

PROSPECTUS



7,027,043 SHARES OF COMMON STOCK ISSUABLE UPON EXERCISE OF OUTSTANDING WARRANTS

We are not selling any shares of our common stock under this prospectus and will not receive any proceeds from the sale of shares by the selling stockholders. This prospectus relates to the resale of up to 7,027,043 shares of our common stock, par value \$0.00001 per share, (the “Common Stock”) including:

- 5,151,098 shares of Common Stock issuable upon the exercise of outstanding common warrants (the “Common Warrants”) to purchase Common Stock; and
- 1,875,945 shares of Common Stock issuable upon the exercise of outstanding pre-funded warrants (the “Pre-Funded Warrants,” and together with the Common Warrants, the “Warrants”) to purchase Common Stock.

The selling stockholders will bear all commissions and discounts, if any, attributable to the sale of the shares. We will bear all costs, expenses and fees in connection with the registration of the shares.

The selling stockholders may sell the shares of our Common Stock offered by this prospectus from time to time on terms to be determined at the time of sale through ordinary brokerage transactions or through any other means described in this prospectus under “Plan of Distribution”. The prices at which the selling stockholder may sell the shares will be determined by the prevailing market price for the shares or in negotiated transactions.

Our Common Stock is listed on the Nasdaq Capital Market under the symbol “CLRB”. On November 22, 2022, the last reported sale price of our common stock on the Nasdaq Capital Market was \$1.90 per share.

Investing in our securities involves a high degree of risk. See “Risk Factors” on page 6 of this prospectus for more information.

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

The date of this prospectus is December 2, 2022.

TABLE OF CONTENTS

	Page
About this Prospectus	1
Prospectus Summary	2
Risk Factors	6
Forward-Looking Statements	7
Use of Proceeds	8
Selling Stockholders	9
Plan of Distribution	11
Where You Can Find More Information	12
Legal Matters	13
Experts	13
Incorporation of Documents by Reference	13

ABOUT THIS PROSPECTUS

You should rely only on the information we have provided or incorporated by reference into this prospectus and any related free writing prospectus. We have not authorized anyone to provide you with information different from that contained in this prospectus or any related free writing prospectus. No dealer, salesperson or other person is authorized to give any information or to represent anything not contained in this prospectus or any related free writing prospectus. You must not rely on any unauthorized information or representation. This prospectus is an offer to sell only the common stock offered hereby, but only under circumstances and in jurisdictions where it is lawful to do so. You should assume that the information in this prospectus or any related free writing prospectus is accurate only as of the date on the front of the document and that any information we have incorporated by reference is accurate only as of the date of the document incorporated by reference, regardless of the time of delivery of this prospectus or any sale of a security.

We may authorize one or more free writing prospectuses to be provided to you that may contain material information relating to that offering. We may also use any related free writing prospectus to add, update or change any of the information contained in this prospectus or in documents we have incorporated by reference. This prospectus, together with any related free writing prospectuses and the documents incorporated by reference into this prospectus, includes all material information relating to this offering. Please carefully read both this prospectus together with the additional information described below under “Incorporation of Documents by Reference”.

Unless otherwise stated or unless the context otherwise requires, all references to “we”, “us”, “our”, “our company” or “the Company” in this prospectus refer

PROSPECTUS SUMMARY

This summary highlights selected information contained elsewhere in this prospectus or incorporated by reference in this prospectus, and does not contain all of the information that you need to consider in making your investment decision. You should carefully read the entire prospectus and any related free writing prospectus, including the risks of investing in our common stock discussed under the heading "Risk Factors" contained in this prospectus and any related free writing prospectus, and under similar headings in the other documents that are incorporated by reference into this prospectus. You should also carefully read the information incorporated by reference into this prospectus, including our financial statements, and the exhibits to the registration statement of which this prospectus forms a part.

Overview

We are a late-stage clinical biopharmaceutical company focused on the discovery, development and commercialization of drugs for the treatment of cancer. Our core objective is to leverage our proprietary phospholipid drug conjugate™ (PDC™) delivery platform to develop PDCs that are designed to specifically target cancer cells and deliver improved efficacy and better safety as a result of fewer off-target effects. Our PDC platform possesses the potential for the discovery and development of the next generation of cancer-targeting treatments, and we plan to develop PDCs both independently and through research and development collaborations.

Key Risks and Uncertainties

We are subject to numerous risks and uncertainties, including the following:

- We will require additional capital in order to continue our operations and may have difficulty raising additional capital.
- We rely on a collaborative outsourced business model, and disruptions with our third-party collaborators, including potential disruptions at our sole source supplier of iopofosine, Centre for Probe Development and Commercialization may impede our ability to gain FDA approval and delay or impair commercialization of any products.
- We cannot assure the successful development and commercialization of our compounds in development.
- Failure to complete the development of our technologies, obtain government approvals, including required FDA approvals, or comply with ongoing governmental regulations could prevent, delay or limit introduction or sale of proposed products and result in failure to achieve revenues or maintain our ongoing business.
- The FDA has granted rare pediatric disease designation, RPDD, to iopofosine for treatment of neuroblastoma, rhabdomyosarcoma, Ewing's sarcoma and osteosarcoma; however, we may not be able to realize any value from such designation.
- Clinical studies involve a lengthy and expensive process with an uncertain outcome, and results of earlier studies may not be predictive of future study results.
- We may be required to suspend or discontinue clinical studies due to unexpected side effects or other safety risks that could preclude approval of our product candidates.
- Controls we or our third-party collaborators have in place to ensure compliance with all applicable laws and regulations may not be effective.

- We expect to rely on our patents as well as specialized regulatory designations such as orphan drug classification for our product candidates, but regulatory drug designations may not confer marketing exclusivity or other expected commercial benefits.
- Fast track designation by the FDA may not actually lead to a faster development or regulatory review or approval process and does not assure FDA approval of our product candidates.
- We rely on a small number of key personnel who may terminate their employment with us at any time, and our success will depend on our ability to hire additional qualified personnel.
- Acceptance of our products in the marketplace is uncertain and failure to achieve market acceptance will prevent or delay our ability to generate revenues.
- Regulatory approval for any approved product is limited by the FDA, the European Commission and other regulators to those specific indications and conditions for which clinical safety and efficacy have been demonstrated, and we may incur significant liability if it is determined that we are promoting the "off-label" use of any of our future product candidates if approved.
- Any product for which we have obtained regulatory approval, or for which we obtain approval in the future, is subject to, or will be subject to, extensive ongoing regulatory requirements by the FDA, EMA and other comparable regulatory authorities, and if we fail to comply with regulatory requirements or if we experience unanticipated problems with our products, we may be subject to penalties, we may be unable to generate revenue from the sale of such products, our potential for generating positive cash flow will be diminished, and the capital necessary to fund our operations will be increased.
- The COVID-19 pandemic as well as conflicts, military actions, terrorist attacks, natural disasters, public health crises, cyber-attacks and general instability could materially adversely affect our business.
- Failure to meet Nasdaq's continued listing requirements could result in the delisting of our common stock, negatively impact the price of our common stock and negatively impact our ability to raise additional capital.
- Our stock price has experienced price fluctuations.
- We have not paid dividends in the past and do not expect to pay dividends for the foreseeable future. Any return on investment may be limited to the value of our common stock.
- You may experience future dilution as a result of future equity offerings.

Corporate Information

Our principal executive offices are located at 100 Campus Drive, Florham Park, New Jersey 07932 and the telephone number of our principal executive offices is (608) 441-8120. We maintain a website at www.collectar.com. The information included or referred to on, or accessible through, our website does not constitute part of, and is not incorporated by reference into, this prospectus.

Description of the Private Placements

On October 20, 2022, we entered into a Securities Purchase Agreement (the “Hybrid Offering Purchase Agreement”) with the investor signatories thereto, pursuant to which we issued and sold: (i) in a registered offering directly to the Purchasers (as defined below) on October 25, 2022, an aggregate of 3,275,153 shares of our common stock, par value \$0.00001 per share at an offering price of \$2.085 per share and (ii) in a concurrent private placement (the “Concurrent Private Placement”) Common Warrants to purchase up to an aggregate of 3,275,153 shares of Common Stock.

3

In a separate concurrent private placement (the “Separate Concurrent Private Placement” and, together with the Concurrent Private Placement, the “Private Offerings”), we entered into a Private Placement Securities Purchase Agreement (the “PIPE Purchase Agreement” and together with the Hybrid Offering Purchase Agreement, the “Purchase Agreements”), with the investor signatories thereto, pursuant to which we issued to the Purchasers Pre-Funded Warrants to purchase up to an aggregate of 1,875,945 shares of Common Stock and Common Warrants to purchase up to an aggregate of 1,875,945 shares of Common Stock. The investors who are signatories to the Purchase Agreements are the selling stockholders identified in their prospectus under the caption “selling stockholders” (the “Purchasers”).

Gross proceeds from the Private Offerings were approximately \$3.9 million before deducting the placement agent fee and related offering expenses. The Registered Shares were offered by us pursuant to a registration statement on Form S-3 (File No. 333-244362), which was declared effective by the Securities and Exchange Commission (the “SEC”) on August 20, 2020 (the “Registration Statement”). The offering and sale of the Common Warrants, the Pre-Funded Warrants and the shares of Common Stock issuable upon the exercise of the Common Warrants and the Pre-Funded Warrants (the “Warrant Shares”) was made pursuant to an exemption from the registration requirements of the Securities Act of 1933, as amended (the “Securities Act”) provided in Section 4(a)(2) of the Securities Act and Rule 506(b) promulgated thereunder.

The Common Warrants were immediately exercisable at an exercise price of \$1.96 per share and expire on the fifth anniversary of their issuance. The purchase price of each Pre-Funded Warrant was \$2.08499 and the Pre-Funded Warrants were immediately exercisable at an exercise price of \$0.00001 per share and will not expire until exercised in full.

We filed the registration statement on Form S-1, of which this prospectus is a part, to fulfill our contractual obligations under the Purchase Agreements to provide for the resale by the Purchasers of up to 7,027,043 shares of Common Stock. We agreed to file a registration statement with respect to such Warrant Shares within 30 days following the date of issuance of the Warrants and to use reasonable best efforts to keep such registration statement effective at all times until (a) the warrant shares are sold under such registration statement or pursuant to Rule 144 under the Securities Act, (b) the warrant shares may be sold without volume or manner-of-sale restrictions pursuant to Rule 144 under the Securities Act.

4

The Offering

Shares of common stock offered by us:	None
Shares of common stock offered by the selling stockholders:	7,027,043 shares
Shares of common stock outstanding before this offering, assuming no exercise of the Warrants:	9,385,272 shares
Shares of common stock outstanding after completion of this offering, assuming full exercise of the Warrants:	16,412,315 shares
Use of Proceeds:	We will not receive any proceeds from the resale of the shares of common stock by the selling stockholders.
Risk Factors:	See “Risk Factors” on page 6 and the other information included in this prospectus for a discussion of factors you should carefully consider before deciding whether to purchase our securities.
Nasdaq symbol for our common stock:	CLRB

The number of shares of our common stock outstanding before and after this offering is based on 9,385,272 shares of common stock outstanding as of October 31, 2022 and excludes, as of that date:

- an aggregate of 654,263 shares of common stock issuable upon the exercise of outstanding stock options issued to employees, directors and consultants;
- an aggregate of 111,111 shares of common stock issuable upon the conversion of outstanding shares of Series D preferred stock; and
- an aggregate of 1,563,381 additional shares of common stock reserved for issuance under outstanding warrants having expiration dates between July 2023 and June 2025, and exercise prices ranging from \$12.075 to \$178.00 per share.

RISK FACTORS

An investment in our securities involves a high degree of risk. Prior to making a decision about investing in our securities, prospective investors should consider carefully all of the information included and incorporated by reference or deemed to be incorporated by reference in this prospectus, including the risk factors incorporated by reference herein from our Annual Report on Form 10-K for the fiscal year ended December 31, 2021, as updated by annual, quarterly and other reports and documents we file with the SEC after the date of this prospectus and that are incorporated by reference herein. Each of these risk factors could have a material adverse effect on our business, results of operations, financial position or cash flows, which may result in the loss of all or part of your investment. For more information, see “Where You Can Find More Information” and “Incorporation of Certain Information by Reference.”

6

FORWARD-LOOKING STATEMENTS

This prospectus, including the documents that we incorporate by reference, contains forward-looking statements within the meaning of Section 27A of the Securities Act, and Section 21E of the Securities Exchange Act of 1934, as amended (the “Exchange Act”). Examples of our forward-looking statements include:

- our current views with respect to our business strategy, business plan and research and development activities;
- the future impacts of the COVID-19 pandemic on our business, employees, operating results, ability to recruit patients for clinical studies, ability to obtain additional funding, product development programs, research and development programs, suppliers and third-party manufacturers;
- the progress of our product development programs, including clinical testing and the timing of commencement and results thereof;
- our projected operating results, including research and development expenses;
- our ability to continue development plans for iopofosine I 131 (also known as CLR 131), CLR 1900 series, CLR 2000 series and CLR 12120;
- our ability to continue development plans for our Phospholipid Drug Conjugates (PDC)TM;
- our ability to maintain orphan drug designation in the U.S. for iopofosine as a therapeutic for the treatment of multiple myeloma, neuroblastoma, osteosarcoma, rhabdomyosarcoma, Ewing’s sarcoma and lymphoplasmacytic lymphoma, and the expected benefits of orphan drug status;
- any disruptions at our sole supplier of iopofosine;
- our ability to pursue strategic alternatives;
- our ability to advance our technologies into product candidates;
- our enhancement and consumption of current resources along with ability to obtain additional funding;
- our current view regarding general economic and market conditions, including our competitive strengths;
- uncertainty and economic instability resulting from conflicts, military actions, terrorist attacks, natural disasters, public health crises, including the occurrence of a contagious disease or illness, such as the COVID-19 pandemic, cyber-attacks and general instability;
- the future impacts of legislative and regulatory developments in the United States on the pricing and reimbursement of our product candidates;
- our ability to meet the continued listing standards of Nasdaq;
- assumptions underlying any of the foregoing; and
- any other statements that address events or developments that we intend or believe will or may occur in the future.

In some cases, you can identify forward-looking statements by terminology such as “‘expects”, “anticipates”, “intends”, “estimates”, “plans”, “believes”, “seeks”, “may”, “should”, “could” or the negative of such terms or other similar expressions. Accordingly, these statements involve estimates, assumptions and uncertainties that could cause actual results to differ materially from those expressed in them. Forward-looking statements also involve risks and uncertainties, many of which are beyond our control. Any forward-looking statements are qualified in their entirety by reference to the factors discussed throughout this prospectus.

You should read this prospectus and the documents that we reference herein and therein and have filed as exhibits to the registration statement, of which this prospectus is part, completely and with the understanding that our actual future results may be materially different from what we expect. You should assume that the information appearing in this prospectus is accurate only as of the date on the front cover of this prospectus or such prospectus. Because the risk factors referred to above could cause actual results or outcomes to differ materially from those expressed in any forward-looking statements made by us or on our behalf, you should not place undue reliance on any forward-looking statements. Further, any forward-looking statement speaks only as of the date on which it is made, and we undertake no obligation to update any forward-looking statement to reflect events or circumstances after the date on which the statement is made or to reflect the occurrence of unanticipated events. New factors emerge from time to time, and it is not possible for us to predict which factors will arise. In addition, we cannot assess the impact of each factor 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 qualify all of the information presented in this prospectus and any accompanying prospectus supplement, and particularly our forward-looking statements, by these cautionary statements.

7

USE OF PROCEEDS

All proceeds from the resale of the Warrant Shares offered by this prospectus will belong to the selling stockholders. We will not receive any proceeds from the sale or other disposition by the selling stockholders of the shares of our common stock covered by this prospectus. However, we will receive proceeds upon any cash exercise of the Warrants, the underlying shares of which are offered by this prospectus. If the Warrants are all exercised for cash, we will receive gross proceeds of \$10.1 million. We intend to use any proceeds from any such exercise for funding clinical studies, research and development, working capital and general corporate purposes. There is no assurance, however, that the Warrants will ever be exercised.

8

SELLING STOCKHOLDERS

The common stock being offered by the selling stockholders are the Warrant Shares. For additional information regarding the issuances of the Warrant Shares, see “Description of the Private Placements” in the summary to this prospectus. We are registering the shares of common stock in order to permit the selling stockholders to offer the Warrant Shares for resale from time to time. Except for the ownership of our common stock, warrants and pre-funded warrants, the selling stockholders have not had any material relationship with us within the past three years.

The table below lists the selling stockholders and other information regarding the beneficial ownership of the shares of Common Stock by each of the selling stockholders. The second column lists the number of shares of common stock beneficially owned by each selling stockholder, based on its ownership of the shares of common stock, warrants and pre-funded warrants, as of November 22, 2022, assuming exercise of the warrants and pre-funded warrants held by the selling stockholders on that date. The third column lists the shares of common stock being offered by this prospectus by the selling stockholders.

In accordance with the terms of a registration rights agreement with the selling stockholders, this prospectus generally covers the resale of the maximum number of shares of common stock issuable upon exercise of the Warrants, determined as if the Warrants were exercised in full as of the trading day immediately preceding the date this registration statement was initially filed with the SEC, each as of the trading day immediately preceding the applicable date of determination and all subject to adjustment as provided in the registration right agreement, without regard to any limitations on the exercise of the Warrants. The fourth column assumes the sale of all of the shares offered by the selling stockholders pursuant to this prospectus.

Under the terms of all of the warrants and the pre-funded warrants, a selling stockholder may not exercise the warrants or pre-funded to the extent such exercise would cause such selling stockholder, together with its affiliates and attribution parties, to beneficially own a number of shares of common stock which would exceed the applicable 4.99% (or at the election of the selling stockholder, 9.99%) of our then outstanding common stock following such conversion, excluding for purposes of such determination shares of common stock issuable upon conversion of the preferred stock which have not been converted. The number of shares in the second column does not reflect this limitation. The selling stockholder may sell all, some or none of their shares in this offering. See “Plan of Distribution”.

Selling Stockholder	Number of Shares of Common Stock Beneficially Owned Prior to Offering(1)	Maximum Number of Shares of Common Stock to be Sold Pursuant to this Prospectus	Number of Shares of Common Stock Beneficially Owned After Offering	Percentage of Shares Beneficially Owned After Offering(2)
Entities affiliated with AIGH Capital Management LLC(3)	2,645,508(14)	1,640,614(25)	1,004,894	6.12%
AuGC BioFund LP(4)	143,884(15)	71,942	71,942	*
Boothbay Absolute Return Strategies LP (5)	68,146(16)	68,146	0	*
Boothbay Diversified Alpha Master Fund LP(6)	34,731(17)	34,731	0	*
CVI Investments, Inc.(7)	702,438(18)	300,000	402,438	2.45%
District 2 Capital Fund LP(8)	373,708(19)	239,808	133,900	*
Laurence W. Lytton(9)	1,419,394(20)	603,997	815,397	4.97%
Lincoln Park Capital Fund, LLC(10)	1,977,343(21)	911,294	1,066,049	6.50%
Lytton-Kambara Foundation(11)	710,470(22)	710,470	0	*
Investor Company ITF Rosalind Master Fund L.P.(12)	2,874,610(23)	2,158,272	716,338	4.36%
The Hewlett Fund LP (13)	575,538(24)	287,769	287,769	1.75%

*Less than 1%

- (1) “Beneficial ownership” is a term broadly defined in Rule 13d-3 under the Exchange Act, and includes more than the typical form of stock ownership, that is, stock held in a person’s name. The term also includes what is referred to as “indirect ownership,” meaning ownership of shares as to which a person has or shares investment power. For purposes of this column, a person or group of persons is deemed to have “beneficial ownership” of any shares that such person or group of persons has the right to acquire within 60 days after November 22, 2022, including through the exercise of a warrant or the conversion of a security.
- (2) Based on 16,412,315 shares of Common Stock outstanding, which assumes the issuance of all the Warrant Shares upon exercise of the Warrants and does not take into account the date of, or any limitations on, the exercise of the Warrants.
- (3) Mr. Orin Hirschman is the managing member of AIGH Capital Management, LLC, a Maryland limited liability company (“AIGH CM”), who is an advisor with respect to the securities held by AIGH Investment Partners, L.P. (“AIGH LP”). Mr. Hirschman has voting and investment control over the securities indirectly held by AIGH CM, directly held by AIGH LP and directly held by Mr. Hirschman and his family. The address for AIGH CM, AIGH LP and Mr. Hirschman is 6006 Berkeley Avenue, Baltimore, Maryland 21209.

Mr. Orin Hirschman is the managing member of AIGH Capital Management, LLC, a Maryland limited liability company (“AIGH CM”), who is a sub-advisor with respect to the securities held by WVP Emerging Manager Onshore Fund, LLC - AIGH Series. Mr. Hirschman has voting and investment control over the securities indirectly held by AIGH CM and directly held by Mr. Hirschman and his family directly. The address for AIGH CM and Mr. Hirschman is 6006 Berkeley Avenue, Baltimore, Maryland 21209.

Mr. Orin Hirschman is the managing member of AIGH CM, who is a sub-advisor with respect to the securities held by WVP Emerging Manager Onshore Fund, LLC - Optimized Equity Series. Mr. Hirschman has voting and investment control over the securities indirectly held by AIGH CM and directly held by Mr. Hirschman and his family directly. The address for AIGH CM and Mr. Hirschman is 6006 Berkeley Avenue, Baltimore, Maryland 21209.

- (4) Evan Markegard has voting or investment control over the shares held by AuGC BioFund LP. The address of the foregoing entity is 8559 Pagoda Way, San Diego, CA 92126.
- (5) Boothbay Absolute Return Strategies, LP, a Delaware limited partnership (“BBARS”), is managed by Boothbay Fund Management, LLC, a Delaware limited liability company (“Boothbay”). Boothbay, in its capacity as the investment manager of BBARS, has the power to vote and the power to direct the disposition of all securities held by BBARS. Ari Glass is the Managing Member of Boothbay. Each of BBARS, Boothbay and Mr. Glass disclaim beneficial ownership of these securities, except to the extent of any pecuniary interest therein.
- (6) Boothbay Diversified Alpha Master Fund LP, a Cayman Islands limited partnership (“BBDAMF”), is managed by Boothbay Fund Management, LLC, a Delaware limited liability company (“Boothbay”). Boothbay, in its capacity as the investment manager of BBDAMF, has the power to vote and the power to direct the disposition of all securities held by BBDAMF. Ari Glass is the Managing Member of Boothbay. Each of BBDAMF, Boothbay and Mr. Glass disclaim beneficial ownership of these securities, except to the extent of any pecuniary interest therein.
- (7) Heights Capital Management, Inc., the authorized agent of CVI Investments, Inc. (“CVI”), has discretionary authority to vote and dispose of the shares held by CVI and may be deemed to be the beneficial owner of these shares. Martin Kobinger, in his capacity as Investment Manager of Heights Capital Management, Inc., may also be deemed to have investment discretion and voting power over the shares held by CVI. Mr. Kobinger disclaims any such beneficial ownership of the shares. CVI Investments, Inc. is affiliated with one or more FINRA member, none of whom are currently expected to participate in the sale pursuant to the prospectus contained in this registration statement. The address of the foregoing entity is c/o Heights Capital Management, Inc., 101 California Street, Suite 3250, San Francisco, CA 94111.
- (8) Michael Bigger, the managing member of the general partner of District 2 Capital Fund LP, has sole voting and dispositive power over the securities held by District 2 Capital Fund LP. The address of District 2 Capital Fund LP is 14 Wall Street, 2nd Floor, Huntington, NY 11743.
- (9) The principal business office address of Laurence W. Lytton is 467 Central Park West, New York, New York 10025.

- (10) Joshua Scheinfeld and Jonathan Cope, principals of Lincoln Park Capital Fund LLC are deemed to be beneficial owners of all the common stock owned by Lincoln Park Capital Fund LLC. Messrs. Scheinfeld and Cope have shared voting and dispositive power. The address of Lincoln Park Capital Fund LLC is 440 N. Wells St. Suite 410, Chicago, IL 60654. Lincoln Park Capital Fund LLC has rights, under various warrants, to acquire an aggregate number of shares of the Company except for the contractual caps in the warrants on the amount of outstanding shares of the Company's Common Stock that Lincoln Park Capital Fund LLC may own, when combined with the shares of Common Stock owned, would exceed such a cap. The ownership cap in the warrants is 9.99%.
- (11) Laurence Lytton has the voting and investment control over the securities held by Lytton-Kambara Foundation. The address of Lytton-Kambara Foundation is 467 Central Park West, 17-A, New York, NY 10025.
- (12) Steven Salamon, President of Rosalind Advisors, Inc., advisor to Rosalind Master Fund L.P. has voting and dispositive power. Rosalind Master Fund L.P. holds the common stock through Investor Company ITF Rosalind Master Fund L.P. The address of Rosalind Master Fund L.P. is c/o TD Waterhouse, 77 Bloor St W. 3RD Floor, Toronto, Ontario M5S 1M2. Investor Company ITF Rosalind Master Fund L.P. has rights, under various warrants, to acquire an aggregate number of shares of the Company except for the contractual caps in the warrants on the amount of outstanding shares of the Company's Common Stock that Investor Company ITF Rosalind Master Fund L.P. may own, when combined with the shares of Common Stock owned, would exceed such a cap. The ownership cap in the warrants is 9.99%.
- (13) Martin Chopp, the General Partner of The Hewlett Fund LP, has voting and dispositive power. The address of The Hewlett Fund LP is 100 Merrick Rd. – Suite 400W, Rockville Centre, NY 11570.
- (14) Includes: (a) 1,640,614 shares of common stock that may be purchased pursuant to the Warrants issued in the Private Placements; and (b) 73,006 shares of Common Stock that may be purchased pursuant to the exercise of other existing warrants, in each case, within 60 days of November 22, 2022.
- (15) Includes 71,942 shares of common stock that may be purchased pursuant to the Warrants issued in the Private Placements, within 60 days of November 22, 2022.
- (16) Consists of 68,146 shares of common stock that may be purchased pursuant to the Warrants issued in the Private Placements, within 60 days of November 22, 2022.
- (17) Consists of 34,731 shares of common stock that may be purchased pursuant to the Warrants issued in the Private Placements, within 60 days of November 22, 2022.
- (18) Includes: (a) 300,000 shares of common stock that may be purchased pursuant to the Warrants issued in the Private Placements; and (b) 138,126 shares of Common Stock that may be purchased pursuant to the exercise of other existing warrants, in each case, within 60 days of November 22, 2022.
- (19) Includes 239,808 shares of common stock that may be purchased pursuant to the Warrants issued in the Private Placements, within 60 days of November 22, 2022.
- (20) Includes: (a) 603,997 shares of common stock that may be purchased pursuant to the Warrants issued in the Private Placements; and (b) 211,400 shares of Common Stock that may be purchased pursuant to the exercise of other existing warrants, in each case, within 60 days of November 22, 2022.
- (21) Includes: (a) 911,294 shares of common stock that may be purchased pursuant to the Warrants issued in the Private Placements; and (b) 154,755 shares of Common Stock that may be purchased pursuant to the exercise of other existing warrants, in each case, within 60 days of November 22, 2022.
- (22) Consists of 710,470 shares of common stock that may be purchased pursuant to the Warrants issued in the Private Placements, within 60 days of November 22, 2022.
- (23) Includes (a) 2,158,272 shares of common stock that may be purchased pursuant to the Warrants issued in the Private Placements; and (b) 111,110 shares of Common Stock that may be issued upon conversion of Series D Preferred Shares, in each case, within 60 days of November 22, 2022.
- (24) Includes 287,769 shares of common stock that may be purchased pursuant to the Warrants issued in the Private Placements, within 60 days of November 22, 2022.
- (25) Consists of: (i) 1,345,650 shares of common stock held by AIGH Investment Partners, LP; (ii) 229,772 shares of common stock held by WVP Emerging Manager Onshore Fund, LLC – AIGH Series; and (iii) 65,192 shares of common stock held by WVP Emerging Manager Onshore Fund LLC – AIGH Series. AIGH Investment Partners, LP, WVP Emerging Manager Onshore Fund, LLC – AIGH Series and WVP Emerging Manager Onshore Fund, LLC – Optimized Equity Series are managed by AIGH Capital Management LLC.

PLAN OF DISTRIBUTION

Each selling stockholder of the securities and any of their pledgees, assignees and successors-in-interest may, from time to time, sell any or all of their securities covered hereby on the Nasdaq Stock Market or any other stock exchange, market or trading facility on which the securities are traded or in private transactions. These sales may be at fixed or negotiated prices. A selling stockholder may use any one or more of the following methods when selling securities:

- ordinary brokerage transactions and transactions in which the broker dealer solicits purchasers;
- block trades in which the broker dealer will attempt to sell the securities as agent but may position and resell a portion of the block as principal to facilitate the transaction;
- purchases by a broker dealer as principal and resale by the broker dealer for its account;
- an exchange distribution in accordance with the rules of the applicable exchange;
- privately negotiated transactions;
- settlement of short sales;
- in transactions through broker dealers that agree with the selling stockholders to sell a specified number of such securities at a stipulated price per security;
- through the writing or settlement of options or other hedging transactions, whether through an options exchange or otherwise;
- a combination of any such methods of sale; or
- any other method permitted pursuant to applicable law.

The selling stockholders may also sell securities under Rule 144 or any other exemption from registration under the Securities Act of 1933, as amended (the “Securities Act”), if available, rather than under this prospectus.

Broker dealers engaged by the selling stockholders may arrange for other broker dealers to participate in sales. Broker dealers may receive commissions or discounts from the selling stockholders (or, if any broker dealer acts as agent for the purchaser of securities, from the purchaser) in amounts to be negotiated, but, except as set forth in a supplement to this Prospectus, in the case of an agency transaction not in excess of a customary brokerage commission in compliance with FINRA Rule 2121.

In connection with the sale of the securities or interests therein, the selling stockholders may enter into hedging transactions with broker-dealers or other financial institutions, which may in turn engage in short sales of the securities in the course of hedging the positions they assume. The selling stockholders may also sell securities short and deliver these securities to close out their short positions, or loan or pledge the securities to broker-dealers that in turn may sell these securities. The selling stockholders may also enter into option or other transactions with broker-dealers or other financial institutions or create one or more derivative securities which require the delivery to such broker-dealer or other financial institution of securities offered by this prospectus, which securities such broker-dealer or other financial institution may resell pursuant to this prospectus (as supplemented or amended to reflect such transaction).

The selling stockholders and any broker-dealers or agents that are involved in selling the securities may be deemed to be “underwriters” within the meaning of the Securities Act in connection with such sales. In such event, any commissions received by such broker-dealers or agents and any profit on the resale of the securities purchased by them may be deemed to be underwriting commissions or discounts under the Securities Act. Each selling stockholder has informed the Company that it does not have any written or oral agreement or understanding, directly or indirectly, with any person to distribute the securities.

The Company is required to pay certain fees and expenses incurred by the Company incident to the registration of the securities. The Company has agreed to indemnify the selling stockholders against certain losses, claims, damages and liabilities, including liabilities under the Securities Act.

We agreed to keep this prospectus effective until the earlier of (i) the date on which the securities may be resold by the selling stockholders without registration and without regard to any volume or manner-of-sale limitations by reason of Rule 144, without the requirement for the Company to be in compliance with the current public information under Rule 144 under the Securities Act or any other rule of similar effect, or (ii) all of the securities have been sold pursuant to this prospectus or Rule 144 under the Securities Act or any other rule of similar effect. The resale securities will be sold only through registered or licensed brokers or dealers if required under applicable state securities laws. In addition, in certain states, the resale securities covered hereby may not be sold unless they have been registered or qualified for sale in the applicable state or an exemption from the registration or qualification requirement is available and is complied with.

Under applicable rules and regulations under the Exchange Act, any person engaged in the distribution of the resale securities may not simultaneously engage in market making activities with respect to the common stock for the applicable restricted period, as defined in Regulation M, prior to the commencement of the distribution. In addition, the selling stockholders will be subject to applicable provisions of the Exchange Act and the rules and regulations thereunder, including Regulation M, which may limit the timing of purchases and sales of the common stock by the selling stockholders or any other person. We will make copies of this prospectus available to the selling stockholders and have informed them of the need to deliver a copy of this prospectus to each purchaser at or prior to the time of the sale (including by compliance with Rule 172 under the Securities Act).

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 shares of common stock 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 common stock 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 Securities and Exchange Commission filings, including the registration statement, over the Internet at the SEC's website at www.sec.gov. You may also request a copy of these filings, at no cost, by writing us at 100 Campus Drive Florham Park, New Jersey 07932 or telephoning us at (608) 441-8120.

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 website of the Securities and Exchange Commission referred to above. We maintain a website at <https://www.cellectar.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 Securities and Exchange Commission free of charge at our website as soon as reasonably practicable after such material is electronically filed with, or furnished to, the Securities and Exchange Commission. 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.

LEGAL MATTERS

The validity of the securities being offered by this prospectus has been passed upon for us by Sidley Austin LLP, New York, New York.

EXPERTS

The audited financial statements incorporated by reference in this prospectus and elsewhere in the registration statement have been so incorporated by reference in reliance upon the report of Baker Tilly US, LLP, independent registered public accountants, upon the authority of said firm as experts in accounting and auditing.

INCORPORATION OF DOCUMENTS BY REFERENCE

The SEC allows us to "incorporate by reference" information into this prospectus. This means that we can disclose important information to you by referring you to another document filed separately with the SEC. The information incorporated by reference is considered to be a part of this prospectus, except for any information that is superseded by other information that is included in this prospectus.

We incorporate by reference into this prospectus the following document, which we have previously filed with the SEC:

- our Annual Report on Form 10-K for the fiscal year ended December 31, 2021, filed with the SEC on [March 21, 2022](#);
- our Quarterly Reports on Form 10-Q for the quarters ended March 31, 2022, June 30, 2022 and September 30, 2022 filed with the SEC on [May 10, 2022](#), [August 5, 2022](#) and [November 3, 2022](#), respectively;
- our Definitive Proxy Statement on Schedule 14A for the annual meeting of stockholders, filed with the SEC on [April 29, 2022](#), [June 6, 2022](#) and [June 7, 2022](#);
- our Current Reports on Form 8-K, filed with the SEC on [February 25, 2022](#), [May 6, 2022](#), [June 7, 2022](#), [June 27, 2022](#), [July 21, 2022](#) (item 5.03 only), [September 13, 2022](#), [September 22, 2022](#) (Item 8.01 only), [October 25, 2022](#) (Items 1.01 and 3.02, and the related exhibits under Item 9.01) and [December 2, 2022](#); and
- the description of our securities contained in our Registration Statement on Form 8-A filed on [April 18, 2016](#), including any amendment or report 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 will be deemed to be incorporated by reference into this prospectus.

You should rely only on the information contained in this prospectus, as updated and supplemented by any prospectus supplement, or that information to which this prospectus or any prospectus supplement has referred you by reference. We have not authorized anyone to provide you with any additional information.

Any statement contained in a document incorporated or deemed to be incorporated by reference herein will be deemed to be modified or superseded for purposes of this prospectus to the extent that a statement contained herein modifies or supersedes such statement. Any statement so modified or superseded will not be deemed, except as so modified or superseded, to constitute a part of this prospectus.

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

Collectar Biosciences, Inc.
100 Campus Drive
Florham Park, New Jersey 07932
Attention: Chief Financial Officer (608) 441-8120

PROSPECTUS



7,027,043 SHARES OF COMMON STOCK ISSUABLE UPON EXERCISE OF OUTSTANDING WARRANTS

December 2, 2022
