



**876,470 Shares of Common Stock**  
**Pre-Funded Warrants to Purchase up to 300,000 Shares of Common Stock**  
**Warrants to Purchase up to 2,352,940 Shares of Common Stock**

We are offering 876,470 shares of common stock and accompanying warrants to purchase up to 1,752,940 shares of our common stock at a combined public offering price of \$4.25 per share of common stock and accompanying warrants.

We are also offering to those purchaser whose purchase of our common stock in this offering would otherwise result in such purchaser, together with its affiliates and certain related parties, beneficially owning more than 4.99% of our outstanding common stock immediately following the consummation of this offering, in lieu of purchasing common stock, pre-funded warrants to purchase up to an aggregate of 300,000 shares of our common stock, or Pre-Funded Warrants, and accompanying warrants to purchase up to an aggregate of 600,000 shares of common stock. Each Pre-Funded Warrant will be exercisable for one share of our common stock (subject to adjustment as provided for therein) at any time at the option of the holder until such Pre-Funded Warrant is exercised in full, provided that the holder will be prohibited from exercising Pre-Funded Warrants for shares of our common stock if, as a result of such exercise, the holder, together with its affiliates, would own more than 4.99% of the total number of shares of our common stock then issued and outstanding. However, any holder may increase such percentage to any other percentage not in excess of 9.99%, provided that any increase in such percentage shall not be effective until 61 days after such notice to us. The purchase price of each Pre-Funded Warrant is equal to the price per share at which shares of our common stock and accompanying warrants to purchase common stock are being sold to the public in this offering, minus \$0.0001, and the exercise price of each Pre-Funded Warrant will equal \$0.0001 per share of common stock. Pursuant to this prospectus, we are also offering the shares of common stock issuable upon the exercise of the warrants and Pre-Funded Warrants offered hereby.

Each share of our common stock, or Pre-Funded Warrant in lieu thereof, is being sold together with a warrant to purchase two shares of our common stock. Each warrant will have an exercise price per of \$4.25 per share, will be immediately exercisable and will expire on the fifth anniversary of the original issuance date. The shares of our common stock and warrants are immediately separable and will be issued separately, but will be purchased together in this offering.

Our common stock is listed on The Nasdaq Capital Market under the symbol "BIOC." On May 24, 2023, the last reported sale price of our common stock on The Nasdaq Capital Market was \$4.25 per share. There is no established trading market for the warrants or Pre-Funded Warrants and we do not expect a market to develop. In addition, we do not intend to apply for the listing of the warrants or Pre-Funded Warrants on any national securities exchange or other trading market. Without an active trading market, the liquidity of the warrants and the Pre-Funded Warrants will be limited.

**Investing in our securities involves a high degree of risk. See "[Risk Factors](#)" beginning on page 6 of this prospectus for a discussion of information that should be considered in connection with an investment in our securities.**

**Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.**

	<b>Per Share and Accompanying Warrants</b>	<b>Per Pre-Funded Warrant and Accompanying Warrants</b>	<b>Total</b>
Public offering price	\$ 4.25	\$ 4.2499	\$4,999,967.50
Underwriting discounts and commissions <sup>(1)</sup>	\$ 0.2975	\$ 0.2975	\$ 349,999.83
Proceeds, before expenses, to us	\$ 3.9525	\$ 3.9524	\$4,649,967.67

(1) See "Underwriting" beginning on page 20 for additional disclosure regarding underwriting discounts and commissions and reimbursement of expenses.

We have granted the underwriters an option for a period of 45 days from the date of this prospectus to purchase up to an additional 176,470 shares of common stock and accompanying warrants to purchase up to 352,940 shares of common stock at the public offering price, less the underwriting discounts and commissions.

We anticipate that delivery of the shares, Pre-Funded Warrants and warrants against payment will be made on or about May 26, 2023.

*Sole Book-Running Manager*

**EF HUTTON**  
division of Benchmark Investments, LLC

*Lead Manager*

**Brookline Capital Markets**  
a division of Arcadia Securities, LLC

**The date of this prospectus is May 24, 2023.**

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We have not, and the underwriters have not, authorized anyone to provide you with information that is different from that contained in this prospectus or in any free writing prospectus we may authorize to be delivered or made available to you. We take no responsibility for, and can provide no assurance as to the reliability of, any other information that others may give you. Neither the delivery of this prospectus nor the sale of our securities means that the information contained in this prospectus or any free writing prospectus is correct after the date of this prospectus or such free writing prospectus. This prospectus is not an offer to sell or the solicitation of an offer to buy our securities in any circumstances under which the offer or solicitation is unlawful.

For investors outside the United States: We have not, and the underwriters have not, taken any action that would permit this offering or possession or distribution of this prospectus in any jurisdiction where action for that purpose is required, other than in the United States. Persons outside the United States who come into possession of this prospectus must inform themselves about, and observe any restrictions relating to, the offering of the securities covered hereby and the distribution of this prospectus outside the United States.

Unless otherwise indicated, information contained in this prospectus concerning our industry and the markets in which we operate, including our general expectations and market position, market opportunity and market share, is based on information from our own management estimates and research, as well as from industry and general publications and research, surveys and studies conducted by third parties. Management estimates are derived from publicly available information, our knowledge of our industry and assumptions based on such information and knowledge, which we believe to be reasonable. Our management estimates have not been verified by any independent source, and we have not independently verified any third-party information. In addition, assumptions and estimates of our and our industry's future performance are necessarily subject to a high degree of uncertainty and risk due to a variety of factors, including those described in "Risk Factors." These and other factors could cause our future performance to differ materially from our assumptions and estimates. See "Special Note Regarding Forward-Looking Statements."

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

We use in this prospectus our BIOCEPT logo and CNSide, for which United States trademark applications have been filed. This prospectus also includes trademarks, tradenames and service marks that are the property of other organizations. Solely for convenience, trademarks and tradenames referred to in this prospectus appear (after the first usage) without the ® and ™ symbols, but those references are not intended to indicate, in any way, that we will not assert, to the fullest extent under applicable law, our rights or that the applicable owner will not assert its rights, to these trademarks and tradenames.

## SUMMARY

*This summary highlights information contained in other parts of this prospectus or incorporated by reference into this prospectus from our filings with the Securities and Exchange Commission, or SEC, listed in the section of the prospectus entitled “Incorporation of Certain Information by Reference.” Because it is only a summary, it does not contain all of the information that you should consider before purchasing our securities in this offering and it is qualified in its entirety by, and should be read in conjunction with, the more detailed information appearing elsewhere or incorporated by reference into this prospectus. You should read the entire prospectus, the registration statement of which this prospectus is a part, and the information incorporated by reference herein in their entirety, including the “Risk Factors” and our financial statements and the related notes incorporated by reference into this prospectus, before purchasing our securities in this offering. Unless the context requires otherwise, references in this prospectus to “Biocept,” “we,” “us” and “our” refer to Biocept, Inc.*

### **Our Company**

We are a molecular oncology diagnostics company that develops and commercializes proprietary clinical diagnostic laboratory assays designed to identify rare tumor cells and cell-free tumor DNA from blood and cerebrospinal fluid, or CSF. The identification of tumor cells and cell-free tumor DNA in CSF has become our principal development focus following our early commercial expansion into CSF in 2020. This product was branded and trademarked as CNSide™ in April 2021.

The identification of circulating tumor cells, or CTCs, and circulating cell-free tumor DNA and RNA, or ctDNA and ctRNA, derived from solid tumors such as breast cancer, lung cancer and melanoma using a standard blood sample has been described as a “liquid biopsy.” This term reflects the ease with which peripheral blood can be drawn compared to performing a surgical biopsy, but this technology is not limited to a peripheral blood approach.

In January 2020, we adapted and validated our proprietary blood-based liquid biopsy technology for commercial and clinical research use in CSF to identify tumor cells that have metastasized to the central nervous system, or CNS, in patients with advanced lung cancer or breast cancer. We have subsequently broadened the CNSide indications for use to include all carcinomas and melanomas. CNSide has been designed to improve the clinical management of patients with suspected metastatic cancer involving the CNS by enabling the quantitative analysis and molecular characterization of tumor cells and ctDNA and ctRNA in the CSF. Since then, we have worked extensively with leading neuro-oncologists and other cancer experts to further define and characterize the use of this unique assay.

The initial disease focus for CNSide is in leptomeningeal metastasis, or LM. LM is a condition in which the primary tumor develops a secondary malignant growth in leptomeningeal tissue; that is, two of the three membranes surrounding human brain and spinal cord. These membranes are also known specifically as the arachnoid and pia mater. Clinically, this tissue is almost always unobtainable for biopsy purposes and CSF sampling is required for these patients. CSF continuously flows between these membranes and is used clinically to diagnose leptomeningeal disease. The incidence of LM among patients with solid tumors has risen over the past several decades. Epidemiologic studies suggest that 3-8% of patients with solid tumors will develop LM. However, at autopsy, the frequency of LM averages twenty percent and is much higher in some tumor types. The most common solid tumors giving rise to LM are breast cancer, lung cancer, melanoma, and gastrointestinal malignancies. Currently the survivability of leptomeningeal disease in solid tumors in patients not receiving treatment is measured in weeks.

The gold standard for making the diagnosis of LM, is CSF cytology, which has a clinical sensitivity of approximately 50%. As a result, MRI imaging is heavily relied upon by oncologists but suffers from a limited

specificity of approximately 77%. Additionally, previous attempts to create an MRI-based “scorecard” for leptomeningeal disease to assess treatment response/disease progression have had varied success.

Given the challenges associated with diagnosing LM and the need for biomarker information to guide therapeutic management, the opportunity for advanced technologies to benefit these patients became clear. This is the context under which CNSide has been developed, allowing it to potentially address significant unmet medical needs. We summarize the unmet needs for managing metastatic brain cancer patients as follows: Is there tumor (diagnosis)? Is there target (presence of a biomarker to aid treatment selection)? Is there trend (a response to therapy)?

The question “Is there tumor?” is essential for the diagnostic work-up of these patients. Tumor cells in the blood can be shed from either primary or metastatic tumors. They can be rapidly removed in the capillary beds of the spleen, liver, kidneys, lungs and other organs, so they are rarely found. Conversely, tumor cells in the CSF are the defining feature of leptomeningeal disease. To distinguish tumor cells derived from CSF and from blood we often refer to tumor cells in CSF as CSF tumor cells, rather than CTCs.

Regarding the second clinical question, “Is there target?” our CNSide assay provides a vehicle for several different diagnostic assay profiles which combined with our molecular test menu can identify tumor cell biomarkers that are intended to help physicians make decisions related to the evolution or course of metastatic tumor that may inform treatment decisions. Cancer cells typically acquire genetic alterations which differ from that of normal cells. Metastatic cancers often acquire additional genetic alterations which distinguish them from the primary tumor site. This marked genetic variation between areas of tumor growth is termed “genetic heterogeneity,” and findings related to this were featured in our San Antonio Breast Cancer Symposium presentation in December 2021 illustrating the value of CNSide in identifying “genetic heterogeneity” of a targetable biomarker called HER2.

Finally, regarding the third clinical question, “Is there trend?” over the past three years, having tested CNSide in more than one thousand patients, we have gained considerable experience with detecting CSF tumor cells of patients that have been sampled multiple times over the course of their treatment. The association of quantitative CSF tumor cell counts with response to treatment has been noted in both lung and breast cancer, as well as other tumors examined. In August 2021, at the Society for Neuro-Oncology (SNO) Brain Metastases meeting, we presented data obtained from a single institution showing how serial monitoring of CSF tumor cells by CNSide was used to determine the response to treatment in patients with Non-Small Cell Lung Cancer having LM. In addition, in November 2021 at the SNO annual meeting, we presented the early findings of several patients with breast cancer having LM which had been followed with multiple CSF samples drawn at different time points throughout each patient’s treatment. The downward progression of tumor cell counts has been noted by several treating physicians to correlate with response to treatment and resolution of symptoms. Serial monitoring of genetic alterations present in CSF tumor cells may create opportunities to change the therapy of certain patients throughout treatment. These observations presented in abstracts and poster presentations in 2021 and 2022 have informed our clinical study strategy which is the basis for our ongoing efforts to further explore these observations in a prospective clinical trial.

### **Recent Developments**

On May 11, 2023, at a special meeting of stockholders, our stockholders approved an amendment to our Amended and Restated Certificate of Incorporation, as amended, to effect a reverse split of our outstanding common stock, at a ratio ranging from 1-for-15 to 1-for-30, with the final ratio to be determined by our board of directors. On May 16, 2023, we filed a Certificate of Amendment to Amended and Restated Certificate of Incorporation with the Secretary of State of the State of Delaware to effect a 1-for-30 reverse stock split of our outstanding common stock. The reverse stock split became effective at 4:05 p.m. Eastern Time on May 16, 2023.

Our common stock began trading on The Nasdaq Capital Market on a split-adjusted basis on Wednesday, May 17, 2023.

**Corporate Information**

Our principal executive offices and our laboratory operations are located at 9955 Mesa Rim Road, San Diego, California 92121. Our telephone number is (858) 320-8200 and our website address is [www.biocept.com](http://www.biocept.com). The information contained in, or that can be accessed through, our website is not incorporated into and is not part of this prospectus. We were incorporated in California on May 12, 1997 and reincorporated as a Delaware corporation on July 30, 2013.

**Implications of Being a Smaller Reporting Company**

We are a “smaller reporting company,” meaning that the market value of our stock held by non-affiliates is less than \$700 million and our annual revenue was less than \$100 million during our most recently completed fiscal year. We may continue to be a smaller reporting company if either (i) the market value of our stock held by non-affiliates is less than \$250 million or (ii) our annual revenue was less than \$100 million during the most recently completed fiscal year and the market value of our stock held by non-affiliates is less than \$700 million. For so long as we remain a smaller reporting company, we are permitted and intend to rely on exemptions from certain disclosure and other requirements that are applicable to other public companies that are not smaller reporting companies.

### The Offering

<b>Common stock offered by us</b>	876,470 shares (or 1,052,940 shares if the underwriters' option to purchase additional shares and accompanying warrants is exercised in full).
<b>Pre-Funded Warrants offered by us</b>	<p>We are also offering to those purchasers whose purchase of common stock in this offering would otherwise result in such purchaser, together with its affiliates and certain related parties, beneficially owning more than 4.99% of our outstanding common stock immediately following the consummation of this offering, in lieu of purchasing common stock, Pre-Funded Warrants to purchase up to 300,000 shares of our common stock. The purchase price of each Pre-Funded Warrant is equal to the price per share at which the shares of common stock and accompanying warrants to purchase common stock are being sold to the public in this offering, minus \$0.0001, and the exercise price of each Pre-Funded Warrant will be \$0.0001 per share of common stock. Each Pre-Funded Warrant will be exercisable immediately upon issuance and will not expire. This prospectus also relates to the offering of the shares of common stock issuable upon exercise of such Pre-Funded Warrants. See "Description of the Securities We are Offering-Pre-Funded Warrants" for a discussion on the terms of the Pre-Funded Warrants.</p> <p>Each Pre-Funded Warrant is exercisable for one share of our common stock (subject to adjustment as provided therein) at any time at the option of the holder, provided that the holder will be prohibited from exercising its Pre-Funded Warrant for shares of our common stock if, as a result of such exercise, the holder, together with its affiliates, would own more than 4.99% of the total number of shares of our common stock then issued and outstanding. However, any holder may increase such percentage to any other percentage not in excess of 9.99%, provided that any increase in such percentage shall not be effective until 61 days after such notice to us.</p>
<b>Warrants offered by us</b>	Warrants to purchase up to 2,352,940 shares of our common stock (or 2,705,880 shares if the underwriters' option to purchase additional shares and accompanying warrants is exercised in full). Each share of our common stock, or Pre-Funded Warrant in lieu thereof, is being sold together with a warrant to purchase two shares of our common stock. Each warrant will have an exercise price of \$4.25 per share, will be immediately exercisable and will expire on the fifth anniversary of the original issuance date. This prospectus also relates to the offering of the shares of common stock issuable upon exercise of such warrants.
<b>Option to purchase additional shares and accompanying warrants</b>	We have granted the underwriters an option for a period of 45 days from the date of this prospectus to purchase up to an additional 176,470 shares of common stock and accompanying warrants to purchase up to 352,940 shares of common stock at the public offering price, less the underwriting discounts and commissions.

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<b>Common stock outstanding after this offering</b>	1,769,327 shares (assuming the exercise in full of all Pre-Funded Warrants sold in this offering) or 1,945,797 shares if the underwriters' option to purchase additional shares and accompanying warrants is exercised in full, assuming none of the accompanying warrants to purchase common stock issued in this offering are exercised.
<b>Use of proceeds</b>	We currently expect to use the net proceeds from this offering for the advancement of our FORESEE trial for CNSide, working capital and general corporate purposes. For additional information please refer to the section entitled "Use of Proceeds" of this prospectus.
<b>Risk Factors</b>	Investing in our securities involves a high degree of risk. You should carefully review and consider the "Risk Factors" section of this prospectus for a discussion of factors to consider before deciding to purchase any of our securities in this offering.
<b>Market Symbol and trading</b>	Our common stock is listed on The Nasdaq Capital Market under the symbol "BIOC." There is no established trading market for the warrants or Pre-Funded Warrants and we do not expect a market to develop. In addition, we do not intend to apply for the listing of the warrants or Pre-Funded Warrants on any national securities exchange or other trading market. Without an active trading market, the liquidity of the warrants and Pre-Funded Warrants will be limited.

Unless otherwise stated, all information contained in this prospectus assumes the exercise in full of all Pre-Funded Warrants sold in lieu of common stock in this offering and no exercise by the underwriters of their option to purchase additional shares and accompanying warrants in this offering, and gives effect to a 1-for-30 reverse stock split of our outstanding common stock that was effected on May 16, 2023.

The number of shares of our common stock to be outstanding after this offering is based on 592,857 shares of our common stock outstanding as of March 31, 2023 and excludes as of such date:

- up to 1,519 shares of common stock issuable upon the conversion of Series A Convertible Preferred Stock outstanding;
- 61,665 shares of our common stock issuable upon the exercise of stock options, with a weighted-average exercise price of \$97.95 per share;
- 26,287 shares of our common stock issuable upon the exercise of outstanding warrants, with a weighted-average exercise price of \$728.04 per share; and
- 91,215 shares of our common stock reserved for future issuance under our 2013 Amended and Restated Equity Incentive Plan.

## RISK FACTORS

*Investing in our securities involves a high degree of risk. You should consider carefully the risks described below, together with all of the other information included or incorporated by reference in this prospectus, including the risks and uncertainties discussed under “Risk Factors” in our Quarterly Report on Form 10-Q for the quarter ended March 31, 2023, which has been filed with the SEC and is incorporated by reference in this prospectus, as well as any updates thereto contained in subsequent filings with the SEC or any free writing prospectus, before deciding whether to purchase our securities in this offering. All of these risk factors are incorporated herein in their entirety. The risks described below and incorporated by reference are material risks currently known, expected or reasonably foreseeable by us. However, the risks described below are not the only ones that we face. Additional risks not presently known to us or that we currently deem immaterial may also affect our business, operating results, prospects or financial condition. If any of these risks actually materialize, our business, prospects, financial condition, and results of operations could be seriously harmed. This could cause the trading price of our common stock and the value of the warrants to decline, resulting in a loss of all or part of your investment.*

### **Risks Relating to This Offering**

***If you purchase our securities in this offering, you will incur immediate and substantial dilution in the book value of your shares.***

The combined public offering price per share of our common stock and accompanying warrants is substantially higher than the net tangible book value per share of our common stock immediately prior to the offering. After giving effect to the sale of 1,176,470 shares of our common stock (assuming the exercise in full of the Pre-Funded Warrants sold in this offering) and accompanying warrants in this offering, at the combined public offering price of \$4.25 per share and accompanying warrants, and after deducting the underwriting discounts and commissions and estimated offering expenses payable by us and attributing no value to the warrants sold in this offering, purchasers of our common stock in this offering will incur immediate dilution of \$0.62 per share in the net tangible book value of the common stock they acquire. In the event that you exercise your warrants, you may experience additional dilution to the extent that the exercise price of the warrants is higher than the tangible book value per share of our common stock. For a further description of the dilution that investors in this offering may experience, see “Dilution.”

In addition, to the extent that outstanding stock options or warrants have been or may be exercised or other shares issued, you may experience further dilution.

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

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

***Future sales of substantial amounts of our common stock could adversely affect the market price of our common stock.***

We may choose to raise additional capital due to market conditions or strategic considerations even if we believe we have sufficient funds for our current or future operating plans. If additional capital is raised through

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the sale of equity or convertible debt securities, or perceptions that those sales could occur, the issuance of those securities could result in further dilution to investors purchasing our common stock in this offering or result in downward pressure on the price of our common stock, and our ability to raise capital in the future.

***Holders of our warrants and Pre-Funded Warrants will have no rights as a common stockholder until they acquire our common stock.***

Until you acquire shares of our common stock upon exercise of your warrants or Pre-Funded Warrants, you will have no rights with respect to shares of our common stock issuable upon exercise of your warrants or Pre-Funded Warrants. Upon exercise of your warrants or Pre-Funded Warrants, you will be entitled to exercise the rights of a common stockholder only as to matters for which the record date occurs after the exercise date.

***The warrants may not have any value.***

Each warrant will have an exercise price of \$4.25 per share and will expire on the fifth anniversary of the date they first become exercisable. In the event our common stock price does not exceed the exercise price of the warrants during the period when the warrants are exercisable, the warrants may not have any value other than pursuant to the alternative cashless exercise feature.

***There is no public market for the warrants to purchase shares of our common stock or Pre-Funded Warrants being offered in this offering.***

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

***There is substantial doubt about our ability to continue as a going concern. Even if we complete this offering, we will need to raise additional capital to fund our operations in the future.***

Based on our existing resources prior to this offering, we expect that our resources will only be sufficient to fund our planned operations and expenditures into the third quarter of 2023. We believe that the estimated net proceeds from this offering, together with our existing cash, cash equivalents and short-term investments, will be sufficient to fund our planned operations through the end of September 2023. In addition, potentially changing circumstances may also result in the depletion of our capital resources more rapidly than we currently anticipate. These circumstances raise substantial doubt about our ability to continue as a going concern. Management intends to continue its efforts to contain costs and to raise additional capital until we can generate sufficient cash from commercial sales to support operations, if ever. Until we can generate significant cash from operations, including product and assay revenues, we expect to continue to fund our operations with the proceeds from offerings of our equity securities or debt, or transactions involving product development, technology licensing or collaboration. We can provide no assurances that any sources of a sufficient amount of financing will be available to us on favorable terms, if at all. General market conditions resulting from high inflation, high interest rates, global supply chain issues, the Russia-Ukraine conflict, COVID-19, bank failures, general economic uncertainty and other macroeconomic factors, as well as market conditions affecting companies in the life sciences industry in general, may make it difficult for us to obtain financing from the capital markets on attractive terms, or at all. Failure to raise additional capital in sufficient amounts when needed would significantly impact our ability to continue as a going concern. The actual amount of funds that we will need and the timing of any such investment will be determined by many factors, some of which are beyond our control. To fund our current and planned operations in the short- and long-term, we may seek to raise additional capital through public or private equity offerings, debt financings, borrowings or strategic partnerships coupled with an investment in our company or a combination thereof. If we raise additional funds through the issuance of

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convertible debt securities, or other debt securities, these securities could be secured and could have rights senior to those of our common stock. In addition, any new debt incurred by us could impose covenants that restrict our operations. The issuance of any new equity securities will also dilute the interest of our current stockholders. Given the risks associated with our business, including our unprofitable operating history and our ability or inability to develop additional assays, and the current volatility in the equity markets, additional capital may not be available when needed on acceptable terms, or at all. There is no assurance that we will be able to raise adequate funds when needed or on favorable terms. If adequate funds are not available when needed, we will need to delay, scale back or discontinue one or more product development programs, curtail our commercialization activities, significantly reduce expenses (through reductions in our workforce or otherwise), sell assets (potentially at a discount to their fair value or carrying value), enter into relationships with third parties to develop or commercialize products or technologies that we otherwise would have sought to develop or commercialize independently, pursue an acquisition of our company at a price that may result in a significant loss on investment to our stockholders, file for bankruptcy, seek other protection from creditors, or liquidate all of our assets.

## SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

This prospectus and the documents incorporated herein by reference contain forward-looking statements. The forward-looking statements are contained principally in the sections entitled “Prospectus Summary,” “Risk Factors,” “Management’s Discussion and Analysis of Financial Condition and Results of Operations” and “Business” in this prospectus or the documents incorporated herein by reference. These statements relate to future events or to our future financial performance and involve known and unknown risks, uncertainties and other factors which may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements. Forward-looking statements include, but are not limited to, statements about:

- our ability to expand and enhance our current and planned CNSide service offerings to provide clinically meaningful information in additional cancers;
- future events related to the FORSEE clinical study;
- our ability to successful hire and develop a field-based sales force in the future, and the success of any such sales force;
- our ability to obtain coverage and adequate reimbursement from governmental and other third-party payers for assays and services;
- our ability to enter into agreements with commercialization partners for the sales, marketing and commercialization of our current products, assays and services, and our planned future products, assays and services;
- our ability to satisfy any applicable United States and international regulatory requirements with respect to products, assays and services;
- our ability to obtain or maintain patents or other appropriate protection for the intellectual property utilized in our current and planned products, assays and services; and
- our expected net proceeds from this offering and the use of the net proceeds from this offering.

In some cases, you can identify these statements by terms such as “anticipate,” “believe,” “could,” “estimate,” “expect,” “intend,” “may,” “plan,” “potential,” “predict,” “project,” “should,” “will,” “would” or the negative of those terms, and similar expressions that convey uncertainty of future events or outcomes. These forward-looking statements reflect our management’s beliefs and views with respect to future events and are based on estimates and assumptions as of the date of this prospectus or the applicable document incorporated herein by reference and are subject to risks and uncertainties. We discuss many of these risks in greater detail in the documents incorporated by reference herein, usually under the heading “Risk Factors.” Moreover, we operate in a very competitive and rapidly changing environment. New risks emerge from time to time. It is not possible for our management to predict all risks, nor can we assess the impact of all factors on our business or the extent to which any factor, or combination of factors, may cause actual results to differ materially from those contained in any forward-looking statements we may make. Given these uncertainties, you should not place undue reliance on these forward-looking statements. In addition, statements that “we believe” and similar statements reflect our beliefs and opinions on the relevant subject. These statements are based upon information available to us as of the date of this prospectus or the applicable document incorporated herein by reference, and while we believe such information forms a reasonable basis for such statements, such information may be limited or incomplete, and our statements should not be read to indicate that we have conducted an exhaustive inquiry into, or review of, all potentially available relevant information. These statements are inherently uncertain and you are cautioned not to unduly rely upon these statements.

In addition, past financial and/or operating performance is not necessarily a reliable indicator of future performance and you should not use our historical performance to anticipate results or future period trends. We can give no assurances that any of the events anticipated by the forward-looking statements will occur or, if any of them do, what impact they will have on our results of operations and financial condition.

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You should carefully read this prospectus, the documents that we incorporate by reference into this prospectus and the documents we reference in this prospectus and have filed as exhibits to the registration statement, of which this prospectus is a part, completely and with the understanding that our actual future results may be materially different from what we expect. We qualify all of the forward-looking statements in this prospectus and the documents incorporated by reference herein by these cautionary statements.

Except as required by law, we assume no obligation to update these forward-looking statements publicly, or to update the reasons actual results could differ materially from those anticipated in any forward-looking statements, whether as a result of new information, future events or otherwise.

This prospectus also refers to estimates and other statistical data made by independent parties and by us relating to market size and growth and other data about our industry. This data involves a number of assumptions and limitations, and you are cautioned not to give undue weight to such estimates. In addition, projections, assumptions and estimates of our future performance and the future performance of the markets in which we operate are necessarily subject to a high degree of uncertainty and risk.

## USE OF PROCEEDS

We estimate that the net proceeds of this offering will be approximately \$4.0 million, after deducting the underwriting discounts and commissions and estimated offering expenses payable by us, and excluding the proceeds, if any, from the exercise of the warrants. If the underwriters exercise their option to purchase additional shares and accompanying warrants in full, we estimate that our net proceeds from this offering will be approximately \$4.7 million, after deducting the underwriting discounts and commissions and estimated offering expenses payable by us, and excluding the proceeds, if any, from the exercise of the warrants. We currently intend to use the net proceeds of the offering for the advancement of our FORESEE trial for CNSide, working capital and general corporate purposes. We may also use a portion of the net proceeds from this offering to in-license, acquire, or invest in complementary businesses, technologies, products or assets. However, we have no current plans, commitments or obligations to do so.

We cannot currently allocate specific percentages of the net proceeds to us from this offering that we may use for the purposes specified above and our management will have broad discretion in the allocation of the net proceeds.

Pending their use, we may invest the net proceeds from this offering in short-term, investment-grade, interest-bearing securities.

## DILUTION

If you purchase our securities in this offering, you will experience dilution to the extent of the difference between the combined public offering price per share and accompanying warrants in this offering and our as adjusted net tangible book value per share immediately after this offering, assuming no value is attributed to the warrants, and such warrants are accounted for and classified as equity. Net tangible book value per share is equal to the amount of our total tangible assets, less total liabilities, divided by the number of outstanding shares of our common stock. As of March 31, 2023, our net tangible book value was approximately \$2.4 million, or approximately \$4.10 per share.

After giving effect to the sale by us of 1,176,470 shares of our common stock (assuming the exercise in full of the Pre-Funded Warrants sold in lieu of common stock in this offering) and warrants to purchase up to 2,352,940 shares of our common stock in this offering at the combined public offering price of \$4.25 per share and accompanying warrants, after deducting the underwriting discounts and commissions and estimated offering expenses payable by us, our as adjusted net tangible book value as of March 31, 2023 would have been approximately \$6.4 million, or approximately \$3.63 per share. This represents an immediate decrease in net tangible book value of \$0.47 per share to existing stockholders and an immediate dilution of \$0.62 per share to new investors purchasing shares of our common stock and accompanying warrants in this offering, attributing none of the assumed combined public offering price to the warrants offered hereby. The following table illustrates this per share dilution:

Combined public offering price per share and accompanying warrants	\$4.25
Net tangible book value per share as of March 31, 2023	\$ 4.10
Decrease in net tangible book value per share after this offering	<u>(0.47)</u>
As adjusted net tangible book value per share after this offering	3.63
Dilution per share to new investors	<u>\$0.62</u>

The discussion and table above assume (i) no exercise of the underwriters' option to purchase up to an additional 176,470 shares of common stock and accompanying warrants to purchase up to 352,940 shares of common stock and (ii) the exercise in full of the Pre-Funded Warrants sold in this offering.

The foregoing discussion and table do not take into account further dilution to new investors that could occur upon the exercise of outstanding options or warrants having a per share exercise price less than the combined public offering price per share of common stock or Pre-Funded Warrants and accompanying warrants sold in this offering. In addition, we may choose to raise additional capital due to market conditions or strategic considerations even if we believe we have sufficient funds for our current or future operating plans. To the extent that additional capital is raised through the sale of equity or convertible debt securities, the issuance of these securities could result in further dilution to our stockholders.

The table and discussion above are based on 592,857 shares of our common stock outstanding as of March 31, 2023 and exclude as of such date:

- up to 1,519 shares of common stock issuable upon the conversion of Series A Convertible Preferred Stock outstanding;
- 61,665 shares of our common stock issuable upon the exercise of stock options, with a weighted-average exercise price of \$97.95 per share;
- 26,287 shares of our common stock issuable upon the exercise of outstanding warrants, with a weighted-average exercise price of \$728.04 per share; and
- 91,215 shares of our common stock reserved for future issuance under our 2013 Amended and Restated Equity Incentive Plan.

## DESCRIPTION OF CAPITAL STOCK

As of the date of this prospectus, our amended certificate of incorporation authorizes us to issue 150,000,000 shares of common stock, par value \$0.0001 per share, and 5,000,000 shares of preferred stock, par value \$0.0001 per share.

The following description of our capital stock is not complete and is subject to and qualified in its entirety by our amended certificate of incorporation and amended and restated bylaws, which are filed as exhibits to the registration statement of which this prospectus is a part, and by the relevant provisions of the Delaware General Corporation Law.

### Common Stock

The holders of our common stock are entitled to the following rights:

*Voting Rights.* Holders of our common stock are entitled to one vote per share in the election of directors and on all other matters on which stockholders are entitled or permitted to vote. Holders of our common stock are not entitled to cumulative voting rights.

*Dividend Rights.* Subject to the terms of any then outstanding series of preferred stock, the holders of our common stock are entitled to dividends in the amounts and at times as may be declared by the board of directors out of funds legally available therefor.

*Liquidation Rights.* Upon liquidation or dissolution, holders of our common stock are entitled to share ratably in all net assets available for distribution to stockholders after we have paid, or provided for payment of, all of our debts and liabilities, and after payment of any liquidation preferences to holders of any then outstanding shares of preferred stock.

*Other Matters.* Holders of our common stock have no redemption, conversion or preemptive rights pursuant to our amended certificate of incorporation or amended and restated bylaws. There are no sinking fund provisions applicable to our common stock. The rights, preferences and privileges of the holders of our common stock are subject to the rights of the holders of shares of any series of preferred stock that we may issue in the future.

All of our outstanding shares of common stock are fully paid and nonassessable.

### Preferred Stock

#### *Series A Convertible Preferred Stock*

On August 9, 2018, we filed a Certificate of Designation of Preference, Rights and Limitations of Series A Convertible Preferred Stock, or the Certificate of Designation, with the Delaware Secretary of State creating a new series of our authorized preferred stock, par value \$0.0001 per share, designated as the “Series A Convertible Preferred Stock”. The number of shares initially constituting the Series A Convertible Preferred Stock, or Series A Preferred Stock, was set at 25,000 shares. As of March 31, 2023, 2,090 shares of Series A Preferred Stock were designated, issued and outstanding.

Each share of Series A Preferred Stock is convertible, at our option or at the option of the holder into the number of shares of our common stock determined by dividing the \$1,000 stated value per share of the Series A Preferred Stock by a conversion price of \$1,359 per share. In addition, the conversion price per share is subject to adjustment for stock dividends, distributions, subdivisions, combinations or reclassifications. Subject to limited exceptions, a holder of the Series A Preferred Stock will not have the right to convert any portion of the Series A Preferred Stock to the extent that, after giving effect to the conversion, the holder, together with its affiliates,

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would beneficially own in excess of 4.99% of the number of shares of our common stock outstanding immediately after giving effect to the issuance of shares of common stock upon conversion of the holder's shares of Series A Preferred Stock. The holder, upon notice to us, may increase or decrease the beneficial ownership limitation applicable to its shares of Series A Preferred Stock, provided that in no event shall the limitation exceed 9.99% of the number of shares of our common stock outstanding immediately after giving effect to the issuance of shares of common stock upon conversion of the holder's shares of Series A Preferred Stock.

In the event we effect certain mergers, consolidations, sales of substantially all of our assets, tender or exchange offers, reclassifications or share exchanges in which our common stock is effectively converted into or exchanged for other securities, cash or property, or we consummate a business combination in which another person acquires 50% of the outstanding shares of our common stock, then, upon any subsequent conversion of the Series A Preferred Stock, the holders of the Series A Preferred Stock will have the right to receive shares of common stock of the acquiring corporation and any additional consideration they would have been entitled to receive if they had been a holder of the number of shares of our common stock then issuable upon conversion in full of the Series A Preferred Stock.

Holders of Series A Preferred Stock shall be entitled to receive dividends (on an as-if-converted-to-common-stock basis) in the same form as dividends actually paid on shares of our common stock when, as and if such dividends are paid on shares of our common stock. Except as otherwise provided in the Certificate of Designation or as otherwise required by law, the Series A Preferred Stock has no voting rights. Upon our liquidation, dissolution or winding-up, whether voluntary or involuntary, holders of Series A Preferred Stock will be entitled to receive out of our assets, whether capital or surplus, the same amount that a holder of our common stock would receive if the Series A Preferred Stock were fully converted (disregarding for such purpose any conversion limitations thereunder) to common stock, which amounts shall be paid *pari passu* with all holders of our common stock. We are not obligated to redeem or repurchase any shares of Series A Preferred Stock. Shares of Series A Preferred Stock are not otherwise entitled to any redemption rights, or mandatory sinking fund or analogous fund provisions.

### ***Undesignated Preferred Stock***

Other than the Series A Preferred Stock, none of our remaining authorized preferred stock is designated or issued. See “-Potential Effects of Authorized but Unissued Stock” below.

### **Anti-Takeover Effects of Delaware Law and Our Certificate of Incorporation and Bylaws**

The provisions of Delaware law, our amended certificate of incorporation and our amended and restated bylaws described below may have the effect of delaying, deferring or discouraging another party from acquiring control of us.

### ***Section 203 of the Delaware General Corporation Law***

We are subject to Section 203 of the Delaware General Corporation Law, which prohibits a Delaware corporation from engaging in any business combination with any interested stockholder for a period of three years after the date that such stockholder became an interested stockholder, with the following exceptions:

- before such date, the board of directors of the corporation approved either the business combination or the transaction that resulted in the stockholder becoming an interested stockholder;
- upon completion of the transaction that resulted in the stockholder becoming an interested stockholder, the interested stockholder owned at least 85% of the voting stock of the corporation outstanding at the time the transaction began, excluding for purposes of determining the voting stock outstanding (but not the outstanding voting stock owned by the interested stockholder) those shares owned (i) by persons who are directors and also officers and (ii) employee stock plans in which employee participants do not have the right to determine confidentially whether shares held subject to the plan will be tendered in a tender or exchange offer; or

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- on or after such date, the business combination is approved by the board of directors and authorized at an annual or special meeting of the stockholders, and not by written consent, by the affirmative vote of at least 66 2 / 3 % of the outstanding voting stock that is not owned by the interested stockholder.

In general, Section 203 defines business combination to include the following:

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

In general, Section 203 defines an “interested stockholder” as an entity or person who, together with the person’s affiliates and associates, beneficially owns, or within three years before the time of determination of interested stockholder status did own, 15% or more of the outstanding voting stock of the corporation.

### ***Certificate of Incorporation and Bylaws***

Our amended certificate of incorporation and/or amended and restated bylaws provide that:

- our board of directors is classified into three classes of equal (or roughly equal) size, with all directors serving for a three-year term and the directors of only one class being elected at each annual meeting of stockholders, so that the terms of the classes of directors are “staggered”;
- the authorized number of directors can be changed only by resolution of our board of directors;
- our amended and restated bylaws may be amended or repealed by our board of directors or our stockholders;
- no action can be taken by stockholders except at an annual or special meeting of the stockholders called in accordance with our bylaws, and stockholders may not act by written consent, unless the stockholders amend the amended certificate of incorporation to provide otherwise;
- stockholders may not call special meetings of the stockholders or fill vacancies on the board;
- our board of directors will be authorized to issue, without stockholder approval, preferred stock, the rights of which will be determined at the discretion of the board of directors and that, if issued, could operate as a “poison pill” to dilute the stock ownership of a potential hostile acquirer to prevent an acquisition that our board of directors does not approve;
- our stockholders do not have cumulative voting rights, and therefore our stockholders holding a majority of the shares of common stock outstanding will be able to elect all of our directors; and
- our stockholders must comply with advance notice provisions to bring business before or nominate directors for election at a stockholder meeting.

### **Potential Effects of Authorized but Unissued Stock**

We have shares of common stock and preferred stock available for future issuance without stockholder approval. We may utilize these additional shares for a variety of corporate purposes, including future public offerings to raise additional capital, to facilitate corporate acquisitions or payment as a dividend on the capital stock.

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The existence of unissued and unreserved common stock and preferred stock may enable our board of directors to issue shares to persons friendly to current management or to issue preferred stock with terms that could render more difficult or discourage a third-party attempt to obtain control of us by means of a merger, tender offer, proxy contest or otherwise, thereby protecting the continuity of our management. In addition, the board of directors has the discretion to determine designations, rights, preferences, privileges and restrictions, including voting rights, dividend rights, conversion rights, redemption privileges and liquidation preferences of each series of preferred stock, all to the fullest extent permissible under the Delaware General Corporation Law and subject to any limitations set forth in our amended certificate of incorporation. The purpose of authorizing the board of directors to issue preferred stock and to determine the rights and preferences applicable to such preferred stock is to eliminate delays associated with a stockholder vote on specific issuances. The issuance of preferred stock, while providing desirable flexibility in connection with possible financings, acquisitions and other corporate purposes, could have the effect of making it more difficult for a third-party to acquire, or could discourage a third-party from acquiring, a majority of our outstanding voting stock.

### **Nasdaq Listing**

Our common stock is listed on The Nasdaq Capital Market under the symbol “BIOC.”

### **Transfer Agent and Registrar**

The transfer agent and registrar for our common stock being offered hereby is Continental Stock Transfer & Trust Company.

## DESCRIPTION OF THE SECURITIES WE ARE OFFERING

We are offering (i) 1,176,470 shares of our common stock or Pre-Funded Warrants and (ii) warrants to purchase up to an aggregate of 2,352,940 shares of our common stock plus up to an additional 176,470 shares of our common stock and warrants to purchase up to 352,940 shares of our common stock subject to the underwriters' option to purchase additional shares of common stock and warrants. Each share of common stock or Pre-Funded Warrant is being sold together with a warrant to purchase two shares of common stock. The shares of common stock or Pre-Funded Warrants and accompanying warrants will be issued separately. We are also registering the shares of common stock issuable from time to time upon exercise of the Pre-Funded Warrants and warrants offered hereby.

### Common Stock

The material terms and provisions of our common stock and each other class of our securities which qualifies or limits our common stock are described under the caption "Description of Capital Stock" in this prospectus.

### Pre-Funded Warrants

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

The term "pre-funded" refers to the fact that the purchase price of our common stock in this offering includes almost the entire exercise price that will be paid under the Pre-Funded Warrants, except for a nominal remaining exercise price of \$0.0001. The purpose of the Pre-Funded Warrants is to enable investors that may have restrictions on their ability to beneficially own more than 4.99% (or, upon election of the holder, 9.99%) of our outstanding common stock following the consummation of this offering the opportunity to invest capital into the company without triggering their ownership restrictions, by receiving Pre-Funded Warrants in lieu of our common stock which would result in such ownership of more than 4.99% (or 9.99%), and receive the ability to exercise their option to purchase the shares underlying the Pre-Funded Warrants at such nominal price at a later date.

*Form.* The warrants will be issued as individual warrant agreements to the investors.

*Exercisability.* The Pre-Funded Warrants offered hereby will entitle the holders thereof to purchase shares of our common stock at a nominal exercise price of \$0.0001 per share, commencing immediately on the date of issuance, until exercised in full. The Pre-Funded Warrants will be exercisable, at the option of each holder, in whole or in part by delivering to us a duly executed exercise notice and, at any time a registration statement registering the issuance of the shares of common stock underlying the Pre-Funded Warrants under the Securities Act is effective and available for the issuance of such shares, or an exemption from registration under the Securities Act is available for the issuance of such shares, by payment in full in immediately available funds for the number of shares of common stock purchased upon such exercise. If a registration statement registering the issuance of the shares of common stock underlying the Pre-Funded Warrants under the Securities Act is not effective or available and an exemption from registration under the Securities Act is not available for the issuance of such shares, the holder may, in its sole discretion, elect to exercise the Pre-Funded Warrants through a cashless exercise, in which case the holder would receive upon such exercise the net number of shares of common stock determined according to the formula set forth in the Pre-Funded Warrant. No fractional shares of common stock will be issued in connection with the exercise of a Pre-Funded Warrant. In lieu of fractional shares, we will pay the holder an amount in cash equal to the fractional amount multiplied by the exercise price.

*Exercise Limitation.* A holder will not have the right to exercise any portion of the Pre-Funded Warrant if the holder (together with its affiliates) would beneficially own in excess of 4.99% (or, upon election of the

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holder, 9.99%) of the number of shares of our common stock outstanding immediately after giving effect to the exercise, as such percentage ownership is determined in accordance with the terms of the Pre-Funded Warrants. However, any holder may increase or decrease such percentage, provided that any increase will not be effective until the 61st day after such election.

*Exercise Price.* The Pre-Funded Warrants will have an exercise price of \$0.0001 per share. The exercise price is subject to appropriate adjustment in the event of certain stock dividends and distributions, stock splits, stock combinations, reclassifications or similar events affecting our common stock and also upon any distributions of assets, including cash, stock or other property to our stockholders.

*Transferability.* Subject to applicable laws, the Pre-Funded Warrants may be offered for sale, sold, transferred or assigned without our consent.

*Exchange Listing.* There is no established trading market for the Pre-Funded Warrants and we do not expect a market to develop. In addition, we do not intend to apply for the listing of the Pre-Funded Warrants on any national securities exchange or other trading market. Without an active trading market, the liquidity of the Pre-Funded Warrants will be limited.

*Fundamental Transactions.* If a fundamental transaction occurs, then the successor entity will succeed to, and be substituted for us, and may exercise every right and power that we may exercise and will assume all of our obligations under the Pre-Funded Warrants with the same effect as if such successor entity had been named in the Pre-Funded Warrant itself. If holders of our common stock are given a choice as to the securities, cash or property to be received in a fundamental transaction, then the holder shall be given the same choice as to the consideration it receives upon any exercise of the Pre-Funded Warrant following such fundamental transaction.

*Rights as a Stockholder.* Except as otherwise provided in the Pre-Funded Warrants or by virtue of such holder's ownership of shares of our common stock, the holder of a Pre-Funded Warrant does not have the rights or privileges of a holder of our common stock, including any voting rights, until the holder exercises the Pre-Funded Warrant.

## **Warrants**

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

*Form.* The warrants will be issued as individual warrant agreements to the investors.

*Exercisability.* The warrants are exercisable at any time after their original issuance, expected to be May 26, 2023, and at any time up to the date that is five years after their original issuance. The warrants will be exercisable, at the option of each holder, in whole or in part by delivering to us a duly executed exercise notice and, at any time a registration statement registering the issuance of the shares of common stock underlying the warrants under the Securities Act is effective and available for the issuance of such shares, or an exemption from registration under the Securities Act is available for the issuance of such shares, by payment in full in immediately available funds for the number of shares of common stock purchased upon such exercise. If a registration statement registering the issuance of the shares of common stock underlying the warrants under the Securities Act is not effective or available and an exemption from registration under the Securities Act is not available for the issuance of such shares, the holder may, in its sole discretion, elect to exercise the warrant through a cashless exercise, in which case the holder would receive upon such exercise the net number of shares of common stock determined according to the formula set forth in the warrant. No fractional shares of common stock will be issued in connection with the exercise of a warrant. In lieu of fractional shares, we will pay the holder an amount in cash equal to the fractional amount multiplied by the exercise price.

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*Alternative Cashless Exercise.* On or after the earlier of (i) the thirty (30) day anniversary of the date of the underwriting agreement for this offering and (ii) the date on which the aggregate composite trading volume of our common stock as reported by Bloomberg LP beginning on the date of the underwriting agreement for this offering 15,000,000 shares, a holder of common warrants may also provide notice and elect an “alternative cashless exercise” pursuant to which they would receive an aggregate number of shares equal to the product of (x) the aggregate number of shares of common stock that would be issuable upon a cash exercise and (y) 0.50.

*Exercise Limitation.* A holder will not have the right to exercise any portion of the warrant if the holder (together with its affiliates) would beneficially own in excess of 4.99% (or, upon election of the holder, 9.99%) of the number of shares of our common stock outstanding immediately after giving effect to the exercise, as such percentage ownership is determined in accordance with the terms of the warrants. However, any holder may increase or decrease such percentage, provided that any increase will not be effective until the 61st day after such election.

*Exercise Price.* The warrants will have an exercise price of \$4.25 per share. The exercise price is subject to appropriate adjustment in the event of certain stock dividends and distributions, stock splits, stock combinations, reclassifications or similar events affecting our common stock and also upon any distributions of assets, including cash, stock or other property to our stockholders.

*Transferability.* Subject to applicable laws, the warrants may be offered for sale, sold, transferred or assigned without our consent.

*Exchange Listing.* There is no established trading market for the warrants and we do not expect a market to develop. In addition, we do not intend to apply for the listing of the warrants on any national securities exchange or other trading market. Without an active trading market, the liquidity of the warrants will be limited.

*Fundamental Transactions.* If a fundamental transaction occurs, then the successor entity will succeed to, and be substituted for us, and may exercise every right and power that we may exercise and will assume all of our obligations under the warrants with the same effect as if such successor entity had been named in the warrant itself. If holders of our common stock are given a choice as to the securities, cash or property to be received in a fundamental transaction, then the holder shall be given the same choice as to the consideration it receives upon any exercise of the warrant following such fundamental transaction. If a fundamental transaction occurs that is approved by our board of directors, the holder of the warrant will also have the option to require us or the successor entity to purchase the warrant based on the Black-Scholes value of the warrant.

*Rights as a Stockholder.* Except as otherwise provided in the warrants or by virtue of such holder’s ownership of shares of our common stock, the holder of a warrant does not have the rights or privileges of a holder of our common stock, including any voting rights, until the holder exercises the warrant.

## UNDERWRITING

We entered into an underwriting agreement with EF Hutton, division of Benchmark Investments, LLC, or EF Hutton, as representative of the several underwriters relating to this offering. Subject to the terms and conditions of the underwriting agreement, we have agreed to sell to the underwriters and each of the underwriters has agreed to purchase, severally and not jointly, the number of shares, Pre-Funded warrants and common warrants set forth opposite its name in the following table:

	<u>Number of Shares of Common Stock</u>	<u>Number of Pre-Funded Warrants</u>	<u>Number of Common Warrants</u>
EF Hutton, division of Benchmark Investments, LLC	675,389	232,500	1,823,528
Brookline Capital Markets, a division of Arcadia Securities, LLC	196,081	67,500	529,412
Westpark Capital, Inc.	5,000	—	—
Total	876,470	300,000	2,352,940

The underwriters have agreed to purchase all of the shares of common stock and Pre-Funded warrants and accompanying common warrants offered by us. The obligations of the underwriters may be terminated upon the occurrence of certain events specified in the underwriting agreement. Furthermore, pursuant to the underwriting agreement, the obligations of the underwriters are subject to customary conditions, representations and warranties contained in the underwriting agreement, such as receipt by the underwriters of officers' certificates and legal opinions.

We have granted the underwriters an option for a period of 45 days from the date of this prospectus to purchase up to an additional 176,470 shares of common stock and accompanying warrants to purchase up to 352,940 shares of common stock at the public offering price, less the underwriting discounts.

The underwriters have advised us that they propose initially to offer the shares of common stock and Pre-Funded warrants and accompanying common warrants to purchase shares of common stock to the public at the public offering price set forth on the cover page of this prospectus and to dealers at a price less a concession not in excess of \$0.14875 per share and accompanying common warrants or \$0.14875 per Pre-Funded warrant and accompanying common warrants, based on the combined public offering price per share and accompanying common warrants or Pre-Funded warrant and accompanying common warrants. After the shares of common stock and/or Pre-Funded warrants and accompanying common warrants are released for sale to the public, the underwriters may change the offering price, the concession, and other selling terms at various times.

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

The underwriters are offering the securities in this offering subject to prior sale, when, as and if issued to and accepted by them subject to approval of legal matters by their counsel and other conditions specified in the underwriting agreement. The underwriters reserve the right to withdraw, cancel or modify orders to the public, and to reject orders in whole or in part.

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### Discounts, Commissions and Reimbursement

The following table provides information regarding the amount of the discounts and commissions to be paid to the underwriters by us, assuming both no exercise and full exercise of the underwriters' option to purchase additional shares of common stock and accompanying warrants.

	<u>Per Share and Accompanying Common Warrants</u>	<u>Per Pre-Funded Warrant and Accompanying Common Warrants</u>	<u>Total (No Exercise)</u>	<u>Total (Full Exercise)</u>
Public offering price	\$ 4.25	\$ 4.2499	\$4,999,967.50	\$5,749,965.00
Underwriting discounts and commissions <sup>(1)</sup>	\$ 0.2975	\$ 0.2975	\$ 349,999.83	\$ 402,499.65
Proceeds to us, before expenses	\$ 3.9525	\$ 3.9524	\$4,649,967.67	\$5,347,465.35

(1) We have agreed to pay the underwriters a commission of 7% of the gross proceeds of this offering.

We estimate that our total expenses of the offering, excluding the estimated underwriting discounts and commissions, will be approximately \$660,000, which includes the fees and expenses for which we have agreed to reimburse the underwriters, provided that any such fees and expenses will not exceed an aggregate of \$75,000.

### Lock-Up Agreements

We, our officers and directors have agreed to a 90-day "lock-up" with respect to shares of our common stock and other of our securities that they beneficially own, including securities that are convertible into shares of common stock and securities that are exchangeable or exercisable for shares of common stock. This means that, subject to certain exceptions, for a period of 90 days following the date of this prospectus, we and such persons may not offer, sell, pledge or otherwise dispose of these securities without the prior written consent of EF Hutton.

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

A prospectus in electronic format may be made available on the websites maintained by the underwriters. The prospectus in electronic format will be identical to the paper version of such prospectus. The underwriters may agree to allocate a number of shares to the underwriters and selling group members for sale to their online brokerage account holders. Internet distributions will be allocated by the underwriters and selling group members that will make internet distributions on the same basis as other allocations. Other than the prospectus in electronic format, the information on these websites is not part of, nor incorporated by reference into, this prospectus or the registration statement of which this prospectus forms a part, has not been approved or endorsed by us, and should not be relied upon by investors.

### Listing

Our common stock is listed on The Nasdaq Capital Market under the symbol "BIOC". We do not intend to apply to list the Pre-Funded warrants or common warrants on any national securities exchange or other nationally recognized trading system.

### Stabilization

In connection with this offering, the underwriters may engage in stabilizing transactions. Stabilizing transactions permit bids to purchase shares of common stock so long as the stabilizing bids do not exceed a specified maximum, and are engaged in for the purpose of preventing or retarding a decline in the market price of the common stock while the offering is in progress.

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### **Passive Market Making**

In connection with this offering, the underwriters and selling group members may engage in passive market making transactions in our securities on the Nasdaq Stock Market in accordance with Rule 103 of Regulation M under the Exchange Act, during a period before the commencement of offers or sales of the shares and extending through the completion of the distribution. A passive market maker must display its bid at a price not in excess of the highest independent bid of that security. However, if all independent bids are lowered below the passive market maker's bid, then that bid must then be lowered when specified purchase limits are exceeded.

### **Certain Relationships**

The underwriters and their affiliates have provided, or may in the future, from time to time, engage in transactions with and perform services for us in the ordinary course of their business for which they may receive customary fees and reimbursement of expenses. In the ordinary course of their various business activities, the underwriters and their affiliates may make or hold a broad array of investments and actively trade debt and equity securities (or related derivative securities) and financial instruments (including bank loans) for their own account and for the accounts of their customers, and such investment and securities activities may involve securities and/or instruments of our Company. The underwriters and their affiliates may also make investment recommendations and/or publish or express independent research views in respect of such securities or instruments and may at any time hold, or recommend to clients that they acquire, long and/or short positions in such securities and instruments.

### **Selling Restrictions**

This prospectus does not constitute an offer to sell to, or a solicitation of an offer to buy from, anyone in any country or jurisdiction (a) in which such an offer or solicitation is not authorized; (b) in which any person making such offer or solicitation is not qualified to do so; or (c) in which any such offer or solicitation would otherwise be unlawful. No action has been taken that would, or is intended to, permit a public offer of the shares of common stock or possession or distribution of this prospectus or any other offering or publicity material relating to the shares in any country or jurisdiction (other than the United States) where any such action for that purpose is required. Accordingly, the underwriters have undertaken that they will not, directly or indirectly, offer or sell any shares or have in their possession, distribute or publish any prospectus, form of application, advertisement or other document or information in any country or jurisdiction except under circumstances that will, to the best of its knowledge and belief, result in compliance with any applicable laws and regulations and all offers and sales of shares by it will be made on the same terms.

**Canada.** The common stock may be sold 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 common stock must be made in accordance with an exemption from, or in a transaction not subject to, the prospectus requirements of applicable securities laws.

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

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.

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**United Kingdom.** This prospectus and any other material in relation to the shares of common stock described herein is only being distributed to, and is only directed at, persons in the United Kingdom who are “qualified investors” or otherwise in circumstances which do not require publication by the Company of a prospectus pursuant to section 85(1) of the UK Financial Services and Markets Act 2000. Any investment or investment activity to which this prospectus relates is available only to, and will be engaged in only with, investment professionals falling within Article 19(5), or high net worth entities falling within Article 49(2), of the UK Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 or other persons to whom such investment or investment activity may lawfully be made available (together, “relevant persons”). Persons who are not relevant persons should not take any action on the basis of this prospectus and should not act or rely on it.

**Switzerland.** The securities will not be offered, directly or indirectly, to the public in Switzerland and this prospectus does not constitute a public offering prospectus as that term is understood pursuant to article 652a or 1156 of the Swiss Federal Code of Obligations.

**European Economic Area.** In relation to each Member State of the European Economic Area that has implemented the European Prospectus Directive (each, a “Relevant Member State”), an offer of our shares may not be made to the public in a Relevant Member State other than:

- to any legal entity which is a qualified investor, as defined in the European Prospectus Directive;
- to fewer than 150 natural or legal persons (other than qualified investors as defined in the European Prospectus Directive), subject to obtaining the prior consent of the representatives for any such offer; or
- in any other circumstances falling within Article 3(2) of the European Prospectus Directive;

provided that no such offer of our shares shall require us or the underwriters to publish a prospectus pursuant to Article 3 of the European Prospectus Directive or supplement prospectus pursuant to Article 16 of the European Prospectus Directive.

For the purposes of this description, the expression an “offer to the public” in relation to the securities in any Relevant Member State means the communication in any form and by any means of sufficient information on the terms of the offer and the securities to be offered so as to enable an investor to decide to purchase or subscribe for the securities, as the expression may be varied in that Relevant Member State by any measure implementing the European Prospectus Directive in that member state, and the expression “European Prospectus Directive” means Directive 2003/71/EC (and amendments hereto, including the 2010 PD Amending Directive, to the extent implemented in the Relevant Member State) and includes any relevant implementing measure in each Relevant Member State. The expression 2010 PD Amending Directive means Directive 2010/73/EU.

We have not authorized and do not authorize the making of any offer of securities through any financial intermediary on our behalf, other than offers made by the underwriters and their affiliates, with a view to the final placement of the securities as contemplated in this document. Accordingly, no purchaser of the shares, other than the underwriters, is authorized to make any further offer of shares on our behalf or on behalf of the underwriters.

## LEGAL MATTERS

The validity of the shares of common stock and warrants being offered by this prospectus will be passed upon for us by Cooley LLP, San Diego, California. The underwriters are being represented by Lowenstein Sandler LLP, New York, New York.

## EXPERTS

The financial statements of Biocept, Inc. as of December 31, 2022 and for the year then ended incorporated in this Prospectus by reference from the Biocept, Inc. Annual Report on Form 10-K for the year ended December 31, 2022 have been audited by RSM US LLP, an independent registered public accounting firm, as stated in their report thereon (which report expresses an unqualified opinion and includes an explanatory paragraph relating to Going Concern), incorporated herein by reference, and have been incorporated in this Prospectus and Registration Statement in reliance upon such report and upon the authority of such firm as experts in accounting and auditing.

Mayer Hoffman McCann P.C., our former independent registered public accounting firm, has audited our balance sheet as of December 31, 2021, and the related statements of operations and comprehensive loss, changes in stockholders' equity and cash flows for the year ended December 31, 2021, as set forth in their report, which report expresses an unqualified opinion. We have incorporated by reference such financial statements into this prospectus and into this registration statement in reliance on the reports of Mayer Hoffman McCann P.C. given on their authority as experts in accounting and auditing.

## WHERE YOU CAN FIND MORE INFORMATION

We have filed with the SEC a registration statement on Form S-1 under the Securities Act with respect to the securities being offered by this prospectus. This prospectus does not contain all of the information in the registration statement and its exhibits. For further information with respect to us and the securities offered by this prospectus, we refer you to the registration statement and its exhibits. Statements contained in this prospectus as to the contents of any contract or any other document referred to are not necessarily complete, and in each instance, we refer you to the copy of the contract or other document filed as an exhibit to the registration statement. Each of these statements is qualified in all respects by this reference.

You can read our SEC filings, including the registration statement, over the Internet at the SEC's website at [www.sec.gov](http://www.sec.gov). You may also request a copy of these filings, at no cost, by writing us at 9955 Mesa Rim Road, San Diego, California 92121 or telephoning us at (858) 320-8200.

We are subject to the information and periodic reporting requirements of the Exchange Act, and we file periodic reports, proxy statements and other information with the SEC. These periodic reports, proxy statements and other information are available for inspection and copying at the public reference room and website of the SEC referred to above. We maintain a website at <http://www.biocept.com>. You may access our annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K and amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) of the Exchange Act with the SEC free of charge at our website as soon as reasonably practicable after such material is electronically filed with, or furnished to, the SEC. The information contained in, or that can be accessed through, our website is not incorporated by reference in, and is not part of, this prospectus.

## INCORPORATION OF CERTAIN INFORMATION BY REFERENCE

The SEC allows us to “incorporate by reference” information from other documents that we file with it, which means that we can disclose important information to you by referring you to those documents. The information incorporated by reference is considered to be part of this prospectus. Information in this prospectus supersedes information incorporated by reference that we filed with the SEC prior to the date of this prospectus.

We incorporate by reference into this prospectus and the registration statement of which this prospectus is a part the information or documents listed below (except in each case the information contained in such document to the extent “furnished” and not “filed”) that we have filed with the SEC (Commission File No. 001-36284):

- our annual report on Form 10-K for the year ended December 31, 2022, filed with the SEC on [April 17, 2023](#);
- Amendment No. 1 to our quarterly report on Form 10-Q/A for the quarter ended September 30, 2022, filed with the SEC on [April 17, 2023](#);
- our quarterly report on Form 10-Q for the quarter ended March 31, 2023, filed with the SEC on [May 11, 2023](#);
- our definitive proxy statement on Schedule 14A, filed with the SEC on [April 20, 2023](#);
- Our revised definitive proxy statement on Schedule 14A, filed with the SEC on [April 21, 2023](#);
- our current reports on Form 8-K, filed with the SEC on [January 6, 2023](#), [March 20, 2023](#), [April 10, 2023](#), [April 17, 2023](#), [May 15, 2023](#) and [May 16, 2023](#), and
- the description of our common stock contained in our registration statement on Form 8-A, filed with the SEC on [January 28, 2014](#), including all amendments and reports filed for the purpose of updating such description.

In addition, all documents subsequently filed by us pursuant to Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act, prior to the termination of the offering (excluding any information furnished rather than filed) shall be deemed to be incorporated by reference into this prospectus.

We will provide to each person, including any beneficial owners, to whom a prospectus is delivered, a copy of any or all of the reports or documents that have been incorporated by reference in the prospectus contained in the registration statement but not delivered with the prospectus. We will provide these reports or documents upon written or oral request at no cost to the requester. You should direct any written requests for documents to:

Biocept, Inc.  
9955 Mesa Rim Road  
San Diego, California 92121  
Telephone: (858) 320-8200

In accordance with Rule 412 of the Securities Act, any statement contained in a document incorporated by reference herein shall be deemed modified or superseded to the extent that a statement contained herein or in any other subsequently filed document which also is or is deemed to be incorporated by reference herein modifies or supersedes such statement.



**876,470 Shares of Common Stock**

**Pre-Funded Warrants to Purchase up to 300,000 Shares of Common Stock**

**Warrants to Purchase up to 2,352,940 Shares of Common Stock**

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**PROSPECTUS**

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*Sole Book-Running Manager*

**EF Hutton**

division of Benchmark Investments, LLC

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*Lead Manager*

**Brookline Capital Markets**

a division of Arcadia Securities, LLC

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