AMYRIS, INC.
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Registration No. 333-219732

PROSPECTUS SUPPLEMENT

(To prospectus dated October 18, 2017)

4,877,386 Shares

AMYRIS, INC.

Common Stock

This prospectus supplement relates to the offer and sale of up to 4,877,386 shares of our common stock by the selling stockholder identified in this prospectus supplement. As part of the same offering, and pursuant to a prospectus supplement filed on today's date under that certain Registration on Form S-3 declared effective by the Securities Exchange Commission, or the SEC, on December 1, 2017 (Registration No. 333-221351), a different selling stockholder will also be selling up to 3,924,884, which amount assumes the exercise in full by the underwriter of its option to purchase additional shares from such selling stockholder, shares of our common stock as described in more detail in that prospectus supplement.

We are not selling any securities under this prospectus supplement and will not receive any of the proceeds from the sale of these shares by the selling stockholder. We will pay the expenses incurred in registering the shares, including

legal and accounting fees.

Our common stock is traded on the NASDAQ Global Select Market under the symbol "AMRS." On August 17, 2018, the closing price of our common stock was $6.56.

Investing in our securities involves risks. See "Risk Factors" commencing on page S-5 of this prospectus supplement and page 4 of the accompanying prospectus. You should carefully read this prospectus supplement, the accompanying prospectus and the documents incorporated herein and therein before making any investment decision.

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

	Per Share	*Total*
Public offering price	$6.25	$30,483,662.50
Underwriting discount(1)	$0.03125	$152,418.31
Proceeds, before expenses, to the selling stockholder	$6.21875	$30,331,244.19

(1) In addition to the underwriting discount payable by the selling stockholder, we have agreed to pay the underwriter a structuring and advisory fee equal to 4.5% of the gross proceeds of this offering. See "Underwriting" beginning on page S-15 for a description of the compensation payable to the underwriter.

The underwriter expects to deliver the shares of common stock against payment on or about August 21, 2018.

Sole Book-Running Manager

B.
Riley
FBR

The date of this prospectus supplement is August 17, 2018.

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Prospectus

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You should rely only on the information contained or incorporated by reference in this prospectus supplement or the accompanying prospectus. Neither we, the underwriter, nor the selling stockholder, have authorized anyone to provide you with different information. If anyone provides you with different or inconsistent information, you should not rely

on it. We are not making an offer to sell these securities in any jurisdiction where the offer or sale is not permitted. This document may only be used where it is legal to sell these securities. You should not assume that the information contained or incorporated by reference in this prospectus supplement and the accompanying prospectus is accurate as of any date other than the date on the front of each document. Our business, financial condition, results of operations and prospects may have changed since then.

FORWARD-LOOKING STATEMENTS

This prospectus supplement and the other documents we have filed with the SEC that are incorporated herein by reference contain forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995 that involve risks and uncertainties, as well as assumptions that, if they never materialize or prove incorrect, could cause our results to differ materially from those expressed or implied by such forward-looking statements. These risks and uncertainties, including those discussed under the heading “Risk Factors” below, include the possibilities of delays or failures in development, production or commercialization of products, and in our reliance on third parties to achieve our goals.

All statements other than statements of historical fact are statements that could be deemed forward-looking statements, including any projections of financing needs, revenue, expenses, earnings or losses from operations, or other financial items; any statements of the plans, strategies and objectives of management for future operations; any statements concerning product research, development and commercialization plans and timelines; any statements regarding expected production capacities, volumes and costs; any statements regarding anticipated benefits of our products and expectations for commercial relationships; any other statements of expectation or belief; and any statements of assumptions underlying any of the foregoing. In addition, the words “believe,” “anticipate,” “expect,” “estimate,’ “intend,” “plan,” “project,” “will be,” “will continue,” “will result,” “seek,” “could,” “may,” “might,” or any variations of such other words with similar meanings generally identify forward-looking statements.

Given these uncertainties, you should not place undue reliance on these forward-looking statements. You should read this prospectus supplement and the documents that we incorporate by reference in this prospectus supplement with the understanding that our actual future results may be materially different from what we expect.

The forward-looking statements in this prospectus supplement or other document we have filed with the SEC and incorporated herein represent our views as of the date thereof. We anticipate that subsequent events and developments will cause our views to change. However, while we may elect to update these forward-looking statements at some point in the future or to conform these statements to actual results or revised expectations, we have no current intention of doing so except to the extent required by applicable law. You should, therefore, not rely on these forward-looking statements as representing our views as of any date subsequent to the date of this prospectus supplement or other document.

SUMMARY

The following summary provides an overview of selected information related to this offering and does not contain all the information that you should consider before investing in our securities. You should carefully read this entire prospectus supplement and accompanying prospectus, including the risks of investing discussed under "Risk Factors" beginning on page 5, the financial statements and related notes and other information incorporated by reference herein and, if applicable, any related free writing prospectus, and the additional information described under the captions "Where You Can Find More Information" and "Incorporation of Certain Information by Reference," before buying securities covered by this prospectus supplement. Unless the context otherwise requires, "Amyris," the "Company," "we," "us," "our" and similar names refer to Amyris, Inc. References to the "selling stockholder" refer to the stockholder listed herein under the heading "Selling Stockholder" on page 38, who may sell shares as described in this prospectus supplement.

About This Prospectus Supplement

This document is in two parts. The first is this prospectus supplement, which describes the specific terms of this offering. The second part, the accompanying prospectus, gives more general information, some of which may not apply to this offering of shares. This prospectus supplement also adds to, updates and changes information contained in the accompanying prospectus. If the description of the offering varies between this prospectus supplement and the accompanying prospectus, you should rely on the information in this prospectus supplement. The accompanying prospectus is part of a registration statement that we filed with the Securities and Exchange Commission, or SEC, using a "shelf" registration process. Under the shelf registration process, the selling stockholder may offer and sell common stock, from time to time, in one or more offerings.

You should carefully read both this prospectus supplement and the accompanying prospectus, together with the additional information described under the heading "Where You Can Find More Information" on page S-21 of this prospectus and page 54 of the accompanying prospectus, in making your investment decision.

About Amyris, Inc.

Overview

We are a leading industrial biotechnology company that applies its technology platform to engineer, manufacture and sell high performance, natural, sustainably sourced products into the Health & Wellness, Clean Beauty, and Flavors & Fragrances markets. Our proven technology platform enables us to rapidly engineer microbes and use them as catalysts to metabolize renewable, plant-sourced sugars into large volume, high-value ingredients. Our biotechnology platform and industrial fermentation process replace existing complex and expensive manufacturing processes. We have successfully used our technology to develop and produce five distinct molecules at commercial volumes.

Background

We were founded in 2003 in the San Francisco Bay area by a group of scientists from the University of California, Berkeley. Our first major milestone came in 2005 when, through a grant from the Bill & Melinda Gates Foundation, we developed technology capable of creating microbial strains that produce artemisinic acid, which is a precursor of artemisinin, an effective anti-malarial drug. In 2008, we granted royalty-free licenses to allow Sanofi-Aventis to produce artemisinic acid using our technology. Building on our success with artemisinic acid, in 2007 we began applying our technology platform to develop, manufacture and sell sustainable alternatives to a broad range of markets.

We focused our initial development efforts primarily on the production of Biofene®, our brand of renewable farnesene, a long-chain, branched hydrocarbon molecule that we manufacture through fermentation using engineered microbes. Our farnesene derivatives are sold in hundreds of products as nutraceuticals, skincare products, fragrances, solvents, polymers, and lubricant ingredients. The commercialization of farnesene pushed us to create a more cost efficient, faster and accurate development process in the lab and drive manufacturing costs down. This investment has enabled our technology platform to rapidly develop microbial strains and commercialize target molecules. In 2014, we began manufacturing additional molecules for the Flavors & Fragrances industry; in 2015 we began investing to expand our capabilities to other small molecule chemical classes beyond terpenes via our collaboration with the Defense Advanced Research Projects Agency, and in 2016 we expanded into proteins.

Our Platform

We have invested over $500 million in infrastructure and technology to create microbes that produce molecules from sugar or other feedstocks at commercial scale. This platform has been used to design, build, optimize, and upscale strains producing five distinct molecules, leading to more than 15 commercial ingredients used in over 600 consumer products. Our time to market for molecules has decreased from seven years to less than a year for our most recent molecule, mainly due to our ability to leverage the technology platform we have built.

Our technology platform has been in active use since 2008 and has been integrated with our commercial production since 2011, creating an organism development process that we believe makes us an industry leader in the successful scale-up and commercialization of biotech-produced ingredients. The key performance characteristics of our platform that we believe differentiate us include our proprietary computational tools, strain construction tools, screening and analytics tools, and advanced lab automation and data integration. Having this fully integrated with our large scale manufacturing process and capability enables us to always engineer with the end specification and requirements guiding our technology. Our state-of-the-art infrastructure includes industry-leading strain engineering and lab automation located in Emeryville, California, pilot scale production facilities in Emeryville, California and Campinas, Brazil, a demonstration-scale facility in Campinas, Brazil and a commercial-scale production facility in Leland, North Carolina, which is owned and operated by our Aprinnova joint venture to convert our Biofene into squalane and other final products.

We are able to use a wide variety of feedstocks for production, but have focused on accessing Brazilian sugarcane for our large-scale production because of its renewability, low cost and relative price stability. We have also successfully used other feedstocks such as sugar beets, corn dextrose, sweet sorghum and cellulosic sugars at various manufacturing facilities.

Strategy and Business Model

We believe that industrial synthetic biology represents a third industrial revolution, bringing together biology and engineering to generate new, more sustainable materials to meet the growing global demand for bio-based replacements for petroleum-based and traditional animal- or plant-derived ingredients. We continue to build demand for our current portfolio of products through an extensive sales network provided by our collaboration partners that represent the world's leading companies for our target market sectors. We also have a small group of direct sales and distributors who support our Clean Beauty market. With our partnership model, our partners invest in the development of each molecule to bring it from the lab to commercial scale and use their extensive sales force to sell our ingredients and formulations to their customers as part of their core business. We capture long-term revenue both through the production and sale of the molecule to our partners and through royalty revenues (previously referred to as value share) from our partners' product sales to their customers.

Several years ago, we made the strategic decision to transition our business model from collaborating and commercializing molecules in low margin commodity markets to higher margin specialty markets. We began the transition by first commercializing and supplying farnesene-derived squalene as a cosmetic ingredient sold to formulators and distributors. We also entered into collaboration and supply agreements for the development and commercialization of molecules within the Flavors & Fragrances and Cosmetic Ingredients where we utilize our strain generation technology to develop molecules that meet our customers' rigorous specifications.

During this transition, we solidified the business model of partnering with our customers to create sustainable, high performing, low-cost molecules that replace an ingredient in their supply chain, commercially scale and manufacture those molecules, and share in the profits earned by our customers once our customer sells its product into these specialty markets. These three steps constitute our collaboration revenues, renewable product revenues, and royalty revenues (previously referred to as value share revenues).

Corporate Information

We were originally incorporated in California in 2003 under the name Amyris Biotechnologies, Inc. and then reincorporated in Delaware in 2010 and changed our name to Amyris, Inc. Our principal executive offices are located at 5885 Hollis Street, Suite 100, Emeryville, California 94608, and our telephone number is (510) 450-0761. Our website address is www.amyris.com. The information contained in or accessible through our website or contained on other websites is not a part of, and not incorporated into, this prospectus supplement.

Amyris, the Amyris logo and Biofene are trademarks or registered trademarks of Amyris, Inc. This prospectus supplement also contains trademarks and trade names of other businesses that are the property of their respective holders.

Warrants and Exercise Agreements

Foris Transactions

In May 2017, the Company issued and sold an aggregate of 22,140 shares of Series A 17.38% Convertible Preferred Stock, par value $0.0001 per share (the “Series A Preferred Stock”), 70,904 shares of Series B 17.38% Convertible Preferred Stock, par value $0.0001 per share (the “Series B Preferred Stock”), and warrants to purchase an aggregate of 7,384,190 shares of common stock at an exercise price of $7.80 per share, warrants to purchase an aggregate of 7,384,190 shares of common stock at an exercise price of $9.30 per share (such amounts of warrants and exercise prices reflecting the Company’s 1-for-15 reverse stock split of its common stock effected on June 5, 2017 (the “Reverse Stock Split”)), and warrants to purchase a number of shares of common stock sufficient to provide full-ratchet anti-dilution protection with respect to the effective price paid for the common stock underlying the Series A Preferred Stock and Series B Preferred Stock (collectively, the “Warrants”) in separate offerings to a number of investors (collectively, the “May 2017 Offerings”).

The Company issued to each investor in the May 2017 Offerings Warrants to purchase a number of shares of common stock equal to 100% of the shares of common stock into which such investor's shares of Series A Preferred Stock or Series B Preferred Stock were initially convertible (including shares of common stock issuable as payment of a make-whole payment on such shares of Preferred Stock equal to $1,738 per $1,000 of stated value of such Preferred Stock (the “Make-Whole Payment”), assuming that the Make-Whole Payment is made in common stock), representing warrants to purchase 14,768,380 shares of common stock in the aggregate for all investors (collectively, the “Cash Warrants”), 7,384,190 shares of which were exercisable at a per share price of $7.80 and 7,384,190 shares of which were exercisable at a per share price of $9.30. The exercise price of the Cash Warrants is subject to standard adjustments as well as full-ratchet anti-dilution protection for any issuance by the Company of equity or equity-linked

securities during the three-year period following the closing the of applicable May 2017 Offering (the “Dilution Period”) at a per share price less than the then-current exercise price of the Cash Warrants, subject to certain exceptions. As of June 30, 2018, after giving effect to certain dilutive issuances of equity and equity-linked securities in August 2017, the Cash Warrant held by the selling stockholder was exercisable for 4,877,386 shares at an exercise price of $4.40 per share, subject to the Beneficial Ownership Limitation (as defined below). In addition, the Company issued to each investor a Warrant (collectively, the “Dilution Warrants”) to purchase a number of shares of common stock sufficient to provide the investor with full-ratchet anti-dilution protection for any issuance by the Company of equity or equity-linked securities during the Dilution Period at a per share price less than $6.30, the effective per share price paid by the investors for the shares of common stock issuable upon conversion of their Series A Preferred Stock or Series B Preferred Stock (including shares of common stock issuable as payment of the Make-Whole Payment, assuming that the Make-Whole Payment is made in common stock), subject to certain exceptions, at an exercise price of $0.0015 per share (such effective per share price and exercise price reflecting the Reverse Stock Split). As of June 30, 2018, after giving effect to certain dilutive issuances of equity and equity-linked securities in August 2017, the selling stockholder’s Dilution Warrant was exercisable for 2,106,217 shares, subject to the Beneficial Ownership Limitation. The Cash Warrant and Dilution Warrants each expire in July 2022.

Concurrent with this offering, the Company expects to enter into a Warrant Exercise Agreement (the "Exercise Agreement") with the selling stockholder with respect to the selling stockholder's outstanding Warrants. Pursuant to the Exercise Agreement, the selling stockholder will agree to (i) exercise its Cash Warrant in full for cash and (ii) surrender its Dilution Warrant to the Company for cancellation after exercising it in full, and the Company will simultaneously issue to the selling stockholder a new warrant (the "New Warrant") to purchase a number of shares of common stock equal to the number of shares underlying the selling stockholder's Cash Warrant being exercised pursuant to the Exercise Agreement, with the New Warrant having substantially identical terms to the Cash Warrant, except that (A) the expiration date of the New Warrant will be fifteen months after issuance, (B) the New Warrant will not contain any anti-dilution protection, other than standard adjustments in the event of any dividends or distributions on the Company's common stock, or any stock split, reverse stock split, recapitalization, reorganization or similar transaction, (C) the New Warrant will only permit exercise after the six-month anniversary of issuance, and will only permit "cashless" or "net" exercise after such time to the extent that there is not an effective registration statement covering the resale of the shares of common stock underlying the New Warrants, (D) the exercise price of the New Warrant will represent a $0.02 premium to the closing price of the Company's common stock on the trading day immediately preceding the date of the Exercise Agreement, subject to adjustment and (E) the exercise of the New Warrant will not be subject to the Beneficial Ownership Limitation.

The Exercise Agreement will be executed and binding on the selling stockholder on August 17, 2018, with the closing of the transactions contemplated by the Exercise Agreement to occur on August 21, 2018. At or prior to the closing, in a manner consistent with the Exercise Agreements, the selling stockholder will deliver to the Company an irrevocable notice of exercise with respect to its Cash Warrant and Dilution Warrant, the selling stockholder's Dilution Warrant will be deemed cancelled following its exercise in full, and the Company will issue the New Warrant to the selling stockholder to purchase an aggregate of 4,877,386 shares of common stock. In addition, in connection with the Exercise Agreement, (i) the Company expects to enter into amendments with the selling stockholder to remove from the selling stockholder's Warrants (but not Series B Preferred Stock) a beneficial ownership limitation, which currently provides that the selling stockholder may not convert its shares of Series B Preferred Stock or exercise its Warrants to the extent the selling stockholder, together with its affiliates, would beneficially own in excess of 9.99% of the number of shares of common stock outstanding immediately after giving effect to such conversion or exercise, as applicable (the "Beneficial Ownership Limitation") and (ii) the Company expects that the selling stockholder will exercise its Dilution Warrant in full (either on a cash or net exercise basis, as permitted by the terms of Dilution Warrant) prior to its deemed cancellation pursuant to the Exercise Agreement. The Company expects to receive proceeds of approximately $21.5 million from the exercise of the selling stockholder's Cash Warrant and Dilution Warrant.

Vivo Transactions

In August 2017, the Company issued and sold to Vivo Capital Fund VIII, L.P. and Vivo Capital Surplus Fund VIII, L.P. (collectively, "Vivo") an aggregate of 2,826,711 shares of common stock, 12,958,.21196 shares of Series D Convertible Preferred Stock, par value $0.0001 per share (the "Series D Preferred Stock"), which Series D Preferred Stock is convertible into common stock as described below, at a price of $1,000 per share of Series D Preferred Stock, and warrants to purchase an aggregate of 5,575,118 shares of common stock at an exercise price of $6.39 per share, and warrants to purchase a number of shares of common stock sufficient to provide full-ratchet anti-dilution

protection for any issuance by the Company of equity or equity-linked securities during the three-year period following the closing of such transactions at a per share price (including any conversion or exercise price, if applicable) less than $4.26 per share, subject to certain exceptions and a dilution floor (collectively, the “Vivo Warrants”) (the “August 2017 Vivo Offering”).

In the August 2017 Vivo Offering, the Company issued to Vivo entities the Vivo Warrants to purchase a number of shares of common stock equal to 95% of the shares of common stock issued to Vivo in such offering as well as the shares of common stock into which Vivo’s shares of Series D Preferred Stock were initially convertible, representing warrants to purchase 5,575,118 shares of common stock in the aggregate for Vivo (collectively, the “Vivo Cash Warrants”), exercisable at a per share price of 6.39. The exercise price of the Vivo Cash Warrants is subject to standard adjustments as well as full-ratchet anti-dilution protection for any issuance by the Company of equity or equity-linked securities during the three-year period following the closing the of applicable August 2017 Vivo Offering (the “Vivo Dilution Period”) at a per share price less than the then-current exercise price of the Vivo Cash Warrants, subject to certain exceptions. As of June 30, 2018, the Vivo Cash Warrants held by Vivo were exercisable for 5,575,118 shares at an exercise price of $6.39 per share, subject to the Vivo Beneficial Ownership Limitation (as defined below), however, such exercise price will be amended to $4.40 per share as of immediately prior to the transactions contemplated by this prospectus supplement as described further below. In addition, the Company issued to the Vivo entities Warrants (collectively, the “Vivo Dilution Warrants”) to purchase a number of shares of common stock sufficient to provide Vivo with full-ratchet anti-dilution protection for any issuance by the Company of equity or equity-linked securities during Vivo Dilution Period at a per share price (including any conversion or exercise price, if applicable) less than $4.26 per share, subject to certain exceptions, at an exercise price of $0.001 per share. As of June 30, 2018, Vivo’s Dilution Warrants were exercisable for no shares. The Vivo Cash Warrants and Vivo Dilution Warrants each expire in July 2022.

Concurrent with this offering, the Company expects to enter into Warrant Exercise Agreements (the "Vivo Exercise Agreements") with Vivo with respect to Vivo's outstanding Vivo Warrants. Pursuant to the Vivo Exercise Agreements, the Vivo entities will agree to (i) exercise their respective Vivo Cash Warrants in full for cash and (ii) surrender their respective Vivo Dilution Warrants to the Company for cancellation, and the Company will issue to Vivo new warrants (the "Vivo New Warrants") to purchase a number of shares of common stock equal to approximately 1.3 times the number of shares underlying Vivo's Cash Warrants being exercised pursuant to the Vivo Exercise Agreements, with the Vivo New Warrants having substantially identical terms to the Vivo Cash Warrants, except that (A) the expiration date of the Vivo New Warrant will be fifteen months after issuance, (B) the Vivo New Warrant will not contain any anti-dilution protection, other than standard adjustments in the event of any dividends or distributions on the Company's common stock, or any stock split, reverse stock split, recapitalization, reorganization or similar transaction, (C) the Vivo New Warrant will only permit exercise after the six-month anniversary of issuance, and will only permit "cashless" or "net" exercise after such time to the extent that there is not an effective registration statement covering the resale of the shares of common stock underlying the Vivo New Warrants, (D) the exercise price of the Vivo New Warrant will represent a $0.02 premium to the closing price of the Company's common stock on the trading day immediately preceding the date of the Vivo Exercise Agreement, subject to adjustment and (E) the exercise of the Vivo New Warrant will not be subject to the Vivo Beneficial Ownership Limitation.

The Exercise Agreement will be executed and binding on the selling stockholder on August 17, 2018, with the closing of the transactions contemplated by the Vivo Exercise Agreements to occur in two tranches, first on August 21, 2018 and second at the time that the underwriter elects to exercise its option to purchase more shares from Vivo. See "Underwriting—Option to Purchase Additional Shares." At each closing, Vivo will deliver to the Company an irrevocable notice of exercise with respect to a portion of its Vivo Cash Warrants (it being understood that all Vivo Cash Warrants will be exercised if the underwriter exercises its option to purchase additional shares in full), the Vivo Dilution Warrants will be deemed cancelled (as of the initial closing), and the Company will issue the Vivo New Warrants to Vivo to purchase up to an aggregate of 7,219,778 shares of common stock, assuming the underwriter exercises its option to purchase additional shares in full. In addition, in connection with the Vivo Exercise Agreements, (i) the Company expects to enter into amendments with Vivo to (a) remove from the Vivo Warrants a beneficial ownership limitation, which currently provides that Vivo may not convert its shares of Series D Preferred Stock or exercise its Vivo Warrants to the extent Vivo, together with its affiliates, would beneficially own in excess of 9.99% of the number of shares of common stock outstanding immediately after giving effect to such conversion or exercise, as applicable (the "Vivo Beneficial Ownership Limitation"), and (b) reduce the exercise price of the Vivo Cash Warrants from $6.39 to $4.40 to resolve certain matters as to matters relating to the August 2017 Vivo Offering. Koninklijke DSM N.V. ("DSM") has consent rights with respect to these changes and while the Company has discussed such changes with DSM, the Company is still working with DSM to address such rights and there is no assurance the Company will be able to do so. The Company expects to receive proceeds of approximately $24.5 million from the exercise of the Vivo Cash Warrants, assuming the underwriter exercises its option to purchase additional shares in full.

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The Offering

Common stock offered by selling stockholder	Up to 4,877,386 shares of Common Stock.
Common stock to be outstanding immediately after the offering	62,366,371 shares (assumes the Cash Warrant and Dilution Warrants held by the selling stockholder are each exercised in full on a cash basis, that the "Concurrent Offering" described below is consummated and that the underwriter's option to purchase additional shares is exercised in full). See "Warrants and Exercise Agreements."
Selling stockholder	Foris Ventures, LLC ("Foris")
Listing	Our common stock is listed on the NASDAQ Global Select Market under the symbol "AMRS."
Risk Factors	Investing in our common stock involves a high degree of risk. Please see "Risk Factors" beginning on page S-9 of this prospectus supplement, page 5 of the accompanying prospectus and the risk factors set forth in the documents incorporated by reference herein and therein for a discussion of risks to consider before deciding to purchase shares of our common stock.
Lock-Up	The Company and the selling stockholder have agreed with the underwriter, subject to certain exceptions, not to dispose of or hedge any of their common stock or securities convertible into or exchangeable for shares of common stock during the period from the date of this prospectus supplement continuing through the date 60 days (in the case of the Company) and 180 days (in the case of the selling stockholder) after the date of this prospectus supplement, except with the prior written consent of the underwriter.
Concurrent Offering	In connection with this offering, Vivo will also be selling up to 3,924,884 shares, which includes 1,148,122 shares subject to the exercise in full in of the underwriter's option to purchase additional shares, of Common Stock as described in more detail in that certain prospectus supplement filed on today's date under that certain Registration Statement on Form S-3 declared effective by the SEC on December 1, 2017 (Registration No. 333-221351) (the "Vivo Prospectus Supplement"). In connection with such sale, Vivo will also be exercising warrants currently held by Vivo for 5,575,118 shares of Common Stock, which shares are reflected above in the number of shares outstanding immediately after the offering.
Use of proceeds	We will not receive any proceeds from the sale of any shares by the selling stockholder. However, we expect to receive proceeds of approximately $21.5 million from the exercise of the selling stockholder's Cash Warrant and Dilution Warrant. See "Use of Proceeds."

Except as otherwise indicated, the number of shares of common stock to be outstanding following the offering is based on 50,340,331 fully paid shares outstanding at June 30, 2018, which excludes:

- 13,737,875 shares of our common stock reserved for issuance under our equity incentive plans, of which there are outstanding (i) stock options to purchase 5,424,330 shares with a weighted-average exercise price of $11.83 per share, and (ii) restricted stock units with respect to 5,213,890 shares, in each case as of June 30, 2018.

- 17,177,967 shares of our common stock issuable upon the exercise of outstanding warrants (excluding the Cash Warrant and Dilution Warrant held by the selling stockholder and the warrant being exercised by Vivo as described above) having a weighted-average exercise price of $4.56 per share as of June 30, 2018, subject to anti-dilution and other adjustments.
- 12,444,724 shares of our common stock issuable upon conversion of our outstanding convertible indebtedness and convertible preferred stock as of June 30, 2018, subject to anti-dilution, make-whole and other adjustments
- 4,877,386 shares of our common stock issuable upon exercise of the New Warrant and 7,219,778 shares of our common stock issuable upon exercise of the new warrant being issued to Vivo as described in the Vivo Prospectus Supplement (which assumes the underwriter's option to purchase additional shares is exercised in full).
- Shares of our common stock that we may issue or become obligated to issue subsequent to June 30, 2018 as a result of accrued interest on certain of our convertible indebtedness being paid by "in kind" in the form of additional principal amount of such indebtedness and of our election to pay interest (including any future interest payable upon conversion) on certain of our outstanding convertible indebtedness in shares of our common stock.

The number of shares listed above with respect to our outstanding warrants, outstanding convertible indebtedness and outstanding convertible preferred stock does not give effect to any anti-dilution adjustments that may occur as a result of this offering or the concurrent offering with Vivo and the transactions related thereto.

RISK FACTORS

Investing in our common stock involves a high degree of risk. Prior to making a decision about investing in our securities, you should carefully consider the specific factors discussed below, which may be amended, supplemented, or superseded from time to time by reports we file with the SEC in the future. These risk factors should be read together with the financial and other information contained or incorporated by reference in this prospectus supplement before making a decision to buy our common stock, including without limitation the risks described in Part I, Item 1A, "Risk Factors" in our Annual Report on Form 10-K for the fiscal year ended December 31, 2017 and in Part II, Item 1A, "Risk Factors" in our Quarterly Reports on Form 10-Q for the fiscal quarters ended March 31, 2018 and June 30, 2018. If any of the risks actually occur, our business, financial condition and results of operations could suffer. In these circumstances, the market price of our common stock could decline and you may lose all or part of your investment in our common stock.

Additional risks and uncertainties beyond those set forth in our reports and not presently known to us or that we currently deem immaterial may also affect our operations. Any risks and uncertainties, whether set forth in our reports or otherwise, could cause our business, financial condition, results of operations and future prospects to be materially and adversely harmed. The trading price of our common stock could decline due to any of these risks and uncertainties, and, as a result, you may lose all or part of your investment.

Our stock price may be volatile.

The market price of our common stock has been, and we expect it to continue to be, subject to significant volatility, and it has declined significantly from our initial public offering price. As of August 15, 2018, the reported closing price of our common stock on NASDAQ was $7.43 per share. Market prices for securities of early stage companies have historically been particularly volatile. Such fluctuations could be in response to, among other things, the factors described in this "Risk Factors" section, or other factors, some of which are beyond our control, such as:

- fluctuations in our financial results or outlook or those of companies perceived to be similar to us;
- changes in estimates of our financial results or recommendations by securities analysts;
- changes in market valuations of similar companies;
- changes in the prices of commodities associated with our business such as sugar, ethanol and petroleum or changes in the prices of commodities that some of our products may replace, such as oil and other petroleum sourced products;
- changes in our capital structure, such as future issuances of securities or the incurrence of debt;
- announcements by us or our competitors of significant contracts, acquisitions or strategic partnerships;
- regulatory developments in the United States, Brazil, and/or other foreign countries;
- litigation involving us, our general industry or both;

- additions or departures of key personnel;
- investors’ general perception of us; and
- changes in general economic, industry and market conditions.

Furthermore, stock markets have experienced price and volume fluctuations that have affected, and continue to affect, the market prices of equity securities of many companies. These fluctuations often have been unrelated or disproportionate to the operating performance of those companies. These broad market fluctuations, as well as general economic, political and market conditions, such as recessions, interest rate changes and international currency fluctuations, may negatively affect the market price of our common stock.

In the past, many companies that have experienced volatility and sustained declines in the market price of their stock have become subject to securities class action and derivative action litigation. We were involved in two such lawsuits which were dismissed in 2014, were involved in three such lawsuits that were dismissed in September 2017 and July 2018, respectively, and are currently involved in two such lawsuits, and we may be the target of this type of litigation in the future. Securities litigation against us could result in substantial costs and divert our management’s attention from other business concerns, which could seriously harm our business.

If our common stock is delisted from NASDAQ, our business, financial condition, results of operations and stock price could be adversely affected, and the liquidity of our stock and our ability to obtain financing could be impaired.

On June 14, 2016, we received a notice from NASDAQ notifying us that we were not in compliance with the requirement of NASDAQ Listing Rule 5450(a)(1) for continued listing on The NASDAQ Global Market (the Minimum Bid Price Listing Rule), as a result of the closing bid price of our common stock being below $1.00 per share for 30 consecutive business days. In accordance with NASDAQ Listing Rule 5810(c)(3)(A), we had 180 calendar days, or until December 12, 2016, to regain compliance with the Minimum Bid Price Listing Rule. To regain compliance, the closing bid price of our common stock had to be at least $1.00 per share for a minimum of 10 consecutive business days. On November 1, 2016, we received a notice from NASDAQ that we had regained compliance with the Minimum Bid Price Listing Rule. Subsequently, on December 19, 2016, we received a notice from NASDAQ notifying us that we were again not in compliance with the Minimum Bid Price Listing Rule as a result of the closing bid price of our common stock being below $1.00 per share for 30 consecutive business days. In accordance with NASDAQ Listing Rule 5810(c)(3)(A), we had 180 calendar days, or until June 19, 2017, to regain compliance with the Minimum Bid Price Listing Rule. On June 5, 2017, after receiving board and stockholder approval, we amended our certificate of incorporation to implement a 1-for-15 reverse stock split of our common stock as well as a reduction of the total number of authorized shares of our common stock from 500,000,000 to 250,000,000. On June 20, 2017, we received a letter from NASDAQ notifying us that we had regained compliance with the Minimum Bid Price Listing Rule as a result of the closing bid price of our common stock being at $1.00 per share or greater for the 10 consecutive business days from June 6, 2017 to June 19, 2017. There can be no assurance that we will maintain compliance with the Minimum Bid Price Listing Rule in the future or that our common stock will remain listed on NASDAQ.

Any delisting of our common stock from NASDAQ could adversely affect our ability to attract new investors, decrease the liquidity of our outstanding shares of common stock, reduce our flexibility to raise additional capital, reduce the price at which our common stock trades, and increase the transaction costs inherent in trading such shares with overall negative effects for our stockholders. In addition, the delisting of our common stock could deter broker-dealers from making a market in or otherwise seeking or generating interest in our common stock, and might deter certain institutions and persons from investing in our securities at all. Furthermore, the delisting of our common stock from NASDAQ would constitute a breach under certain of our financing agreements, including agreements governing our outstanding convertible indebtedness, which could result in an acceleration of such indebtedness. If such indebtedness is accelerated, it would generally also constitute an event of default under our other outstanding indebtedness, permitting acceleration of such other outstanding indebtedness as well. For these reasons and others, the delisting of our common stock from NASDAQ could materially adversely affect our business, financial condition and results of operations.

The concentration of our capital stock ownership with insiders will limit the ability of other stockholders to influence corporate matters and presents risks related to the operations of our significant stockholders.

Following this offering, the Company's significant stockholders will hold an aggregate total of 40.8% of the Company's total common shares outstanding, as follows: Koninklijke DSM N.V. (DSM) (17.3%), Foris (9.4%), Total S.A. (Total) (8.5%) and Vivo Capital LLC (Vivo) (5.6%). Furthermore, DSM, Foris, Total and Vivo each hold convertible preferred stock, convertible promissory notes and/or warrants, pursuant to which they may acquire additional shares of our common stock and thereby increase their ownership interest in our company. This significant concentration of share ownership may adversely affect the trading price of our common stock because investors often perceive disadvantages in owning stock in companies with stockholders with significant interests. Also, these stockholders, acting together, may be able to control or significantly influence our management and affairs and matters requiring stockholder approval, including the election of directors and the approval of significant corporate transactions, such as mergers, consolidations or the sale of all or substantially all of our assets, and may not act in the best interests of our other stockholders. Consequently, this concentration of ownership may have the effect of delaying or preventing a change of control, or a change in our management or board of directors, or discouraging a potential acquirer from making a tender offer or otherwise attempting to obtain control of our company, even if such actions would benefit our other stockholders.

The concentration of our capital stock ownership also presents risks related to the operations of our significant stockholders, including their international operations. For example, certain affiliates of Total that we do not control and that may be deemed to be our affiliates solely due to their control by Total may be deemed to have engaged in certain transactions or dealings with the government of Iran in 2017, for which Total has provided disclosure under Section 13(r) of the Securities Exchange Act of 1934. Such disclosure is set forth in Exhibit 99.1 to our annual report on Form 10-K for the year ended December 31, 2017 and is incorporated herein by reference. Disclosure of such activity, even if such activity is not subject to sanctions under applicable law, and any sanctions actually imposed on Total as a result of these activities or for other violations of applicable laws, such as anti-bribery laws, could harm our reputation and have a negative impact on our business.

In addition, certain of our significant stockholders are also commercial partners, including DSM and Total, and have various rights in connection with their security ownership in us. These stockholders may have interests that are different from those of our other stockholders, including with respect to our company's commercial transactions. While we have a related-party transactions policy that requires certain approvals of any transaction between our company and a significant stockholder or its affiliates, there can be no assurance that our significant stockholders will act in the best interests of our other stockholders, which could harm our results of operations and cause our stock price to decline.

The market price of our common stock could be negatively affected by future sales of our common stock.

If our existing stockholders, particularly our largest stockholders, our directors, their affiliates, or our executive officers, sell a substantial number of shares of our common stock in the public market, the market price of our common stock could decrease significantly. The perception in the public market that these stockholders might sell our common stock could also depress the market price of our common stock and could impair our future ability to obtain capital, especially through an offering of equity securities.

We have in place, or have agreed to file, registration statements for the resale of certain shares of our common stock held by, or issuable to, certain of our largest stockholders. All of our common stock sold pursuant to an offering covered by such registration statements will be freely transferable. In addition, shares of our common stock issued or issuable under our equity incentive plans have been registered on Form S-8 registration statements and may be freely sold in the public market upon issuance, except for shares held by affiliates who have certain restrictions on their ability to sell.

If securities or industry analysts do not publish or cease publishing research or reports about us, our business or our market, or if they change their recommendations regarding our stock adversely, our stock price and trading volume could decline.

The trading market for our common stock will be influenced by the research and reports that industry or securities analysts may publish about us, our business, our market or our competitors. If any of the analysts who cover us change their recommendation regarding our stock adversely, or provide more favorable relative recommendations about our competitors, our stock price would likely decline. If any analyst who may cover us were to cease coverage of our company or fail to regularly publish reports on us, we could lose visibility in the financial markets, which in turn could cause our stock price or trading volume to decline.

We do not expect to declare any dividends in the foreseeable future.

We do not anticipate declaring any cash dividends to holders of our common stock in the foreseeable future. In addition, certain of our equipment leases and credit facilities currently restrict our ability to pay dividends. Consequently, investors may need to rely on sales of their shares of our common stock after price appreciation, which may never occur, as the only way to realize any future gains on their investment. Investors seeking cash dividends should not purchase our common stock.

Anti-takeover provisions contained in our certificate of incorporation and bylaws, as well as provisions of Delaware law, could impair a takeover attempt.

Our certificate of incorporation and bylaws contain provisions that could delay or prevent a change in control of our company. These provisions could also make it more difficult for stockholders to nominate directors and take other corporate actions. These provisions include:

- a staggered board of directors;
- authorizing the board of directors to issue, without stockholder approval, preferred stock with rights senior to those of our common stock;
- authorizing the board of directors to amend our bylaws, to increase the number of directors and to fill board vacancies until the end of the term of the applicable class of directors;
- prohibiting stockholder action by written consent;
- limiting the liability of, and providing indemnification to, our directors and officers;
- eliminating the ability of our stockholders to call special meetings; and
- requiring advance notification of stockholder nominations and proposals.

Section 203 of the Delaware General Corporation Law prohibits, subject to some exceptions, “business combinations” between a Delaware corporation and an “interested stockholder,” which is generally defined as a stockholder who becomes a beneficial owner of 15% or more of a Delaware corporation’s voting stock, for a three-year period following the date that the stockholder became an interested stockholder. We have agreed to opt out of Section 203 through our certificate of incorporation, but our certificate of incorporation contains substantially similar protections to our company and stockholders as those afforded under Section 203, except that we have agreed with Total that it and its affiliates will not be deemed to be “interested stockholders” under such protections.

In addition, we have an agreement with Total which provides that, so long as Total holds at least 10% of our voting securities, we must inform Total of any offer to acquire us or any decision of our board of directors to sell our company, and we must provide Total with information about the contemplated transaction. In such events, Total will have an exclusive negotiating period of fifteen business days in the event the board of directors authorizes us to solicit offers to buy our company, or five business days in the event that we receive an unsolicited offer to purchase us. This exclusive negotiation period will be followed by an additional restricted negotiation period of ten business days, during which we are obligated to continue to negotiate with Total and will be prohibited from entering into an agreement with any other potential acquirer.

These and other provisions in our certificate of incorporation, our bylaws and in our agreements with Total could discourage potential takeover attempts, reduce the price that investors are willing to pay in the future for shares of our common stock and result in the market price of our common stock being lower than it would be without these provisions.

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USE OF PROCEEDS

The proceeds from the sale of the shares offered pursuant to this prospectus supplement are solely for the account of the selling stockholder. Accordingly, we will not receive any of the proceeds from the sale of the shares offered by this prospectus supplement. However, we expect to receive proceeds of approximately $21.5 million from the exercise of the selling stockholder's Cash Warrant and Dilution Warrant. We also expect to receive proceeds of approximately $24.5 million from the exercise of the Vivo Warrants, assuming the underwriter exercises its option to purchase additional shares in full, as described in the Vivo Prospectus Supplement. We intend to use such proceeds for general corporate purposes. See "Selling Stockholder" and "Underwriting" below.

SELLING STOCKHOLDER

The 4,877,386 shares of common stock covered by this prospectus supplement (the "Shares") consist of shares issuable to the selling stockholder upon exercise of its Cash Warrant.

The table below presents information regarding the selling stockholder and the number of Shares the selling stockholder is offering under this prospectus supplement. The table is based on deemed share ownership as of July 31, 2018, after giving pro forma effect to (i) the proposed amendments to the selling stockholder's Warrants to remove the Beneficial Ownership Limitation (the "Warrant Amendments"), (ii) the assumed exercise for cash of the selling stockholder's Dilution Warrant and (iii) the exercise of the selling stockholder's Cash Warrant, the cancellation of the selling stockholder's Dilution Warrant after it is exercised in full and the issuance of the New Warrant, in each case pursuant to the Exercise Agreement (see above under "Summary—Warrants and Exercise Agreements"). We have prepared these tables based on information furnished to us by or on behalf of the selling stockholder.

Under the rules of the SEC, beneficial ownership includes shares over which the indicated beneficial owner exercises voting or investment power. Beneficial ownership is determined under Section 13(d) of the Securities Exchange Act of 1934, (the "Exchange Act"), and generally includes voting or investment power with respect to securities, including any securities that grant the selling stockholder the right to acquire shares of our common stock within 60 days of July 31, 2018. These shares are deemed to be outstanding by the person holding those securities for the purpose of computing the percentage ownership of that person, but they are not treated as outstanding for the purpose of computing the percentage ownership of any other person. The table below shows beneficial ownership as of July 31, 2018, as determined in accordance with Section 13(d) of the Exchange Act, after giving pro forma effect to (i) the Warrant Amendments, (ii) the assumed exercise for cash of the selling stockholder's Dilution Warrant and (iii) the exercise of the selling stockholder's Cash Warrant, the cancellation of the selling stockholder's Dilution Warrant after it is exercised in full and the issuance of the New Warrant, in each case pursuant to the Exercise Agreement. The percentage ownership data is based on 50,366,128 shares of our common stock issued and outstanding as of July 31, 2018 (as reflected in the records of our stock transfer agent).

Unless otherwise indicated in the footnotes below, we believe that the selling stockholder has sole voting and investment power with respect to all shares beneficially owned by it. Since the date on which it provided us with the information below, the selling stockholder may have sold, transferred or otherwise disposed of some or all of their shares in transactions exempt from the registration requirements of the Securities Act of 1933, as amended (the "Securities Act").

The number of shares in the columns entitled "Shares Offered Hereby" represent all of the Shares that the selling stockholder may offer under this prospectus supplement and may be sold by the selling stockholder, by those persons or entities to whom they transfer, donate, devise, pledge or distribute the Shares or by other successors in interest. The information regarding shares beneficially owned after this offering assumes the sale of all Shares offered by the

selling stockholder hereunder, the completion of the concurrent sale of shares by Vivo and related transactions as described in the Vivo Prospectus Supplement.

The selling stockholder has not held any position or office or had any other material relationship with us or any of our predecessors or affiliates within the past three years, other than: (i) the acquisition and beneficial ownership of the shares described in the tables below or other of our debt or equity securities, and (ii) Foris Ventures, LLC is an entity indirectly owned by our director John Doerr.

Name of Selling Stockholder	**Shares Beneficially Owned before Offering**		**Shares Offered Hereby**	**Shares Beneficially Owned After Offering**	
	Number	**Percentage (%)**	**Number**	**Number**	**Percentage (%)**
Foris Ventures, LLC*	16,900,997(1)	25.01%	4,877,386	12,023,611(2)	17.79%

* As of July 31, 2018, the shares of Series B Preferred Stock held by Foris were convertible into 1,012,071 shares of common stock (including shares of common stock issuable as payment of the Make-Whole Payment, assuming that the Make-Whole Payment is made in common stock). Such shares of common stock issuable upon conversion of the Series B Preferred stock are not included in this table due to the Beneficial Ownership Limitation. For informational purposes, this table includes the New Warrants, though the New Warrants are not considered to be beneficially owned under Section 13(d) of the Exchange Act because they are subject to a lock-up agreement that prohibits their exercise for 180 days following the date of this prospectus supplement. Foris is indirectly owned by director John Doerr, who shares voting and investment control over the shares held by such entity. The address for Foris Ventures, LLC is c/o JEMA Management LLC, 751 Laurel St. #717, San Carlos, California 94070.

(1) Includes (i) 11,718,090 shares of common stock held by Foris, (ii) 4,877,386 shares issuable upon exercise of the New Warrant, (iii) 89,037 shares issuable upon conversion of certain convertible promissory notes held by Foris and (iv) 216,484 shares issuable upon exercise of certain other warrants held by Foris.

(2) Includes (i) 6,840,704 shares of common stock held by Foris, (ii) 4,877,386 shares issuable upon exercise of the New Warrant, (iii) 89,037 shares issuable upon conversion of certain convertible promissory notes held by Foris and (iv) 216,484 shares issuable upon exercise of certain other warrants held by Foris.

UNDERWRITING

The Company, the selling stockholder, Vivo, and B. Riley FBR, Inc., which we refer to as the underwriter, have entered into an underwriting agreement with respect to the shares being offered. Subject to certain conditions, the underwriter has agreed to purchase 4,877,386 shares of common stock from the selling stockholder and has also agreed to purchase up to 3,924,884 shares of common stock from Vivo, assuming the underwriter exercises its option to purchase additional shares in full, as detailed in the Vivo Prospectus Supplement.

The underwriting agreement provides that the obligations of the underwriter to purchase the aggregate number of sh