the Preferred Stock, based on the initial conversion price of $137.79 per share and without giving effect to any shares issuable in respect of accrued and accumulated dividends shares of common stock, directly held by HCRx Investments HoldCo, L.P. Only shares of common stock directly held by KKR Genetic Disorder L.P. will be sold in this offering.

KKR Genetic Disorder GP LLC, as the general partner of KKR Genetic Disorder L.P., KKR Group Partnership L.P., as the sole member of KKR Genetic Disorder GP LLC, KKR Group Holdings Corp., as the general partner of KKR Group Partnership L.P., KKR Group Co. Inc., as the sole shareholder of KKR Group Holdings Corp., KKR & Co. Inc., as the sole shareholder of KKR Group Co. Inc., KKR Management LLP, as the Series I preferred stockholder of KKR & Co. Inc., and Messrs. Henry R. Kravis and George R. Roberts, as the founding partners of KKR Management LLP, may be deemed to be the beneficial owners having shared voting and investment power with respect to the securities reported herein as being held directly by KKR Genetic Disorder L.P.

HCRx Master GP, LLC, as the general partner of HCRx Investments HoldCo, L.P., Healthcare Royalty Management, LLC as the investment manager of HCRx Investments HoldCo, L.P., KKR Harbor Holdings L.P., as a member of Healthcare Royalty Management, LLC, KKR Harbor Holdings GP LLC, as the general partner of KKR Harbor Holdings L.P., KKR Group Assets Holdings III L.P. as the sole member of KKR Harbor Holdings GP LLC, KKR Group Assets III GP LLC, as the general partner of KKR Group Assets Holdings III L.P., KKR Group Partnership L.P., as the sole member of KKR Group Assets III GP LLC, KKR Group Holdings Corp., as the general partner of KKR Group Partnership L.P., KKR Group Co. Inc., as the sole shareholder of KKR Group Holdings Corp., KKR & Co. Inc., as the sole shareholder of KKR Group Co. Inc., KKR Management LLP, as the Series I preferred stockholder of KKR & Co. Inc., and Messrs. Henry R. Kravis and George R. Roberts, as the founding partners of KKR Management LLP, may be deemed to be the beneficial owners of the securities reported herein as being held directly by HCRx Investments HoldCo, L.P.

The principal business address of each of the entities and persons identified in the paragraphs above, except Mr. Roberts, HCRx Investments HoldCo, L.P., HCRx Master GP, LLC and Healthcare Royalty Management, LLC, is c/o Kohlberg Kravis Roberts & Co. L.P., 30 Hudson Yards, New York, NY 10001. The principal business address for Mr. Roberts is c/o Kohlberg Kravis Roberts & Co. L.P., 2800 Sand Hill Road, Suite 200, Menlo Park, CA 94025. The principal business address of HCRx Investments HoldCo, L.P., HCRx Master GP, LLC and Healthcare Royalty Management, LLC is 300 Atlantic Street, Suite 600, Stamford, CT 06901. Mr. Satvat is a member of our Board of Directors and serves as an executive of Kohlberg Kravis Roberts & Co. L.P. and/or one or more of its affiliates. Each of Messrs. Kravis, Roberts and Satvat and each of the entities and persons described in this footnote as a result of any sole member, general partner, sole shareholder, preferred stockholder or founding partner relationship, as applicable, disclaims beneficial ownership of the shares held by KKR Genetic Disorder L.P. and HCRx Investments HoldCo, L.P. The principal business address of Mr. Satvat is c/o Kohlberg Kravis Roberts & Co. L.P., 2800 Sand Hill Road, Suite 200, Menlo Park, CA 94025.

MATERIAL U.S. FEDERAL INCOME TAX CONSEQUENCES TO NON-U.S. HOLDERS

The following discussion is a summary of the material U.S. federal income tax consequences to Non-U.S. Holders (as defined below) of the purchase, ownership and disposition of our common stock issued pursuant to this offering, but does not purport to be a complete analysis of all potential tax effects. The effects of other U.S. federal tax laws, such as estate and gift tax laws, and any applicable state, local or non-U.S. tax laws are not discussed. This discussion is based on the U.S. Internal Revenue Code of 1986, as amended, or the Code, Treasury Regulations promulgated thereunder, judicial decisions, and published rulings and administrative pronouncements of the U.S. Internal Revenue Service, or the IRS, in each case in effect as of the date hereof. These authorities may change or be subject to differing interpretations. Any such change or differing interpretation may be applied retroactively in a manner that could adversely affect a Non-U.S. Holder of our common stock. We have not sought and will not seek any rulings from the IRS regarding the matters discussed below. There can be no assurance the IRS or a court will not take a contrary position to that discussed below regarding the tax consequences of the purchase, ownership and disposition of our common stock.

This discussion is limited to Non-U.S. Holders that hold our common stock as a "capital asset" 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 Non-U.S. Holder's particular circumstances, including the impact of the Medicare contribution tax on net investment income. In addition, it does not address consequences relevant to Non-U.S. Holders subject to special rules, including, without limitation:

- U.S. expatriates and former citizens or long-term residents of the United States;
- persons subject to the alternative minimum tax;
- persons holding our common stock as part of a hedge, straddle or other risk reduction strategy or as part of a conversion transaction or other integrated investment;
- banks, insurance companies and other financial institutions;
- brokers, dealers or traders in securities;
- "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 (and investors therein);
- tax-exempt organizations or governmental organizations;
- persons deemed to sell our common stock under the constructive sale provisions of the Code;
- persons who hold or receive our common stock pursuant to the exercise of any employee stock option or otherwise as compensation;
- tax-qualified retirement plans; and
- "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.

If an entity treated as a partnership for U.S. federal income tax purposes holds our common stock, 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 and the partners in such partnerships should consult their tax advisors regarding the U.S. federal income tax consequences to them.

THIS DISCUSSION IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT TAX ADVICE. INVESTORS SHOULD CONSULT THEIR 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 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.

Definition of a Non-U.S. Holder

For purposes of this discussion, a "Non-U.S. Holder" is any beneficial owner of our common stock that is neither a "U.S. person" nor an entity treated as a partnership for U.S. federal income tax purposes. A U.S. person is any person that, for U.S. federal income tax purposes, is or is treated as any of the following:

- an individual who is a citizen or resident of the United States;
- a corporation 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 (1) is subject to the primary supervision of a U.S. court and the control of one or more "United States persons" (within the meaning of Section 7701(a)(30) of the Code) or (2) has a valid election in effect to be treated as a United States person for U.S. federal income tax purposes.

Distributions

If we make distributions of cash or property on our common stock, such distributions 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. 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 "—Sale or other taxable disposition."

Subject to the discussion below on effectively connected income, dividends paid to a Non-U.S. Holder of our common stock 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 specified by an applicable income tax treaty, provided the Non-U.S. Holder furnishes a valid IRS Form W-8BEN or W-8BEN-E (or other applicable documentation) certifying qualification for the lower treaty rate). A Non-U.S. Holder that does not timely furnish the required documentation, but that qualifies for a reduced treaty rate, may obtain a refund of any excess amounts withheld by timely filing an appropriate claim for refund with the IRS. Non-U.S. Holders should consult their tax advisors regarding their entitlement to benefits under any applicable income tax treaty.

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 (and, 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), the Non-U.S. Holder will be exempt from the U.S. federal withholding tax described above. To claim the exemption, the Non-U.S. Holder must furnish to the applicable withholding agent a valid IRS Form W-8ECI, certifying that the dividends are effectively connected with the Non-U.S. Holder's conduct of a trade or business within the United States.

Any such effectively connected dividends will be subject to U.S. federal income tax on a net income basis at the regular graduated rates. A Non-U.S. Holder that is a corporation for U.S. federal income tax purposes also may be subject to a branch profits tax at a rate of 30% (or such lower rate specified by an applicable income tax treaty) on such effectively connected dividends, as adjusted for certain items. Non-U.S. Holders should consult their tax advisors regarding any applicable tax treaties that may provide for different rules.

Sale or other taxable disposition

Subject to the discussion below regarding backup withholding and Foreign Account Tax Compliance Act, or FATCA, a Non-U.S. Holder will not be subject to U.S. federal income tax on any gain realized upon the sale or other taxable disposition of our common stock unless:

- the gain is effectively connected with the Non-U.S. Holder's conduct of a trade or business within the United States (and, 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 nonresident 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
- our common stock constitutes a U.S. real property interest, or USRPI, by reason of our status as a U.S. real property holding corporation, or USRPHC, for U.S. federal income tax purposes.

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

Gain 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 specified by an applicable income tax treaty), 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 has timely filed U.S. federal income tax returns with respect to such losses.

With respect to the third bullet point above, we believe we currently are not, and do not anticipate becoming, a USRPHC. Because the determination of whether we are a USRPHC depends, however, on the fair market value of our USRPIs relative to the fair market value of our non-U.S. real property interests and our other business assets, there can be no assurance we currently are not a USRPHC or will not become one in the future. Even if we are or were to become a USRPHC, gain arising from the sale or other taxable disposition by a Non-U.S. Holder of our common stock will not be subject to U.S. federal income tax if our common stock is "regularly traded," as defined by applicable Treasury Regulations, on an established securities market, and such Non-U.S. Holder owned, actually and constructively, 5% or less of our common stock throughout the shorter of the five-year period ending on the date of the sale or other taxable disposition or the Non-U.S. Holder's holding period.

Non-U.S. Holders should consult their tax advisors regarding any applicable tax treaties that may provide for different rules.

Information reporting and backup withholding

Payments of dividends on our common stock will not be subject to backup withholding, provided the applicable withholding agent does not have actual knowledge or reason to know the holder is a United States person and the holder either certifies its non-U.S. status, such as by furnishing a valid IRS Form W-8BEN, W-8BEN-E or W-8ECI, or otherwise establishes an exemption. However, information returns are required to be filed with the IRS in connection with any dividends on our common stock paid to the Non-U.S. Holder, regardless of whether any tax was actually withheld. In addition, proceeds of the sale or other taxable disposition of our common stock within the United States or conducted through certain U.S.-related brokers generally will not be subject to backup withholding or information reporting, if the applicable withholding agent receives the certification described above and does not have actual knowledge or reason to know that such holder is a United States person, or the holder otherwise establishes an exemption. Proceeds of a disposition of our common stock conducted through a non-U.S. office of a non-U.S. broker that does not have certain enumerated relationships with the United States generally will not be subject to backup withholding or information reporting.

Copies of information returns that are filed with the IRS may also be made available under the provisions of an applicable treaty or agreement to the tax authorities of the country in which the Non-U.S. Holder resides or is established.

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, provided the required information is timely furnished to the IRS.

Additional withholding tax on payments made to foreign accounts

Withholding taxes may be imposed under Sections 1471 to 1474 of the Code (such Sections commonly referred to as the 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 on, or (subject to the proposed Treasury Regulations discussed below) gross proceeds from the sale or other disposition of, our common stock paid to a "foreign financial institution" or a "non-financial foreign entity" (each as defined in the Code), unless (1) the foreign financial institution undertakes certain diligence and reporting obligations, (2) the non-financial foreign entity either certifies it does not have any "substantial United States owners" (as defined in the Code) or furnishes identifying information regarding each substantial United States owner, or (3) 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 (1) 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 United States persons" or "United States-owned foreign entities" (each as defined in the Code), annually report certain information about such accounts, and withhold 30% on certain payments to non-compliant foreign financial institutions and certain other account holders. Foreign financial institutions located in jurisdictions that have an intergovernmental agreement with the United States governing FATCA may be subject to different rules.

Under the applicable Treasury Regulations and administrative guidance, withholding under FATCA generally applies to payments of dividends on our common stock. While, beginning on January 1, 2019, withholding under FATCA would have applied also to payments of gross proceeds from the sale or other disposition of our common stock, recently proposed Treasury Regulations eliminate FATCA withholding on payments of gross proceeds entirely. Taxpayers generally may rely on these proposed Treasury Regulations until final Treasury Regulations are issued.

Prospective investors should consult their tax advisors regarding the potential application of withholding under FATCA to their investment in our common stock.

UNDERWRITING (CONFLICTS OF INTEREST)

We, William Blair & Company, L.L.C., Goldman Sachs & Co. LLC and KKR Capital Markets LLC, as representatives of the underwriters named below, and the selling stockholder have entered into an underwriting agreement with respect to the shares of common stock being offered. Subject to certain conditions, each underwriter has severally agreed to purchase the number of shares of common stock from the selling stockholder indicated in the following table:

Underwriters	Number of Shares
William Blair & Company, L.L.C.	1,250,000
Goldman Sachs & Co. LLC	1,250,000
KKR Capital Markets LLC	2,500,000
Total	5,000,000

The underwriters are committed to take and pay for all of the shares being offered, if any are taken.

Paid by the Selling Stockholder

	Per Share	Total
Offering Price	$78.000	$390,000,000.00
Underwriting Discount	$ 0.585	$ 2,925,000.00
Proceeds, Before Expenses, to the Selling Stockholder	$77.415	$387,075,000.00

Shares sold by the underwriters will initially be offered at the offering price set forth on the cover of this prospectus supplement. Any shares sold by the underwriters to securities dealers may be sold at a discount of up to $0.351 per share from the offering price. After the offering of the shares, the representatives may change the offering price and the other selling terms. The offering of the shares by the underwriters is subject to receipt and acceptance and subject to the underwriters' right to reject any order in whole or in part.

The selling stockholder has agreed with the underwriters, subject to certain exceptions, not to dispose of or hedge any of their common stock or securities convertible into or exchangeable for shares of common stock during the period from the date of this prospectus continuing through the date 30 days after the date of this prospectus, except with the prior written consent of the representatives. This agreement does not apply to any existing employee benefit plans. Except for the selling stockholder, no other parties are entering into a lock-up agreement in connection with this offering.

The offering price has been negotiated among the selling stockholder and the representatives. Among the factors to be considered in determining the offering price of the shares, in addition to prevailing market conditions, will be our historical performance, estimates of our business potential and earnings prospects, an assessment of our management, the current market price for our common stock and the consideration of the above factors in relation to market valuation of companies in related businesses.

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

In connection with this offering, the underwriters may purchase and sell shares of common stock in the open market. These transactions may include short sales, stabilizing transactions and purchases to cover positions created by short sales. Short sales involve the sale by the underwriters of a greater number of shares than they are required to purchase in the offering, and a short position represents the amount of such sales that have not been covered by subsequent purchases. A "covered short position" is a short position that is not greater than the amount of additional shares for which the underwriters' option described above may be exercised. The underwriters may cover any covered short position by either exercising their option to purchase additional shares or purchasing shares in the open market. In determining the source of shares to cover the covered short position, the underwriters will consider, among other things, the price of shares available for purchase in the open market as compared to the price at which they may purchase additional shares pursuant to the option described above. "Naked" short sales are any short sales that create a short position greater than the amount of additional shares for which the option described above may be exercised. The underwriters must cover any such naked short position by purchasing shares 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 the common stock in the open market after pricing that could adversely affect investors who

purchase in the offering. Stabilizing transactions consist of various bids for or purchases of common stock made by the underwriters in the open market prior to the completion of the 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 representatives have repurchased shares sold by or for the account of such underwriter in stabilizing or short covering transactions.

Purchases to cover a short position and stabilizing transactions, as well as other purchases by the underwriters for their own accounts, may have the effect of preventing or retarding a decline in the market price of our stock, and together with the imposition of the penalty bid, may stabilize, maintain or otherwise affect the market price of the common stock. As a result, the price of the common stock may be higher than the price that otherwise might exist in the open market. The underwriters are not required to engage in these activities and may end any of these activities at any time. These transactions may be effected on The Nasdaq Global Select Market, in the over-the-counter market or otherwise.

This prospectus contains general information only and does not take account of the investment objectives, financial situation or particular needs of any particular person. It does not contain any securities recommendations or financial product advice. Before making an investment decision, investors need to consider whether the information in this prospectus is appropriate to their needs, objectives and circumstances, and, if necessary, seek expert advice on those matters.

We and the selling stockholder have agreed to indemnify the several underwriters against certain liabilities, including liabilities under the Securities Act.

Conflicts of Interest

Certain entities affiliated with KKR are selling stockholders in this offering, and will receive 5% or more of the net proceeds of the offering. Because the KKR affiliated stockholders are affiliates of KKR Capital Markets LLC, an underwriter in this offering, KKR Capital Markets LLC is deemed to have a "conflict of interest" under FINRA Rule 5121. Accordingly, this offering is being made in compliance with the requirements of FINRA Rule 5121. Pursuant to that rule, the appointment of a "qualified independent underwriter" is not required in connection with this offering as a "bona fide public market," as defined in Rule 5121, exists for our common stock. KKR Capital Markets LLC will not confirm any sales to any account over which it exercises discretionary authority without the specific written approval of the account holder.

European Economic Area

In relation to each Member State of the European Economic Area, each a Relevant State, no shares of common stock have been offered or will be offered pursuant to the offering to the public in that Relevant State prior to the publication of a prospectus in relation to the shares of common stock which has been approved by the competent authority in that Relevant State or, where appropriate, approved in another Relevant State and notified to the competent authority in that Relevant State, all in accordance with the Prospectus Regulation), except that it may make an offer to the public in that Relevant State of any shares of common stock at any time under the following exemptions under the Prospectus Regulation:

(a) to any legal entity which is a qualified investor as defined under the Prospectus Regulation;

(b) to fewer than 150 natural or legal persons (other than qualified investors as defined under the Prospectus Regulation), subject to obtaining the prior consent of the representatives for any such offer; or

(c) in any other circumstances falling within Article 1(4) of the Prospectus Regulation,

provided that no such offer of the shares of common stock shall require the company or any representative to publish a prospectus pursuant to Article 3 of the Prospectus Regulation or supplement a prospectus pursuant to Article 23 of the Prospectus Regulation.

For the purposes of this provision, the expression an "offer to the public" in relation to any shares of common stock in any Relevant State means the communication in any form and by any means of sufficient information on the terms of the offer and any shares of common stock to be offered so as to enable an investor to decide to purchase or subscribe for any shares of common stock, and the expression "Prospectus Regulation" means Regulation (EU) 2017/1129.

United Kingdom

No shares of common stock have been offered or will be offered pursuant to the offering to the public in the United Kingdom prior to the publication of a prospectus in relation to the Shares which has been approved by the Financial Conduct Authority, except that the common stock may be offered to the public in the United Kingdom at any time:

(a) to any legal entity which is a qualified investor as defined under Article 2 of the UK Prospectus Regulation;

(b) to fewer than 150 natural or legal persons (other than qualified investors as defined under Article 2 of the UK Prospectus Regulation), subject to obtaining the prior consent of the representatives for any such offer; or

(c) in any other circumstances falling within Section 86 of the FSMA;

provided that no such offer of the common stock shall require AAG or any Manager to publish a prospectus pursuant to Section 85 of the FSMA or supplement a prospectus pursuant to Article 23 of the UK Prospectus Regulation. For the purposes of this provision, the expression an "offer to the public" in relation to the common stock in the United Kingdom means the communication in any form and by any means of sufficient information on the terms of the offer and any common stock to be offered so as to enable an investor to decide to purchase or subscribe for any shares and the expression "UK Prospectus Regulation" means Regulation (EU) 2017/1129 as it forms part of domestic law by virtue of the European Union (Withdrawal) Act 2018.

Canada

The shares of common stock may be sold in Canada only to purchasers purchasing, or deemed to be purchasing, as principal that are accredited investors, as defined in National Instrument 45-106 Prospectus Exemptions or subsection 73.3(1) of the Securities Act (Ontario), and are permitted clients, as defined in National Instrument 31-103 Registration Requirements, Exemptions, and Ongoing Registrant Obligations. Any resale of the shares of common stock must be made in accordance with an exemption form, 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 of these rights or consult with a legal advisor.

Pursuant to section 3A.3 of National Instrument 33-105 Underwriting Conflicts (NI 33-105), the underwriters are not required to comply with the disclosure requirements of NI 33-105 regarding underwriter conflicts of interest in connection with this offering.

Hong Kong

The shares of common stock may not be offered or sold in Hong Kong by means of any document other than (i) in circumstances which do not constitute an offer to the public within the meaning of the Companies (Winding Up and Miscellaneous Provisions) Ordinance (Cap. 32 of the Laws of Hong Kong) ("Companies (Winding Up and Miscellaneous Provisions) Ordinance") or which do not constitute an invitation to the public within the meaning of the Securities and Futures Ordinance (Cap. 571 of the Laws of Hong Kong), or Securities and Futures Ordinance, or (ii) to "professional investors" as defined in the Securities and Futures Ordinance and any rules made thereunder, or (iii) in other circumstances which do not result in the document being a "prospectus" as defined in the Companies (Winding Up and Miscellaneous Provisions) Ordinance, and no advertisement, invitation or document relating to the shares of common stock may be issued or may be in the possession of any person for the purpose of issue (in each case whether in Hong Kong or elsewhere), which is directed at, or the contents of which are likely to be accessed or read by, the public in Hong Kong (except if permitted to do so under the securities laws of Hong Kong) other than with respect to shares which are or are intended to be disposed of only to persons outside Hong Kong or only to "professional investors" in Hong Kong as defined in the Securities and Futures Ordinance and any rules made thereunder.

Singapore

This prospectus has not been registered as a prospectus with the Monetary Authority of Singapore. Accordingly, this prospectus and any other document or material in connection with the offer or sale, or invitation for subscription or purchase, of the shares of common stock may not be circulated or distributed, nor may the shares of common stock be offered or sold, or be made the subject of an invitation for subscription or purchase, whether directly or indirectly, to persons in Singapore other than (i) to an institutional investor (as defined under Section 4A of the Securities and Futures Act, Chapter 289 of Singapore, or the SFA) under Section 274 of the SFA, (ii) to a relevant person (as defined in Section 275(2) of the SFA) pursuant to Section 275(1) of the SFA, or any person pursuant to Section 275(1A) of the SFA, and in accordance with the conditions specified in Section 275 of the SFA or (iii) otherwise pursuant to, and in accordance with the conditions of, any other applicable provision of the SFA, in each case subject to conditions set forth in the SFA.

Where the shares of common stock are subscribed or purchased under Section 275 of the SFA by a relevant person which is a corporation (which is not an accredited investor (as defined in Section 4A of the SFA)) the sole business of which is to hold investments and the entire share capital of which is owned by one or more individuals, each of whom is an accredited investor, the securities (as defined in Section 239(1) of the SFA) of that corporation shall not be transferable for six months after that corporation has acquired the shares of common stock under Section 275 of the SFA except: (1) to an institutional investor under Section 274 of the SFA or to a relevant person (as defined in Section 275(2) of the SFA), (2) where such transfer arises from an offer in that corporation's securities pursuant to Section 275(1A) of the SFA, (3) where no consideration is or will be given for the transfer, (4) where the transfer is by operation of law, (5) as specified in Section 276(7) of the SFA, or (6) as specified in Regulation 32 of the Securities and Futures (Offers of Investments) (Shares and Debentures) Regulations 2005 of Singapore, or Regulation 32.

Where the shares of common stock are subscribed or purchased under Section 275 of the SFA by a relevant person which is a trust (where the trustee is not an accredited investor (as defined in Section 4A of the SFA)) whose sole purpose is to hold investments and each beneficiary of the trust is an accredited investor, the beneficiaries' rights and interest (howsoever described) in that trust shall not be transferable for six months after that trust has acquired the shares of common stock under Section 275 of the SFA except: (1) to an institutional investor under Section 274 of the SFA or to a relevant person (as defined in Section 275(2) of the SFA), (2) where such transfer arises from an offer that is made on terms that such rights or interest are acquired at a consideration of not less than S$200,000 (or its equivalent in a foreign currency) for each transaction (whether such amount is to be paid for in cash or by exchange of securities or other assets), (3) where no consideration is or will be given for the transfer, (4) where the transfer is by operation of law, (5) as specified in Section 276(7) of the SFA, or (6) as specified in Regulation 32.

Japan

The shares of common stock have not been and will not be registered under the Financial Instruments and Exchange Act of Japan (Act No. 25 of 1948, as amended), or the FIEA. The securities may not be offered or sold, directly or indirectly, in Japan or to or for the benefit of any resident of Japan (including any person resident in Japan or any corporation or other entity organized under the laws of Japan) or to others for reoffering or resale, directly or indirectly, in Japan or to or for the benefit of any resident of Japan, except pursuant to an exemption from the registration requirements of the FIEA and otherwise in compliance with any relevant laws and regulations of Japan.

Australia

No placement document, prospectus, product disclosure statement or other disclosure document has been lodged with the Australian Securities and Investments Commission, or ASIC, in relation to the offering. This prospectus does not constitute a prospectus, product disclosure statement or other disclosure document under the Corporations Act 2001, or the Corporations Act, and does not purport to include the information required for a prospectus, product disclosure statement or other disclosure document under the Corporations Act.

Any offer in Australia of the shares of common stock may only be made to persons, which we refer to as the Exempt Investors, who are "sophisticated investors" (within the meaning of section 708(8) of the Corporations Act), "professional investors" (within the meaning of section 708(11) of the Corporations Act) or otherwise pursuant to one or more exemptions contained in section 708 of the Corporations Act so that it is lawful to offer the shares of common stock without disclosure to investors under Chapter 6D of the Corporations Act.

The shares of common stock applied for by Exempt Investors in Australia must not be offered for sale in Australia in the period of 12 months after the date of allotment under the offering, except in circumstances where disclosure to investors under Chapter 6D of the Corporations Act would not be required pursuant to an exemption under section 708 of the Corporations Act or otherwise or where the offer is pursuant to a disclosure document which complies with Chapter 6D of the Corporations Act. Any person acquiring shares of common stock must observe such Australian on-sale restrictions.

Switzerland

This document is not intended to constitute an offer or solicitation to purchase or invest in the shares of common stock. The shares of common stock may not be publicly offered, directly or indirectly, in Switzerland within the meaning of the Swiss Financial Services Act ("FinSA") and no application has or will be made to admit the shares of common stock to trading on any trading venue (exchange or multilateral trading facility) in Switzerland. Neither this document nor any other offering or marketing material relating to the shares of common stock constitutes a prospectus pursuant to the FinSA, and neither this document nor any other offering or marketing material relating to the shares of common stock may be publicly distributed or otherwise made publicly available in Switzerland.

The underwriters and their respective affiliates are full service financial institutions engaged in various activities, which may include sales and trading, commercial and investment banking, advisory, investment management, investment research, principal investment, hedging, market making, brokerage and other financial and non-financial activities and services. Certain of the underwriters and their respective affiliates have provided, and may in the future provide, a variety of these services to the issuer and to persons and entities with relationships with the issuer, for which they received or will receive customary fees and expenses. In the ordinary course of their various business activities, the underwriters and their respective affiliates, officers, directors and employees may purchase, sell or hold a broad array of investments and actively traded securities, derivatives, loans, commodities, currencies, credit default swaps and other financial instruments for their own account and for the accounts of their customers, and such investment and trading activities may involve or relate to assets, securities and/or instruments of the issuer (directly, as collateral securing other obligations or otherwise) and/or persons and entities with relationships with the issuer. The underwriters and their respective affiliates may also communicate independent investment recommendations, market color or trading ideas and/or publish or express independent research views in respect of such assets, securities or instruments and may at any time hold, or recommend to clients that they should acquire, long and/or short positions in such assets, securities and instruments.

LEGAL MATTERS

The validity of the shares of common stock being offered hereby will be passed upon for us by Goodwin Procter LLP, San Francisco, California. Certain legal matters will be passed upon for the selling stockholder by Kirkland & Ellis LLP, New York, New York, and for the Underwriters by Latham & Watkins LLP.

EXPERTS

The consolidated financial statements incorporated in this prospectus supplement by reference from the Annual Report on Form 10-K for the year ended December 31, 2025 have been audited by Deloitte & Touche LLP, an independent registered public accounting firm, as stated in their report, which is incorporated herein by reference. Such financial statements have been so incorporated in reliance upon the report of such firm given upon their authority as experts in accounting and auditing.

WHERE YOU CAN FIND MORE INFORMATION

This prospectus supplement and the accompanying base prospectus are part of a registration statement that we have filed with the SEC. Certain information in the registration statement has been omitted from this prospectus supplement and the accompanying base prospectus in accordance with the rules of the SEC. We are subject to the information requirements of the Exchange Act and, in accordance therewith, file annual, quarterly and special reports, proxy statements and other information with the SEC. These documents may be accessed without charge through the SEC's electronic data gathering, analysis and retrieval system, or EDGAR, via electronic means, including the SEC's home page on the Internet (*www.sec.gov*). You may also inspect the registration statement, this prospectus supplement and the accompanying base prospectus on this website.

Those filings are also available to the public on, or accessible through, our website at *https://bridgebio.com*. Information contained on our website is not incorporated by reference into this prospectus supplement or the accompanying base prospectus, and, except for the documents incorporated by reference as noted below, you should not consider any information on, or that can be accessed from, our website as part of this prospectus supplement or the registration statement of which this prospectus supplement and the accompanying base prospectus are a part.

INCORPORATION OF CERTAIN INFORMATION BY REFERENCE

The SEC allows us to incorporate by reference the information and reports we file with it, which means that we can disclose important information to you by referring you to these documents. The information incorporated by reference is an important part of this prospectus supplement, and information that we file after the date hereof with the SEC will automatically update and supersede the information already incorporated by reference. We are incorporating by reference the documents listed below, which we have already filed with the SEC, and any future filings we make with the SEC under Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act, except as to any portion of any future report or document that is not deemed filed under such provisions, after the date of this prospectus supplement and prior to the termination of this offering:

- our Annual Report on Form 10-K for the year ended December 31, 2025, filed with the SEC on February 24, 2026;
- our Quarterly Report on Form 10-Q for the quarter ended March 31, 2026, filed with the SEC on May 7, 2026;
- our Quarterly Report on Form 10-Q for the quarter ended June 30, 2026 filed with the SEC on August 10, 2026;
- our Definitive Proxy Statement on Schedule 14A (other than information furnished rather than filed), filed with the SEC on April 24, 2026;
- our Current Reports on Form 8-K filed with the SEC on January 12, 2026 (with respect to Item 8.01 only), January 21, 2026, February 12, 2026, March 30, 2026, May 7, 2026 (with respect to Item 8.01 only), May 8, 2026, May 13, 2026, May 27, 2026, June 26, 2026, July 2, 2026 (with respect to Items 1.01, 3.02, 3.03, and 5.03 only), and July 22, 2026 (in each case, other than information furnished rather than filed); and
- the description of our common stock contained in Exhibit 4.3 to our Annual Report on Form 10-K for the fiscal year ended December 31, 2021, filed with the SEC on February 25, 2022, including any amendments or reports filed for the purpose of updating such description.

Pursuant to Rule 412 under the Securities Act, any statement contained in a document incorporated or deemed to be incorporated by reference into this prospectus supplement will be deemed to be modified or superseded for purposes of this prospectus supplement to the extent that a statement contained in this prospectus supplement or any other subsequently filed document that is deemed to be incorporated by reference into this prospectus supplement or the accompanying base prospectus modifies or supersedes the statement. Any statement so modified or superseded will not be deemed, except as so modified or superseded, to constitute a part of this prospectus supplement.

Upon request, we will provide, without charge, to each person, including any beneficial owner, to whom a copy of this prospectus supplement is delivered, a copy of the documents incorporated by reference into this prospectus supplement but not delivered with the prospectus supplement. You may request a copy of these filings, and any exhibits we have specifically incorporated by reference as an exhibit in this prospectus supplement, at no cost by writing us at the following address: BridgeBio Pharma, Inc., 3160 Porter Drive, Suite 250, Palo Alto, CA 94304. Our website is located at *https://bridgebio.com*. The reference to our website is intended to be an inactive textual reference and, except for the documents incorporated by reference as noted above, the information on, or accessible through, our website is not intended to be part of this prospectus supplement.

You should rely only on the information incorporated by reference or provided in this prospectus supplement. We have not authorized anyone else to provide you with different information. You should not assume that the information in this prospectus supplement or in the documents incorporated by reference is accurate as of any date other than the date on the front of this prospectus supplement or those documents.

This prospectus is part of a registration statement we filed with the SEC. We have incorporated exhibits into such registration statement. You should read the exhibits carefully for provisions that may be important to you.

PROSPECTUS

24,628,286 Shares



BridgeBio Pharma, Inc.

Common Stock

This prospectus relates to the offer and resale from time to time by KKR Genetic Disorder L.P., Aisling Capital IV LP, Chinotto Investments, LLC and HCRx Investments HoldCo, L.P., and certain of their respective affiliates, as applicable, or collectively, the Selling Stockholders, of up to an aggregate of 24,628,286 shares of our common stock. The shares of the common stock offered by the Selling Stockholders include outstanding shares of common stock held by certain Selling Stockholders and shares of common stock issuable upon conversion of shares of Preferred Stock (as defined below) held by certain Selling Stockholders. We will not sell any shares of common stock under this prospectus and will not receive any of the proceeds from the sale or other disposition of common stock by the Selling Stockholders.

The Selling Stockholders identified in this prospectus or their pledgees, assignees or successors-in-interest may offer and sell or otherwise dispose of the shares of our common stock from time to time through public or private transactions. The shares of our common stock offered by the Selling Stockholders may be sold at market prices prevailing at the time of sale, at prices related to such market prices, at a fixed price or prices subject to change, or at negotiated prices. The Selling Stockholders will bear all commissions and discounts, if any, attributable to the sales of shares. See the section titled "Plan of Distribution" for more information about how the Selling Stockholders may sell or dispose of their shares of common stock.

Our common stock is listed on The Nasdaq Global Select Market under the symbol "BBIO." On July 23, 2026, the last reported sale price of shares of our common stock on The Nasdaq Global Select Market was $82.93 per share.

Investing in our common stock involves a high degree of risk. Before making an investment decision, please read the information under the heading "Risk Factors" beginning on page 3 of this prospectus and in the documents incorporated by reference into this prospectus.

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

The date of this prospectus is July 24, 2026.

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ABOUT THIS PROSPECTUS

This prospectus is part of a registration statement that we filed with the Securities and Exchange Commission, or SEC, utilizing a shelf registration process relating to the securities described in this prospectus, which registration statement became automatically effective upon filing.

This prospectus relates to the resale of shares of our common stock held by the Selling Stockholders identified under the section titled "Selling Stockholders." The shares of our common stock that may be offered by the Selling Stockholders using this prospectus represent shares of our common stock held by the Selling Stockholders. This prospectus provides you with a general description of the securities the Selling Stockholders may offer. When the Selling Stockholders sell shares of our common stock using this prospectus, we or such Selling Stockholders may, if required, provide a prospectus supplement that will contain specific information about the offering and the securities offered, and may also add, update or change information contained in this prospectus. If there is any inconsistency between information in this prospectus and any accompanying prospectus supplement, you should rely on the information in the most recent applicable prospectus supplement and documents incorporated by reference herein and therein.

You should rely only on the information contained or incorporated by reference in this prospectus or a prospectus supplement. Neither we nor the Selling Stockholders have authorized anyone else to provide you with information that is in addition to or different from that contained or incorporated by reference in this prospectus or a prospectus supplement.

Neither we nor the Selling Stockholders are offering to sell these securities in any jurisdiction where such offer and sale is not permitted. The distribution of this prospectus and the offering of the common stock in certain jurisdictions may be restricted by law. 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 common stock and the distribution of this prospectus outside the United States. Neither this prospectus nor any accompanying prospectus supplement constitutes, and may not be used in connection with, an offer to sell, or a solicitation of an offer to buy, any securities offered by this prospectus or such accompanying prospectus supplement by any person in any jurisdiction in which it is unlawful for such person to make such an offer or solicitation.

The information contained in this prospectus or in an applicable prospectus supplement is accurate only as of their respective dates, and the information in the documents incorporated by reference in this prospectus or any applicable prospectus supplement is accurate only as of the date of those documents, regardless of the time of delivery of this prospectus or of any sale of our common stock. Our business, financial condition, results of operations and prospects may have changed since that date. It is important for you to read and consider all information contained or incorporated by reference in this prospectus or any applicable prospectus supplement in making your investment decision. You should read both this prospectus and any applicable prospectus supplement, as well as the documents incorporated by reference into this prospectus and the additional information described under "Where You Can Find More Information" in this prospectus, before investing in our common stock.

Unless otherwise indicated or the context otherwise requires, references in this prospectus to "BridgeBio," the "Company," "we," "us" and "our" refer, collectively, to BridgeBio Pharma, Inc., a Delaware corporation, and its consolidated subsidiaries, unless otherwise specified or the context otherwise requires.

We use various trademarks and tradenames in our business, including "BridgeBio" and our corporate logo. All other trademarks or trade names referred to in this prospectus are the property of their respective owners. Solely for convenience, the trademarks and trade names in this prospectus are referred to without the symbols ® and ™, but such references should not be construed as any indicator that their respective owners will not assert, to the fullest extent under applicable law, their rights thereto. We do not intend our use or display of other companies' trademarks and trade names to imply a relationship with, or endorsement or sponsorship of us by, any other companies.

ABOUT THE COMPANY

The following highlights information about the Registrant and our business contained elsewhere or incorporated by reference in this prospectus. It is not complete and does not contain all of the information that you should consider before investing in any of our securities. You should carefully read this prospectus together with the more detailed information incorporated by reference in this prospectus. Unless the context otherwise requires, references in this prospectus to "BridgeBio," the "Company," "we," "us," and "our" refer to BridgeBio Pharma, Inc. and its consolidated subsidiaries.

Overview

BridgeBio Pharma, Inc. ("BridgeBio," the "Company," or "we"), is a commercial-stage, multi-product biopharmaceutical company organized around a portfolio operating model to discover, develop, and deliver medicines for patients with genetic diseases. We seek to translate advances in genetic science into therapies for patient populations with significant unmet medical needs.

We currently generate material revenues from one commercial product and have multiple product candidates in late-stage development. Acoramidis received approval from the U.S. Food and Drug Administration ("FDA") in November 2024 as Attruby, and it received approval as Beyonttra from (i) the European Commission on February 10, 2025, (ii) the Japanese Ministry of Health, Labour and Welfare on March 27, 2025 (pricing approval from the National Health Insurance in Japan was subsequently obtained on May 21, 2025), and (iii) the United Kingdom Medicines and Healthcare Products Regulatory Agency in the UK in April 2025. On March 30, 2026, we submitted our New Drug Application ("NDA") to the FDA for oral BBP-418 for the treatment of LGMD2I/R9. On May 27, 2026, the FDA accepted our NDA for filing, granted Priority Review and assigned a Prescription Drug User Fee Act ("PDUFA") target action date of November 27, 2026 for BBP-418. On May 12, 2026, we submitted our NDA to the FDA for encaleret as a potential targeted treatment for ADH1. The FDA accepted our NDA for filing and assigned a PDUFA target action date of May 8, 2027 for encaleret.

We began operating as BridgeBio LLC in April 2015. BridgeBio Pharma LLC, or the LLC entity, was formed in March 2016. In June 2017, BridgeBio Pharma LLC merged with BridgeBio LLC, with BridgeBio Pharma LLC being the surviving entity. On May 17, 2019, we formed BridgeBio Pharma, Inc., a Delaware corporation, as a stand-alone entity for the purpose of completing our initial public offering. On June 13, 2019, we formed BridgeBio Pharma Merger Sub LLC, or Merger Sub LLC, a Delaware limited liability company. In connection with our initial public offering and related organizational transactions, Merger Sub LLC was merged with and into the LLC entity, with the LLC entity being the surviving entity and our wholly-owned subsidiary. As part of this merger, the unitholders of the LLC entity exchanged their units in the LLC entity for shares of our common stock. On July 1, 2019, we completed our initial public offering of common stock. See "Description of Capital Stock of BridgeBio Pharma, Inc." filed as Exhibit 4.3 to our Annual Report on Form 10-K filed on February 25, 2022 for a description of the terms of our capital stock.

Our principal executive offices are located at 3160 Porter Drive, Suite 250, Palo Alto, CA 94304, and our telephone number is (650) 391-9740. Our corporate website address is https://bridgebio.com. Our website and the information contained on, or that can be accessed through, the website will not be deemed to be incorporated by reference in, and are not considered part of, this prospectus. You should not rely on any such information in making your decision whether to purchase our securities.

Our Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q and 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 are available, free of charge, on or through our website as soon as reasonably practicable after such reports and amendments are electronically filed with or furnished to the SEC. The SEC maintains an Internet site that contains reports, proxy and information statements and other information regarding our filings at www.sec.gov.

For additional information about our Company, please refer to other documents we have filed with the SEC and that are incorporated by reference into this prospectus, as listed under the heading "Incorporation of Certain Information by Reference."

RISK FACTORS

Investing in our common stock involves a high degree of risk. Before making a decision to invest in our common stock, in addition to the other information contained in this prospectus, in any accompanying prospectus supplement or incorporated by reference herein or therein, you should carefully consider the risks set forth below and the risks described under "Risk Factors" contained in our Annual Report on Form 10-K for the year ended December 31, 2025, and our Quarterly Report on Form 10-Q for the quarter ended March 31, 2026, as well as any amendments thereto, which are incorporated by reference into this prospectus in their entirety, together with other information in this prospectus and any applicable prospectus supplement, the documents incorporated by reference, and any free writing prospectus that we may authorize for use in connection with a specific offering. See the section titled "Where You Can Find Additional Information."

Future sales of our common stock by the Selling Stockholders could cause our stock price to decline.

Sales of a substantial number of shares of our common stock by the Selling Stockholders in the public market or the perception that these sales might occur, could depress the market price of our common stock and could impair our ability to raise capital through the sale of additional equity securities or other securities convertible into or exchangeable for equity securities, regardless of whether there is any relationship between such sales and the performance of our business.

CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING STATEMENTS

This prospectus, together with any accompanying prospectus supplement, includes and incorporates by reference "forward-looking statements" within the meaning of the U.S. Private Securities Litigation Reform Act of 1995 and releases issued by the SEC and within the meaning of Section 27A of the Securities Act, and Section 21E of the Exchange Act. All statements other than statements of historical facts contained in this prospectus, including statements regarding our strategy, future operations, future financial position, future revenue, projected costs, prospects, plan, objectives of management and expected market growth, are forward-looking statements. You can identify these forward-looking statements by the use of words such as "outlook," "believes," "expects," "potential," "continues," "may," "will," "should," "seeks," "approximately," "predicts," "intends," "plans," "estimates," "anticipates" or the negative version of these words or other comparable words. Such forward-looking statements are subject to various risks and uncertainties. Accordingly, there are or will be important factors that could cause actual outcomes or results to differ materially from those indicated in these statements. We believe these factors include, but are not limited to, those described under "Risk Factors" and include, among other things:

- the continued commercial success of Attruby™ (acoramidis), including our expectations regarding the size and growth potential of the commercial markets for Attruby;
- the success, cost and timing of our clinical development of our late-stage product candidates, including low-dose infigratinib for achondroplasia, encaleret for ADH1, and BBP-418 for limb-girdle muscular dystrophy type 2I/R9, or LGMD2I/R9;
- our ability to continue planned preclinical and clinical development of our respective development programs, and the timing, cost and success of any such continued preclinical and clinical development and planned regulatory submissions;
- our ability to initiate, recruit and enroll patients in and conduct our clinical trials at the pace that we project;
- the expected timing of our regulatory submissions, and our anticipated interaction with and feedback from the U.S. Food and Drug Administration (the "FDA") and similar regulatory authorities;
- our plans to implement certain development strategies, including our ability to attract and retain potential collaborators with development, regulatory and commercialization expertise;
- our ability to obtain and maintain regulatory approval of our product candidates in any of the indications for which we are developing or we plan to develop, and any related restrictions, limitations or warnings in the label of any of our product candidates, if approved;
- our ability to successfully commercialize our current product candidates, if approved, and any other product candidates we may identify and pursue, if approved, including our ability to successfully build a specialty sales force and commercial infrastructure to market our current product candidates and any other product candidates we may identify and pursue;
- our ability to compete with companies currently marketing approved treatments or engaged in the development of treatments that may become available for any of the indications that our product candidates are designed to target;
- our reliance on third parties to conduct our clinical trials and to manufacture drug substance and drug product for our commercial product and certain of our product candidates for use in our clinical trials;
- our ability to contract with and the performance of our and our collaborators' third-party suppliers and manufacturers;
- the pricing and reimbursement of our product candidates, if approved;
- the size and growth potential of the markets for our current product candidates or other product candidates we may identify and pursue, and our ability to serve and gain acceptance by those markets;
- our ability to identify and advance through clinical development any additional product candidates;

- the impacts of public health crises or macroeconomic factors that could impact our business, such as the effects of the ongoing conflicts in the Ukraine or in the Middle East on the global economy; supply chain and inflationary pressures, or significant political, trade or regulatory developments in the jurisdictions in which we may sell our products or conduct our operations;
- our ability to retain and recruit key personnel;
- the success of competing therapies that are or may become available;
- our ability to obtain and maintain adequate intellectual property rights for our product candidates and our ability to operate our business without infringing on the intellectual property rights of others;
- our expectations regarding government and third-party payor coverage and reimbursement;
- our estimates of our expenses, ongoing losses, capital requirements and our use of cash resources, and our needs for or ability to pay for debt interests and obtain additional financing to complete the clinical trials of any of our product candidates;
- the impact of laws and regulations in the United States and foreign countries;
- our financial performance, including our anticipated funding to support the potential launch of three additional medicines globally;
- adverse developments affecting the financial services industry, such as actual events or concerns involving liquidity, defaults, or non-performance by financial institutions or transactional counterparties; and
- developments and projections relating to our competitors or our industry.

These forward-looking statements are neither promises nor guarantees of future performance due to a variety of risks and uncertainties, many of which are beyond our control, which could cause actual results to differ materially from those indicated by these forward-looking statements, including, without limitation, the risks more fully discussed in the “Risk Factors” section in this prospectus, and the risk factors and cautionary statements described in other documents that we file from time to time with the SEC, specifically under “Item 1A. Risk Factors” and elsewhere in our most recent Annual Report on Form 10-K for the period ended December 31, 2025 and our Quarterly Report on Form 10-Q for the quarter ended March 31, 2026, as updated by our subsequent annual, quarterly and other reports and documents that are incorporated by reference into this prospectus.

Given these uncertainties, readers should not place undue reliance on our forward-looking statements. These forward-looking statements speak only as of the date on which the statements were made and are not guarantees of future performance. Except as may be required by applicable law, we do not undertake to update any forward-looking statements after the date of this prospectus or the respective dates of documents incorporated by reference herein or therein that include forward-looking statements.

USE OF PROCEEDS

All of the shares of common stock being offered hereby are being sold by the Selling Stockholders identified in this prospectus. We will not receive any proceeds from the sale of shares of common stock by the Selling Stockholders.

The Selling Stockholders will pay any underwriting discounts and commissions and expenses incurred by the Selling Stockholders for brokerage, accounting, tax or legal services or any other expenses incurred by the Selling Stockholders in disposing of the shares.

SELLING STOCKHOLDERS

On June 26, 2019, we entered into a Registration Rights Agreement (the "2019 RRA") with KKR Genetic Disorder L.P. and Aisling Capital IV LP, and certain of their respective affiliates, as applicable, (collectively, the "2019 Selling Stockholders"), and on July 1, 2026, we entered into a Registration Rights Agreement (the "2026 RRA," and together with the 2019 RRA, the "RRAs") with Chinotto Investments, LLC and HCRx Investments HoldCo, L.P. (collectively, the "2026 Selling Stockholders," and together with the 2019 Selling Stockholders, the "Selling Stockholders"), pursuant to which the Selling Stockholders have certain rights to include for registration shares of our common stock held by them. This prospectus covers the sale or other disposition by the Selling Stockholders of up to the total number of shares of common stock held by the 2019 Selling Stockholders that are subject to the 2019 RRA and shares of common stock issuable upon conversion of preferred stock held by the 2026 Selling Stockholders that are subject to the 2026 RRA. The 2019 Selling Stockholders acquired such shares of common stock pursuant to a series of transactions effected on July 1, 2019 in connection with the completion of our initial public offering, in which the 2019 Selling Stockholders were issued shares of our common stock in exchange for outstanding units in BridgeBio Pharma LLC ("BBP LLC") upon the merger of BridgeBio Pharma Merger Sub LLC, our former wholly-owned subsidiary, with and into BBP LLC. In addition, the 2019 Selling Stockholders purchased shares of our common stock in connection with our initial public offering. The 2026 Selling Stockholders acquired such shares of Series A Cumulative Convertible Participating Preferred Stock, par value $0.001 per share (the "Preferred Stock"), which are convertible into shares of common stock, pursuant to an investment agreement entered into on July 1, 2026. Throughout this prospectus, when we refer to the shares of our common stock being registered on behalf of the Selling Stockholders, we are referring to the shares held by the Selling Stockholders that are subject to their respective RRAs, including the shares of common stock issuable upon conversion of preferred stock held by certain of the Selling Stockholders.

We are registering the above-referenced shares to permit each of the Selling Stockholders to resell or otherwise dispose of the shares listed in the table below in the manner contemplated under "Plan of Distribution" below.

The table below sets forth certain information known to us, based upon written representations from the Selling Stockholders, with respect to the beneficial ownership of our shares of common stock held by the Selling Stockholders as of July 21, 2026. Because the Selling Stockholders may sell, transfer or otherwise dispose of all, some or none of the shares of our common stock covered by this prospectus, we cannot determine the number of such shares that will be sold, transferred or otherwise disposed of by the Selling Stockholders, or the amount or percentage of shares of our common stock that will be held by the Selling Stockholders upon termination of any particular offering. See the section titled "Plan of Distribution." For purposes of the table below, we assume that the Selling Stockholders will sell all their shares of common stock covered by this prospectus.

We have determined beneficial ownership in accordance with the rules of the SEC. Except as indicated by the footnotes below, we believe, based on the information furnished to us, that each of the Selling Stockholders has sole voting and investment power with respect to all shares of common stock that it beneficially owns. Unless otherwise described below, to our knowledge, the Selling Stockholders have not held any position or office or had any other material relationship with us or our affiliates during the three years prior to the date of this prospectus. In addition, except as otherwise described below, based on the information provided to us by the Selling Stockholders, the Selling Stockholders are not broker-dealers or affiliates of a broker-dealer.

Applicable percentage ownership is based on 195,486,278 shares of common stock outstanding as of July 21, 2026.

	Shares Beneficially Owned Before this Offering		Number of Shares Offered	Shares Beneficially Owned After this Offering[4]	
Name of Selling Stockholder	Shares	%		Shares	%
KKR Genetic Disorder L.P. and its affiliates[1]	14,232,739	7.3%	14,232,739	0	*
Chinotto Investments, LLC[2]	5,805,936	2.9%	5,805,936	0	*
Aisling Capital IV, LP[3]	4,589,611	2.3%	6,068,125	0	*

* Less than 1%.

(1) Consists of (i) 13,260,971 shares of common stock directly held by KKR Genetic Disorder L.P. and (ii) 971,768 shares of common stock issuable upon conversion of 133,900 shares of the Preferred Stock, based on the initial conversion price of $137.79 per share and without giving effect to any shares issuable in respect of accrued and accumulated dividends shares of common stock, directly held by HCRx Investments HoldCo, L.P.

KKR Genetic Disorder GP LLC, as the general partner of KKR Genetic Disorder L.P., KKR Group Partnership L.P., as the sole member of KKR Genetic Disorder GP LLC, KKR Group Holdings Corp., as the general partner of KKR Group Partnership L.P., KKR Group Co. Inc., as the sole shareholder of KKR Group Holdings Corp., KKR & Co. Inc., as the sole shareholder of KKR Group Co. Inc., KKR Management LLP, as the Series I preferred stockholder of KKR & Co. Inc., and Messrs. Henry R. Kravis and George R. Roberts, as the founding partners of KKR Management LLP, may be deemed to be the beneficial owners having shared voting and investment power with respect to the securities reported herein as being held directly by KKR Genetic Disorder L.P.

HCRx Master GP, LLC , as the general partner of HCRx Investments HoldCo, L.P., Healthcare Royalty Management, LLC as the investment manager of HCRx Investments HoldCo, L.P., KKR Harbor Holdings L.P., as a member of Healthcare Royalty Management, LLC, KKR Harbor Holdings GP LLC, as the general partner of KKR Harbor Holdings L.P., KKR Group Assets Holdings III L.P. as the sole member of KKR Harbor Holdings GP LLC, KKR Group Assets III GP LLC, as the general partner of KKR Group Assets Holdings III L.P., KKR Group Partnership L.P., as the sole member of KKR Group Assets III GP LLC, KKR Group Holdings Corp., as the general partner of KKR Group Partnership L.P., KKR Group Co. Inc., as the sole shareholder of KKR Group Holdings Corp., KKR & Co. Inc., as the sole shareholder of KKR Group Co. Inc., KKR Management LLP, as the Series I preferred stockholder of KKR & Co. Inc., and Messrs. Henry R. Kravis and George R. Roberts, as the founding partners of KKR Management LLP, may be deemed to be the beneficial owners of the securities reported herein as being held directly by HCRx Investments HoldCo, L.P.

The principal business address of each of the entities and persons identified in the paragraphs above, except Mr. Roberts, HCRx Investments HoldCo, L.P., HCRx Master GP, LLC and Healthcare Royalty Management, LLC, is c/o Kohlberg Kravis Roberts & Co. L.P., 30 Hudson Yards, New York, NY 10001. The principal business address for Mr. Roberts is c/o Kohlberg Kravis Roberts & Co. L.P., 2800 Sand Hill Road, Suite 200, Menlo Park, CA 94025. The principal business address of HCRx Investments HoldCo, L.P., HCRx Master GP, LLC and Healthcare Royalty Management, LLC is 300 Atlantic Street, Suite 600, Stamford, CT 06901. Mr. Satvat is a member of our Board of Directors and serves as an executive of Kohlberg Kravis Roberts & Co. L.P. and/or one or more of its affiliates. Each of Messrs. Kravis, Roberts and Satvat and each of the entities and persons described in this footnote as a result of any sole member, general partner, sole shareholder, preferred stockholder or founding partner relationship, as applicable, disclaims beneficial ownership of the shares held by KKR Genetic Disorder L.P. and HCRx Investments HoldCo, L.P. The principal business address of Mr. Satvat is c/o Kohlberg Kravis Roberts & Co. L.P., 2800 Sand Hill Road, Suite 200, Menlo Park, CA 94025.

(2) TSSP Sub-Fund HoldCo, a Delaware limited liability company (“Sub-Fund Holdco”) is the sole member of TAO SPV GP, LLC, a Delaware limited liability company, which is the manager of Chinotto Investments, LLC, a Delaware limited liability company (“Chinotto”), which directly holds the securities reported herein. Sub-Fund Holdco is managed by its sole member, whose managing member is Alan Waxman. Because of their relationship to Chinotto, Sub-Fund Holdco and Mr. Waxman may each be deemed to beneficially own the securities held by Chinotto. Each of Sub-Fund HoldCo and Mr. Waxman disclaims beneficial ownership of the securities held by Chinotto except to the extent of their pecuniary interest therein.

(3) Consists of 4,589,611 shares of common stock directly owned by Aisling Capital IV, LP (“Aisling”) and held indirectly by Aisling Capital Partners IV, LP (“Aisling GP”), as general partner of Aisling, Aisling Capital Partners IV LLC (“Aisling Partners”), as general partner of Aisling GP, and each of the individual managing members of Aisling Partners. The individual managing members (collectively, the “Managers”) of Aisling Partners are Dr. Andrew Schiff and Steve Elms. Aisling GP, Aisling Partners and the Managers share voting and dispositive power over the shares directly held by Aisling. Each of Aisling GP, Aisling Partners and the Managers may be deemed to be the beneficial owner of the securities listed above only to the extent of its pecuniary interest therein. The above information shall not be deemed an admission that any of Aisling GP, Aisling Partners or any of the Managers is the beneficial owner of any securities reported herein. The address of the principal business offices of each of these entities and individuals is 489 Fifth Avenue, 10th Floor, New York, NY 10017.

(4) Assumes that the Selling Stockholders dispose of all of their respective shares of common stock covered by this prospectus and do not acquire beneficial ownership of any additional shares of common stock. The registration of these shares of common stock does not necessarily mean that the Selling Stockholders will sell all or any portion of their respective shares of common stock covered by this prospectus.

PLAN OF DISTRIBUTION

We are registering the shares of common stock held by the Selling Stockholders, including the shares of common stock issuable upon conversion of preferred stock held by certain of the Selling Stockholders, to permit the resale of such shares from time to time after the date of this prospectus. We will not receive any of the proceeds from the sale by the Selling Stockholders of the shares of common stock. We will bear all fees and expenses incident to our obligation to register the shares of common stock.

The Selling Stockholders may sell all or a portion of the shares of common stock beneficially owned by them and offered hereby from time to time directly or through one or more underwriters, broker-dealers or agents. If the shares of common stock are sold through underwriters or broker-dealers, the Selling Stockholders will be responsible for underwriting discounts or selling commissions. The shares of common stock may be sold on any national securities exchange or quotation service on which the securities may be listed or quoted at the time of sale, in the over-the-counter market or in transactions otherwise than on these exchanges or systems or in the over-the-counter market and in one or more other transactions, including transactions at fixed prices, at prevailing market prices at the time of the sale, at varying prices determined at the time of sale, or at negotiated prices. These sales may be effected in transactions, which may involve crosses or block transactions. The Selling Stockholders may use any one or more of the following methods when selling shares:

- an underwritten offering;
- ordinary brokerage transactions and transactions in which the broker-dealer solicits purchasers;
- block trades in which the broker-dealer will attempt to sell the shares as agent but may position and resell a portion of the block as principal to facilitate the transaction;
- purchases by a broker-dealer as principal and resale by the broker-dealer for its account;
- an exchange distribution in accordance with the rules of the applicable exchange;
- privately negotiated transactions;
- settlement of short sales entered into after the effective date of the registration statement of which this prospectus is a part;
- broker-dealers may agree with the Selling Stockholders to sell a specified number of such shares at a stipulated price per share;
- through the writing or settlement of options or other hedging transactions, whether such options are listed on an options exchange or otherwise;
- a combination of any such methods of sale; and
- any other method permitted pursuant to applicable law.

The Selling Stockholders also may resell all or a portion of the shares in open market transactions in reliance upon an exemption from registration under the Securities Act, including upon Rule 144 under the Securities Act, as permitted by that rule, or Section 4(a)(1) under the Securities Act, if available, rather than under this prospectus (as supplemented or amended to reflect such transactions); provided that they meet the criteria and conform to the requirements of such exemptions and provisions.

Broker-dealers engaged by the Selling Stockholders may arrange for other broker-dealers to participate in sales. If the Selling Stockholders effect such transactions by selling shares of common stock to or through underwriters, broker-dealers or agents, such underwriters, broker-dealers or agents may receive commissions in the form of discounts, concessions or commissions from the Selling Stockholders or commissions from purchasers of the shares of common stock for whom they may act as agent or to whom they may sell as principal. Such commissions will be in amounts to be negotiated, but, except as set forth in a further prospectus supplement or an amendment to this prospectus, in the case of an agency transaction will not be in excess of a customary brokerage commission in compliance with FINRA Rule 2121; and in the case of a principal transaction a markup or markdown in compliance with FINRA Rule 2121.01.

In connection with sales of the shares of common stock or otherwise, the Selling Stockholders may enter into hedging transactions with broker-dealers or other financial institutions, which may in turn engage in short sales of the shares of common stock in the course of hedging in positions they assume. The Selling Stockholders may also

sell shares of common stock short and if such short sale shall take place after the date of this prospectus, the Selling Stockholders may deliver shares of common stock covered by this prospectus to close out short positions and to return borrowed shares in connection with such short sales. The Selling Stockholders may also loan or pledge shares of common stock to broker-dealers that in turn may sell such shares, to the extent permitted by applicable law. The Selling Stockholders may also enter into option or other transactions with broker-dealers or other financial institutions or the creation of one or more derivative securities which require the delivery to such broker-dealer or other financial institution of shares offered by this prospectus, which shares such broker-dealer or other financial institution may resell pursuant to this prospectus (as supplemented or amended to reflect such transaction).

The Selling Stockholders may, from time to time, pledge or grant a security interest in some or all of the shares of common stock owned by them and, if they default in the performance of their secured obligations, the pledgees or secured parties may offer and sell the shares of common stock from time to time pursuant to this prospectus or under a supplement or any amendment to this prospectus under an applicable provision of the Securities Act, amending, if necessary, the list of Selling Stockholders to include the pledgee, transferee or other successors in interest as Selling Stockholders under this prospectus. The Selling Stockholders also may transfer and donate the shares of common stock in other circumstances in which case the transferees, donees, pledgees or other successors in interest will be the selling beneficial owners for purposes of this prospectus.

Each Selling Stockholder has informed the Company that it is not a registered broker-dealer and does not have any written or oral agreement or understanding, directly or indirectly, with any person to distribute the common stock. Upon the Company being notified in writing by a Selling Stockholder that any material arrangement has been entered into with a broker-dealer for the sale of common stock through a block trade, special offering, exchange distribution or secondary distribution or a purchase by a broker or dealer, a supplement or amendment to this prospectus will be filed, if required, pursuant to Rule 424(b) under the Securities Act, disclosing (i) the name of each such Selling Stockholder and of the participating broker-dealer(s), (ii) the number of shares involved, (iii) the price at which such the shares of common stock were sold, (iv) the commissions paid or discounts or concessions allowed to such broker-dealer(s), where applicable, (v) that such broker-dealer(s) did not conduct any investigation to verify the information set out or incorporated by reference in this prospectus, and (vi) other facts material to the transaction.

Under the securities laws of some states, the shares of common stock may be sold in such states only through registered or licensed brokers or dealers. In addition, in some states the shares of common stock may not be sold unless such shares have been registered or qualified for sale in such state or an exemption from registration or qualification is available and is complied with.

There can be no assurance that any Selling Stockholder will sell any or all of the shares of common stock registered pursuant to the registration statement, of which this prospectus forms a part.

Each Selling Stockholder and any other person participating in such distribution will be subject to applicable provisions of the Exchange Act and the rules and regulations thereunder, including, without limitation, to the extent applicable, Regulation M of the Exchange Act, which may limit the timing of purchases and sales of any of the shares of common stock by the Selling Stockholder and any other participating person. To the extent applicable, Regulation M may also restrict the ability of any person engaged in the distribution of the shares of common stock to engage in market-making activities with respect to the shares of common stock. All of the foregoing may affect the marketability of the shares of common stock and the ability of any person or entity to engage in market-making activities with respect to the shares of common stock.

We will pay all expenses of the registration of the shares of common stock pursuant to the RRAs, including, without limitation, SEC filing fees, expenses of compliance with state securities or “blue sky” laws and certain expenses, as applicable, of one counsel to the 2019 Selling Stockholders appointed pursuant to the 2019 RRA and the fees and disbursements of counsel retained by the 2026 Selling Stockholders, in an aggregate amount not to exceed $20,000, pursuant to the 2026 RRA; provided, however, that each Selling Stockholder will pay all underwriting discounts and selling commissions, if any and any other related legal expenses incurred by it. We will indemnify the Selling Stockholders against certain liabilities, including some liabilities under the Securities Act, in accordance with the RRAs, or the Selling Stockholders will be entitled to contribution. We may be indemnified by the Selling Stockholders against certain liabilities, including some liabilities under the Securities Act, that may arise from any written information furnished to us by the Selling Stockholders specifically for use in this prospectus, in accordance with the related RRA, or we may be entitled to contribution.

LEGAL MATTERS

The validity of the shares of common stock being offered hereby will be passed upon for us by Goodwin Procter LLP, San Francisco, California.

EXPERTS

The consolidated financial statements of BridgeBio Pharma, Inc. incorporated by reference in this Prospectus, and the effectiveness of BridgeBio Pharma, Inc.'s internal control over financial reporting have been audited by Deloitte & Touche LLP, an independent registered public accounting firm, as stated in their reports. Such financial statements are incorporated by reference in reliance upon the reports of such firm, given their authority as experts in accounting and auditing.

WHERE YOU CAN FIND MORE INFORMATION

This prospectus is part of a registration statement that we have filed with the SEC. Certain information in the registration statement has been omitted from this prospectus in accordance with the rules of the SEC. We are subject to the information requirements of the Exchange Act and, in accordance therewith, file annual, quarterly and special reports, proxy statements and other information with the SEC. These documents may be accessed without charge through the SEC's electronic data gathering, analysis and retrieval system, or EDGAR, via electronic means, including the SEC's home page on the Internet (*www.sec.gov*). You may also inspect the registration statement, this prospectus and any applicable prospectus supplement on this website.

Those filings are also available to the public on, or accessible through, our website at *https://bridgebio.com*. Information contained on our website is not incorporated by reference into this prospectus, and, except for the documents incorporated by reference as noted below, you should not consider any information on, or that can be accessed from, our website as part of this prospectus or the registration statement of which this prospectus is a part.

INCORPORATION OF CERTAIN INFORMATION BY REFERENCE

The SEC allows us to incorporate by reference the information and reports we file with it, which means that we can disclose important information to you by referring you to these documents. The information incorporated by reference is an important part of this prospectus, and information that we file after the date hereof with the SEC will automatically update and supersede the information already incorporated by reference. We are incorporating by reference the documents listed below, which we have already filed with the SEC, and any future filings we make with the SEC under Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act, except as to any portion of any future report or document that is not deemed filed under such provisions, after the date of this prospectus and prior to the termination of this offering:

- our Annual Report on Form 10-K for the year ended December 31, 2025, filed with the SEC on February 24, 2026;
- our Quarterly Report on Form 10-Q for the quarter ended March 31, 2026, filed with the SEC on May 7, 2026;
- our Definitive Proxy Statement on Schedule 14A (other than information furnished rather than filed), filed with the SEC on April 24, 2026;
- our Current Reports on Form 8-K filed with the SEC on January 12, 2026 (with respect to Item 8.01 only), January 21, 2026, February 12, 2026, March 30, 2026, May 7, 2026 (with respect to Item 8.01 only), May 8, 2026, May 13, 2026, May 27, 2026, June 26, 2026, July 2, 2026 (with respect to Items 1.01, 3.02, 3.03, and 5.03 only), and July 22, 2026 (in each case, other than information furnished rather than filed); and
- the description of our common stock contained in Exhibit 4.3 to our Annual Report on Form 10-K for the fiscal year ended December 31, 2021, filed with the SEC on February 25, 2022, including any amendments or reports filed for the purpose of updating such description.

Pursuant to Rule 412 under the Securities Act, any statement contained in a document incorporated or deemed to be incorporated by reference into this prospectus will be deemed to be modified or superseded for purposes of this prospectus to the extent that a statement contained in this prospectus or any other subsequently filed document that is deemed to be incorporated by reference into this prospectus modifies or supersedes the statement. Any statement so modified or superseded will not be deemed, except as so modified or superseded, to constitute a part of this prospectus.

Upon request, we will provide, without charge, to each person, including any beneficial owner, to whom a copy of this prospectus is delivered, a copy of the documents incorporated by reference into this prospectus but not delivered with the prospectus. You may request a copy of these filings, and any exhibits we have specifically incorporated by reference as an exhibit in this prospectus, at no cost by writing us at the following address: BridgeBio Pharma, Inc., 3160 Porter Drive, Suite 250, Palo Alto, CA 94304. Our website is located at *https://bridgebio.com*. The reference to our website is intended to be an inactive textual reference and, except for the documents incorporated by reference as noted above, the information on, or accessible through, our website is not intended to be part of this prospectus.

You should rely only on the information incorporated by reference or provided in this prospectus. We have not authorized anyone else to provide you with different information. You should not assume that the information in this prospectus or in the documents incorporated by reference is accurate as of any date other than the date on the front of this prospectus or those documents.

This prospectus is part of a registration statement we filed with the SEC. We have incorporated exhibits into such registration statement. You should read the exhibits carefully for provisions that may be important to you.

5,000,000 Shares



BridgeBio Pharma, Inc.

Common Stock

PROSPECTUS SUPPLEMENT

William Blair **Goldman Sachs & Co. LLC** **KKR**

August 13, 2026