

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**
Washington, D.C. 20549

FORM 10-Q

QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the quarterly period ended September 30, 2020.

OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from _____ to _____

Commission File Number: 001-32188

ORAGENICS, INC.

(Exact name of registrant as specified in its charter)

FLORIDA
(State or other jurisdiction of
incorporation or organization)

59-3410522
(IRS Employer
Identification No.)

4902 Eisenhower Blvd., Suite 125
Tampa, Florida 33634
(Address of principal executive offices)

813-286-7900
(Issuer's telephone number)

Securities registered pursuant to Section 12(b) of the Act:

<u>Title of each class</u>	<u>Trading Symbol(s)</u>	<u>Name of each exchange on which registered</u>
Common Stock	OGEN	NYSE American

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities and Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§ 232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes No

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

Large accelerated filer	<input type="checkbox"/>	Accelerated filer	<input type="checkbox"/>
Non-accelerated filer	<input checked="" type="checkbox"/>	Smaller reporting company	<input checked="" type="checkbox"/>
		Emerging growth company	<input type="checkbox"/>

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes No

Indicate the number of shares outstanding of each of the issuer's classes of common equity, as of the latest practicable date:

As of November 6, 2020, there were 61,004,917 shares of Common Stock, \$.001 par value, outstanding.

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PART I – FINANCIAL INFORMATION

ITEM 1. FINANCIAL STATEMENTS

Oragenics, Inc.

Consolidated Balance Sheets

	<u>September 30, 2020</u>	<u>December 31, 2019</u>
	(Unaudited)	
Assets		
Current assets:		
Cash and cash equivalents	\$ 10,043,613	\$ 18,267,994
Prepaid expenses and other current assets	485,655	570,071
Total current assets	<u>10,529,268</u>	<u>18,838,065</u>
Property and equipment, net	55,026	91,968
Operating lease right-of-use assets	697,910	822,684
Total assets	<u>\$ 11,282,204</u>	<u>\$ 19,752,717</u>
Liabilities and Shareholders' Equity		
Current liabilities:		
Accounts payable and accrued expenses	\$ 456,794	\$ 1,541,415
Short-term notes payable	472,148	143,864
Operating lease liabilities	173,536	165,096
Total current liabilities	<u>1,102,478</u>	<u>1,850,375</u>
Long-term liabilities:		
Operating lease liabilities	539,381	670,690
Total long-term liabilities	<u>539,381</u>	<u>670,690</u>
Shareholders' equity:		
Preferred stock, no par value; 50,000,000 shares authorized; 9,417,000 and 9,417,000 Series A shares, 6,600,000 and 6,600,000 Series B shares, 133.483 and 113.941 Series C shares issued and outstanding at September 30, 2020 and December 31, 2019, respectively	7,174,854	6,513,396
Common stock, \$0.001 par value; 200,000,000 shares authorized; 61,004,917 and 46,124,803 shares issued and outstanding at September 30, 2020 and December 31, 2019, respectively	61,005	46,125
Additional paid-in capital	152,440,386	138,024,957
Accumulated deficit	(150,035,900)	(127,352,826)
Total shareholders' equity	<u>9,640,345</u>	<u>17,231,652</u>
Total liabilities and shareholders' equity	<u>\$ 11,282,204</u>	<u>\$ 19,752,717</u>

See accompanying notes.

Oragenics, Inc.

Consolidated Statements of Operations
(Unaudited)

	For the Three Months Ended September 30,		For the Nine Months Ended September 30,	
	2020	2019	2020	2019
Operating expenses:				
Research and development	\$ 3,498,361	\$ 3,067,612	\$ 18,755,013	\$ 9,360,520
General and administrative	1,010,006	852,841	3,337,422	2,858,997
Total operating expenses	4,508,367	3,920,453	22,092,435	12,219,517
Loss from operations	(4,508,367)	(3,920,453)	(22,092,435)	(12,219,517)
Other income (expense):				
Interest income	16,292	86,705	77,302	256,222
Interest expense	(3,885)	(2,501)	(6,478)	(4,531)
Local business tax	(600)	(300)	(1,800)	(900)
Miscellaneous income	—	—	1,795	—
Total other income, net	11,807	83,904	70,819	250,791
Loss before income taxes	(4,496,560)	(3,836,549)	(22,021,616)	(11,968,726)
Income tax benefit	—	—	—	—
Net loss	\$ (4,496,560)	\$ (3,836,549)	\$ (22,021,616)	\$ (11,968,726)
Basic and diluted net loss per share	\$ (0.08)	\$ (0.08)	\$ (0.42)	\$ (0.29)
Shares used to compute basic and diluted net loss per share	59,670,038	46,124,803	52,706,277	40,989,592

See accompanying notes.

Oragenics, Inc.

Consolidated Statements of Changes in Shareholders' Equity
(Unaudited)

	Common Stock		Preferred Stock		Additional Paid In Capital	Accumulated Deficit	Total Shareholders' Equity
	Shares	Amount	Shares	Amount			
Balances at December 31, 2019	<u>46,124,803</u>	<u>\$ 46,125</u>	<u>16,017,113.941</u>	<u>\$ 6,513,396</u>	<u>\$ 138,024,957</u>	<u>\$ (127,352,826)</u>	<u>\$ 17,231,652</u>
Compensation expense relating to option issuances	—	—	—	—	865,110	—	865,110
Series C dividend	—	—	19,542	661,458	—	(661,458)	—
Net loss	—	—	—	—	—	(5,187,760)	(5,187,760)
Balances at March 31, 2020	<u>46,124,803</u>	<u>\$ 46,125</u>	<u>16,017,133.483</u>	<u>\$ 7,174,854</u>	<u>\$ 138,890,067</u>	<u>\$ (133,202,044)</u>	<u>\$ 12,909,002</u>
Compensation expense relating to option issuances	—	—	—	—	157,145	—	157,145
Issuance of common stock from warrant exercise	38,000	38	—	—	28,462	—	28,500
Issuance of common stock and warrants for the acquisition of Noachis Terra	9,200,000	9,200	—	—	8,021,499	—	8,030,699
Net loss	—	—	—	—	—	(12,337,296)	(12,337,296)
Balances at June 30, 2020	<u>55,362,803</u>	<u>\$ 55,363</u>	<u>16,017,133.483</u>	<u>\$ 7,174,854</u>	<u>\$ 147,097,173</u>	<u>\$ (145,539,340)</u>	<u>\$ 8,788,050</u>
Compensation expense relating to option issuances	—	—	—	—	194,953	—	194,953
Issuance of common stock from warrant exercise	5,642,114	5,642	—	—	5,148,260	—	5,153,902
Net loss	—	—	—	—	—	(4,496,560)	(4,496,560)
Balances at September 30, 2020	<u>61,004,917</u>	<u>\$ 61,005</u>	<u>16,017,133.483</u>	<u>\$ 7,174,854</u>	<u>\$ 152,440,386</u>	<u>\$ (150,035,900)</u>	<u>\$ 9,640,345</u>
	Common Stock		Preferred Stock		Additional Paid In Capital	Accumulated Deficit	Total Shareholders' Equity
	Shares	Amount	Shares	Amount			
Balances at December 31, 2018	<u>29,433,135</u>	<u>\$ 29,433</u>	<u>16,017,101.733</u>	<u>\$ 6,100,182</u>	<u>\$ 126,125,976</u>	<u>\$ (111,373,608)</u>	<u>\$ 20,881,983</u>
Compensation expense relating to option issuances	—	—	—	—	145,829	—	145,829
Issuance of common stock - shelf takedown, net of expenses	16,666,668	16,667	—	—	11,399,009	—	11,415,676
Issuance of common stock in exchange for services	12,500	12	—	—	5,988	—	6,000
Series C dividend	—	—	12,208	413,214	—	(413,214)	—
Net loss	—	—	—	—	—	(3,325,717)	(3,325,717)
Balances at March 31, 2019	<u>46,112,303</u>	<u>\$ 46,112</u>	<u>16,017,113.941</u>	<u>\$ 6,513,396</u>	<u>\$ 137,676,802</u>	<u>\$ (115,112,539)</u>	<u>\$ 29,123,771</u>
Compensation expense relating to option issuances	—	—	—	—	164,588	—	164,588
Issuance of common stock - shelf takedown, net of expenses	—	—	—	—	(65,000)	—	(65,000)
Issuance of common stock in exchange for services	12,500	13	—	—	5,988	—	6,001
Net loss	—	—	—	—	—	(4,806,460)	(4,806,460)
Balances at June 30, 2019	<u>46,124,803</u>	<u>\$ 46,125</u>	<u>16,017,113.941</u>	<u>\$ 6,513,396</u>	<u>\$ 137,782,378</u>	<u>\$ (119,918,999)</u>	<u>\$ 24,422,900</u>
Compensation expense relating to option issuances	—	—	—	—	232,175	—	232,175
Net loss	—	—	—	—	—	(3,836,549)	(3,836,549)
Balances at September 30, 2019	<u>46,124,803</u>	<u>\$ 46,125</u>	<u>16,017,113.941</u>	<u>\$ 6,513,396</u>	<u>\$ 138,014,553</u>	<u>\$ (123,755,548)</u>	<u>\$ 20,818,526</u>

See accompanying notes.

Oragenics, Inc.

Consolidated Statements of Cash Flows
(Unaudited)

	For the Nine Months Ended September 30,	
	2020	2019
Cash flows from operating activities:		
Net loss	\$ (22,021,616)	\$ (11,968,726)
Adjustments to reconcile net loss to net cash used in operating activities:		
Depreciation and amortization	38,847	44,344
Stock-based compensation expense	1,217,208	542,592
Stock issued in exchange for services	—	12,001
Stock issued for purchase of Noachis Terra	8,030,699	—
Changes in operating assets and liabilities:		
Prepaid expenses and other current assets	498,200	1,442,087
Accounts payable and accrued expenses	(1,084,621)	851,374
Net cash used in operating activities	<u>(13,321,283)</u>	<u>(9,076,328)</u>
Cash flows from investing activities:		
Purchase of property and equipment	—	(11,354)
Net cash used in investing activities	<u>—</u>	<u>(11,354)</u>
Cash flows from financing activities:		
Borrowings under short-term notes payable	132,088	—
Payments on short-term notes payable	(217,588)	(179,371)
Proceeds from issuance of common stock for warrant exercise	5,182,402	—
Net proceeds from issuance of common stock and warrants	—	11,350,676
Net cash provided by financing activities	<u>5,096,902</u>	<u>11,171,305</u>
Net (decrease) increase in cash and cash equivalents	<u>(8,224,381)</u>	<u>2,083,623</u>
Cash and cash equivalents at beginning of period	18,267,994	20,208,301
Cash and cash equivalents at end of period	<u>\$ 10,043,613</u>	<u>\$ 22,291,924</u>
<i>Supplemental disclosure of cash flow information:</i>		
Interest paid	<u>\$ 4,245</u>	<u>\$ 4,531</u>
Non-cash investing and financing activities:		
Borrowings under short term notes payable for prepaid expense	<u>\$ 413,784</u>	<u>\$ 272,577</u>
Stock dividend on Series C preferred stock	<u>\$ 661,458</u>	<u>\$ 413,215</u>
Par value of common stock issued in exchange for services	<u>\$ —</u>	<u>\$ 25</u>

See accompanying notes.

Oragenics, Inc.

**Notes to Consolidated Financial Statements
(Unaudited)**

1. Organization

Oragenics, Inc. (formerly known as Oragen, Inc.) (the “Company” or “we”) was incorporated in November, 1996; however, operating activity did not commence until 1999. We are focused on the creation of the TerraCoV2 immunization product candidate to combat the novel coronavirus pandemic and the further development of effective treatments for novel antibiotics against infectious disease.

2. Basis of Presentation

The accompanying unaudited interim consolidated financial statements as of September 30, 2020 and December 31, 2019 (audited) and three and nine months ended September 30, 2020 and 2019 have been prepared in accordance with accounting principles generally accepted in the United States of America (“US GAAP”) for interim consolidated financial information and with the instructions to Form 10-Q and Article 8 of Regulation S-X. Accordingly, they do not include all of the information and footnotes required by US GAAP for complete consolidated financial statements. In the opinion of management, the accompanying consolidated financial statements include all adjustments, consisting of normal recurring accruals, necessary for a fair presentation of the financial condition, results of operations and cash flows for the periods presented. The results of operations for the interim period ending September 30, 2020 are not necessarily indicative of the results that may be expected for the year ending December 31, 2020 or any future period.

These consolidated financial statements should be read in conjunction with the audited financial statements and notes thereto for the year ended December 31, 2019, which are included in our Annual Report on Form 10-K filed with the Securities and Exchange Commission on March 4, 2020. The Company has incurred recurring losses and negative cash flows from operations since inception. To date, the Company has not generated significant revenues from operations. The Company incurred a net loss of \$22,021,616 and used cash of \$13,321,283 in its operating activities during the nine months ended September 30, 2020. As of September 30, 2020, the Company had an accumulated deficit of \$150,035,900.

The Company expects to incur substantial expenditures to further develop its technologies. The Company believes the working capital at September 30, 2020, together with the proceeds from recent warrant exercises, will be sufficient to meet the business objectives as presently structured into the first quarter of 2021. As such, there is substantial doubt that we can continue as a going concern beyond that date.

The Company’s ability to continue operations after its current cash resources are exhausted depends on its ability to obtain additional financing or achieve profitable operations, as to which no assurances can be given. Cash requirements may vary materially from those now planned because of changes in the Company’s focus and direction of its research and development programs, competitive and technical advances, or other developments. Additional financing will be required to continue operations after the Company exhausts its current cash resources and to continue its long-term plans for clinical trials and new product development. There can be no assurance that any such financing can be realized by the Company, or if realized, what the terms thereof may be, or that any amount that the Company is able to raise will be adequate to support the Company’s working capital requirements until it achieves profitable operations.

The Company intends to seek additional funding through sublicensing arrangements, joint venturing or partnering, sales of rights to technology, government grants and public or private financings. The Company’s future success depends on its ability to raise capital and ultimately generate revenue and attain profitability. The Company cannot be certain that additional capital, whether through selling additional debt or equity securities or obtaining a line of credit or other loan, will be available to it or, if available, will be on terms acceptable to the Company. If the Company issues additional securities to raise funds, these securities may have rights, preferences, or privileges senior to those of its common stock, and the Company’s current shareholders may experience dilution. If the Company is unable to obtain funds when needed or on acceptable terms, the Company may be required to curtail its current development programs, cut operating costs and forego future development and other opportunities.

3. Significant Accounting Policies

Basis of Consolidation

The consolidated financial statements include the accounts of Oragenics, Inc. and our wholly-owned subsidiary Noachis Terra, Inc. All intercompany balances and transactions have been eliminated.

Recently Issued Accounting Pronouncements

There are no additional accounting pronouncements issued or effective during the three and nine months ended September 30, 2020, that have had, or are expected to have, a material impact on our consolidated financial statements.

Use of Estimates

The preparation of consolidated financial statements in conformity with US GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the consolidated financial statements, as well as the reported amounts of expenses during the reporting period. Actual results could differ from those estimates. The principal areas of estimation reflected in the consolidated financial statements are contingent consideration, stock-based compensation, valuation of warrants, and income tax valuation allowance.

Stock-Based Payment Arrangements

Generally, all forms of stock-based payments, including stock option grants, warrants, and restricted stock grants are measured at their fair value on the awards' grant date using a Black-Scholes pricing model. Stock-based compensation awards issued to non-employees for services rendered are recorded at the fair value of the stock-based payment. The expense resulting from stock-based payments are recorded in research and development expense or general and administrative expense in the consolidated statement of operations, depending on the nature of the services provided. Stock-based payment expense is recorded over the requisite service period in which the grantee provides services to us. To the extent the stock option grants, warrants, or restricted stock grants do not vest at the grant date they are subject to forfeiture.

Stock-Based Compensation

US GAAP requires all stock-based payments to employees, including grants of employee stock options, to be recognized in the consolidated financial statements based on their fair values as of the grant date. Stock-based compensation expense is recorded over the requisite service period in which the grantee provides services to us, to the extent the options do not vest at the grant date and are subject to forfeiture. For performance-based awards that do not include market-based conditions, we record share-based compensation expense only when the performance-based milestone is deemed probable of achievement. We utilize both quantitative and qualitative criteria to judge whether milestones are probable of achievement. For awards with market-based performance conditions, we recognize the grant-date fair value of the award over the derived service period regardless of whether the underlying performance condition is met. In connection with adopting ASU 2016-09, the Company made an accounting policy election to account for forfeitures in compensation expense as they occur.

Warrants

The Company used the Black Scholes Option Pricing Model in calculating the relative fair value of any warrants that have been issued.

Net Loss Per Share

During all periods presented, the Company had securities outstanding that could potentially dilute basic earnings per share in the future but were excluded from the computation of diluted net loss per share, as their effect would have been antidilutive because the Company reported a net loss for all periods presented. Basic and diluted net loss per share amounts are the same for the periods presented. Net loss per share is computed using the weighted average number of shares of common stock outstanding.

Concentrations

Financial instruments which potentially subject the Company to concentrations of credit risk consist principally of cash and cash equivalents. The Company maintains cash accounts in commercial banks, which may, at times, exceed federally insured limits. The Company has not experienced any losses in such accounts. The Company believes it is not exposed to any significant credit risk on cash and cash equivalents. As of September 30, 2020, the uninsured portion of this balance was \$9,793,613. As of December 31, 2019, the uninsured portion of this balance was \$18,017,994.

4. Acquisition

On May 1, 2020, the Company entered into a Stock Purchase Agreement with the sole shareholder of Noachis Terra Inc. (“NTI”), pursuant to which the Company acquired one hundred percent (100%) of the total issued and outstanding common stock of NTI (the “Transaction”). In exchange, the shareholder received the following: (i) cash consideration equal to \$1,925,000, of which approximately \$500,000 has been applied to extinguish NTI’s pre-Transaction liabilities (a portion of which were due to the shareholder); (ii) 9,200,000 restricted shares of the Company’s common stock, the sale of which shares cannot occur until the earlier of (a) the Company’s share price closing above \$2.50 per share, (b) the Company’s announcement that it has received funding from the Biomedical Advanced Research and Development Authority (“BARDA”), NIH or any other Governmental Authority to fully fund the development program for SARS-CoV-2 vaccine, or (c) six months from the Transaction’s closing; and (iii) warrants to purchase 9,200,000 shares of the Company’s common stock, which warrants carry an exercise price of \$1.25 per share, a five-year term, and may not be exercised until the Company has obtained shareholder approval with respect to the exercisability of the warrants pursuant to the New York Stock Exchange American (“NYSE”) requirements. At the Company’s Annual Meeting of Shareholders held on August 21, 2020, the shareholders approved the issuance of up to 9,200,000 shares of common stock upon the exercise of the warrants.

The warrants may not be exercised until the earlier of (a) notification of BARDA’s willingness to fund development of the TerraCoV2 vaccine product candidate, (b) Phase 1 clinical results demonstrating activity, or (c) the first anniversary of the Transaction’s closing. The Company is also obligated to pay the former sole shareholder of NTI contingent consideration based upon the exercise of certain of the Company’s outstanding warrants as follows: (i) twenty percent (20%) of the cash proceeds received by the Company upon exercise of the Company’s warrants carrying an exercise price of \$0.75 and \$0.90 and (ii) forty-five percent (45%) of the cash proceeds received by the Company upon exercise of the Company’s warrants carrying an exercise price of \$1.00, in each case, for so long as the warrants remain outstanding.

At the closing of the Transaction, the aggregate fair value of purchase consideration was \$9,955,699, consisting of \$1,925,000 of cash, the Company’s common stock (9,200,000 shares), and warrants to purchase the Company’s common stock, as follows:

	Fair Value
Cash - Initial Cash Payment	\$ 1,925,000
Equity - Common Stock	4,627,600
Equity - Warrants	3,403,099
Total fair value of consideration	<u>\$ 9,955,699</u>

The Company determined that the acquisition should be accounted for as an asset purchase. The asset which was acquired was in-process research and development which does not have any alternative uses and therefore the aggregate fair value of the purchase price being recorded in research and development expenses in 2020.

5. Stock-based Compensation

The Company recognized stock-based compensation on all employee and non-employee awards as follows:

	For the Three Months Ended September 30, 2020	For the Three Months Ended September 30, 2019	For the Nine Months Ended September 30, 2020	For the Nine Months Ended September 30, 2019
Research and development	\$ 46,584	\$ 20,416	\$ 194,431	\$ 92,503
General and administrative	148,369	211,759	1,022,777	450,089
Total Stock-based compensation	<u>\$ 194,953</u>	<u>\$ 232,175</u>	<u>\$ 1,217,208</u>	<u>\$ 542,592</u>

The following table summarizes the stock option activity during the nine months ended September 30, 2020:

	Number of Shares	Weighted Average Exercise Price	Weighted Average Remaining Contractual Term (In Years)	Aggregate Intrinsic Value ⁽¹⁾
Outstanding at December 31, 2019	2,486,365	\$ 1.47	8.67	\$ 22,229
Granted	3,315,984	\$ 0.50	—	\$ —
Exercised	—	\$ —	—	\$ —
Forfeited	(1,000)	\$ 100.00	—	\$ —
Outstanding at September 30, 2020	<u>5,801,349</u>	<u>\$ 0.90</u>	<u>8.77</u>	<u>\$ 434,243</u>
Exercisable at September 30, 2020	4,086,855	\$ 1.06	8.52	\$ 200,871

(1) The aggregate intrinsic value is calculated as the difference between the exercise price of the underlying stock option awards and the closing market price of our common stock as of December 31, 2019 and September 30, 2020, respectively.

Total unrecognized compensation cost related to unvested stock options was \$490,456 as of September 30, 2020 and is expected to be recognized over a weighted-average period of less than two years.

As of September 30, 2020, 2,207,901 shares of common stock are available for future awards under the 2012 Equity Incentive Plan (the “Plan”).

Each executive officer and non-employee director receiving equity-based awards is subject to a minimum dollar value stock ownership holding requirement with respect to the awards received as well as all prior equity awards under the Plan which requirements are intended to align the ability to sell shares with the performance of the Company’s stock price. The executive officer recipients each have a minimum dollar value stock ownership holding requirement threshold equal to two times (2x) their then base salaries below which dollar threshold they would be precluded from selling any shares of Company stock obtained from the Company under its Plan. Also, the non-employee directors are each subject to a minimum dollar value stock ownership holding requirement threshold equal to six times the annual Board retainer (\$270,000) below which dollar threshold they would be precluded from selling shares of Company stock acquired from the Company under its Plan.

6. Warrants

On May 1, 2020, the Company issued warrants to the former sole shareholder of Noachis Terra Inc. (“NTI”) in connection with the Company’s acquisition of NTI (the “NTI Warrants”). The NTI Warrants are exercisable at \$1.25 per share, and have a five-year term. The NTI Warrants may not be exercised until the Company has obtained shareholder approval with respect to the exercisability of the NTI Warrants pursuant to the New York Stock Exchange American (“NYSE”) requirements. In addition, the NTI Warrants may not be exercised until the earlier of (a) notification of BARDA’s willingness to fund development of the TerraCoV2 vaccine product candidate, (b) Phase 1 clinical results demonstrating activity, or (c) the first anniversary of the issuance of the NTI Warrants. See Note 4. Acquisition.

At the Company’s Annual Meeting of Shareholders held on August 21, 2020, the shareholders approved the issuance of up to 9,200,000 shares of common stock upon the exercise of the NTI Warrants.

In addition to the above consideration, Mr. Hernandez is entitled to receive contingent consideration based upon the exercise of certain of the Company’s outstanding warrants as follows: (i) twenty percent (20%) of the cash proceeds received by the Company upon exercise of the Company’s warrants carrying an exercise price of \$0.75 and \$0.90 and (ii) forty-five percent (45%) of the cash proceeds received by the Company upon exercise of the Company’s warrants carrying an exercise price of \$1.00, in each case, for so long as the warrants remain outstanding. The Company’s previously issued warrants carrying an exercise price of \$0.75 have expired by their terms. As a result, no additional consideration will be due to the former sole shareholder of NTI relating to these warrants. See Note 8. Commitments and Contingencies.

On March 25, 2019, the Company announced the closing of an underwritten public offering for gross proceeds of approximately \$12.5 million, which included the partial exercise of the underwriter’s over-allotment option to purchase additional shares and warrants, prior to deducting underwriting discounts and commissions and offering expenses payable by the Company.

The offering was comprised of 16,666,668 shares of common stock, short-term warrants to purchase up to 8,333,334 shares of common stock, and long-term warrants to purchase up to 8,333,334 shares of common stock, at a price to the public of \$0.75 per share and accompanying warrants. The Company granted the underwriter a 30-day option to purchase up to 2,500,000 additional shares of common stock and/or short-term warrants to purchase 1,250,000 shares of common stock and long-term warrants to purchase 1,250,000 shares of common stock of the Company at the public offering price, less underwriting discounts and commissions. The underwriter exercised its option to purchase the short-term warrants to purchase 1,250,000 shares of common stock and long-term warrants to purchase 1,250,000 shares of common stock effective as of the closing.

Each short-term warrant had an exercise price of \$0.75 per share of common stock, is immediately exercisable, and were subject to expiration on the earlier of (1) the eighteen-month anniversary of the date of issuance and (2) twenty-one trading days following the Company's release of top-line data related to its Phase 2 double blind, placebo controlled clinical trial of AG013. Each long-term warrant has an exercise price of \$0.90 per share of common stock, is immediately exercisable and will expire five years following the date of issuance.

On April 15, 2020, 38,000 of the short-term warrants were exercised generating \$28,500 in gross proceeds to the Company. On April 15, 2020, the Company announced the top-line data related to its Phase 2 double blind, placebo controlled clinical trial of AG013. As a result, 9,545,334 of the short-term warrants expired by their terms on May 14, 2020. As of September 30, 2020, there were no short-term warrants outstanding.

During the three month period ending September 30, 2020, the Company issued an additional 5,642,114 shares of common stock as a result of the exercise of certain outstanding warrants as follows: (i) an additional 760,000 warrants of the Company's previously reported remaining outstanding warrants to acquire 4,294,500 shares of Common Stock at an exercise price of \$1.00 per share issued in connection with its July 2018 public offering (the "2018 Warrants"), were exercised and (ii) 4,882,114 warrants of the Company's previously reported outstanding warrants to acquire 9,583,334 shares of Common Stock at an exercise price of \$0.90 per share issued in connection with its March 2019 public offering (the "2019 Warrants"), were exercised (collectively the "Warrant Exercises"). The Warrant Exercises provided aggregate gross proceeds to the Company of \$5,153,902.

A summary of warrant activity for the year ended December 31, 2019 and the nine months ended September 30, 2020 is as follows:

	Warrants	Weighted Average Price
Balance - December 31, 2018	7,371,925	\$ 1.74
Granted	19,166,668	0.83
Exercised	—	—
Expired	—	—
Balance - December 31, 2019	26,538,593	1.08
Granted	9,200,000	1.25
Exercised	(5,680,114)	0.91
Expired	(9,545,334)	0.75
Balance - September 30, 2020	20,513,145	\$ 1.36

The warrants outstanding as of September 30, 2020 are as follows:

Exercise Price	Warrants Outstanding	Expiration Date
\$ 3.10	48,387	9/19/2022
\$ 2.00	900,000	4/10/2023
\$ 3.10	462,106	5/10/2024
\$ 3.10	602,414	7/25/2024
\$ 3.10	1,064,518	11/8/2024
\$ 1.00	3,534,500	7/17/2025
\$ 0.90	4,701,220	3/25/2024
\$ 1.25	9,200,000	5/1/2025
	20,513,145	

All outstanding warrants are classified as equity on the Company's Consolidated Balance Sheets.

7. Short-Term Notes Payable

As of September 30, 2020, and December 31, 2019, the Company had \$472,148 and \$143,864, respectively, in short-term notes payable for the financing of various insurance policies and for the financing of certain expenses covered under the Paycheck Protection Program.

Paycheck Protection Program

On May 5, 2020, the Company received loan proceeds in the amount of \$132,088 under the Paycheck Protection Program (the “PPP”). The PPP, established by the Coronavirus Aid, Relief and Economic Security Act (“CARES Act”) administered by the Small Business Administration, provides for loans to qualifying businesses for amounts up to 2.5 times the average monthly payroll expenses of the qualifying business. The loan and accrued interest are forgivable after an initial period of eight weeks (extended to twenty-four weeks on June 5, 2020) as long as the Company uses the proceeds for eligible purposes, including payroll, benefits, rent, and utilities and maintains its payroll levels. The amount of the loan forgiveness will be reduced if the Company terminates employees or reduces salaries during the twenty-four-week period.

The unforgiven portion of the PPP loan is payable over two years at an interest rate of 1%, with deferral of payments over the first six months. The Company believes that its use of the loan proceeds will meet the conditions for forgiveness of the loan, however no assurance can be provided that action will not be taken that could cause the Company to be ineligible for forgiveness of the loan, in whole or in part.

Products Liability Insurance

On March 10, 2019, the Company entered into a short-term note payable for \$17,688 bearing interest at 5.69% per annum to finance the product liability insurance. Principal and interest payments on this note began April 10, 2019 and are made evenly based on a straight-line amortization over an 11-month period with the final payment being made on February 14, 2020.

Directors' and Officers' Insurance

On July 24, 2020, the Company entered into a short-term note payable for \$413,784 bearing interest at 5.39% to finance a portion of the directors' and officers' liability insurance and employment practices liability insurance premiums. Principal and interest payments on this note began August 24, 2020 and are made evenly based on a straight-line amortization over an 11-month period with the final payment being due on June 24, 2021.

On August 7, 2019 the Company entered into a short-term note payable for \$254,889 bearing interest at 5.74% to finance a portion of the directors' and officers' liability insurance and employment practices liability insurance premiums. Principal and interest payments on this note began August 24, 2019 and were made evenly based on a straight-line amortization over an 11-month period with the final payment being made on June 22, 2020.

8. Commitments and Contingencies

Additional Consideration-NTI Acquisition. In connection with the Company's acquisition of NTI, the Company is obligated to pay the former sole shareholder of NTI contingent consideration based upon the exercise of certain of the Company's outstanding warrants as follows: (i) twenty percent (20%) of the cash proceeds received by the Company upon exercise of the Company's warrants carrying an exercise price of \$0.75 and \$0.90 and (ii) forty-five percent (45%) of the cash proceeds received by the Company upon exercise of the Company's warrants carrying an exercise price of \$1.00, in each case, for so long as the warrants remain outstanding. The Company's previously issued warrants carrying an exercise price of \$0.75 have expired by their terms. As a result, no additional consideration will be due to the former sole shareholder of NTI relating to these warrants.

During the three month period ending September 30, 2020, 760,000 warrants of the Company's previously reported remaining outstanding warrants to acquire 4,294,500 shares of Common Stock at an exercise price of \$1.00 per share issued in connection with its July 2018 public offering, were exercised and (ii) 4,882,114 warrants of the Company's previously reported outstanding warrants to acquire 9,583,334 shares of Common Stock at an exercise price of \$0.90 per share issued in connection with its March 2019 public offering, were exercised. See Note 6. Warrants.

As a result of the Warrant Exercises, the Company paid \$1,220,781 of additional consideration to the sole former shareholder of NTI. The additional consideration payment is included in research and development expenses.

NIH License

Through NTI, the Company is a party to a Patent License and Biological Materials License Agreement (the “License Agreement” or “NIH License”), dated March 23, 2020, with the United States Department of Health and Human Services (the “HHS”), as represented by the National Institute of Allergy and Infectious Diseases (“NIAID”), an Institute within the National Institutes of Health (“NIH”). Under the terms of the License Agreement, we hold a nonexclusive, worldwide license to certain specified patent rights (including patent applications, provisional patent applications and Patent Cooperation Treaty (“PCT”) patent applications) and biological materials relating to the use of pre-fusion coronavirus spike proteins to exploit products (“Licensed Products”) and practice processes (“Licensed Processes”) that are covered by the licensed patent rights and biological materials for the purpose of developing and commercializing a vaccine product candidate for SARS-CoV-2.

Under the terms of the License Agreement, the NIAID is entitled to receive a non-creditable, nonrefundable upfront license issue royalty of \$30,000 and reimbursement of \$11,739 for our pro rata share of the NIAID's past and future patent prosecution-related expenses (which amounts have already been paid). Additionally, the NIAID is entitled to receive lump sum nonrefundable minimum annual royalties, which increase in the year after the first commercial sale of any Licensed Products or the practice of any Licensed Processes, as well as lump sum benchmark royalties following our completion of certain commercial development and sales-related benchmarks. The NIH is entitled to receive earned royalties on the annual net sales of Licensed Products and the practice of any Licensed Processes (subject to certain reductions), at certain low- to mid-single digit royalty rates, which rates vary based on the total amount of annual net sales and the geographic market in which those sales occur. We must provide regular written reports to the NIAID on the development status of and royalty payments relating to the Licensed Products and the Licensed Processes.

The License Agreement will expire upon (a) twenty (20) years from the first commercial sale where no licensed patent rights exist or have ceased to exist or (b) the expiration of the last patent contained in the licensed patent rights, unless terminated earlier. None of the applications included in the NIH licensed patent rights have issued yet. The NIH may terminate or modify the license in the event of a material breach, including if the Company does not meet certain milestones by certain dates, or upon certain insolvency events that remain uncured following the date that is 90 days following written notice of such breach or insolvency event. The Company may terminate the license, or any portion thereof, at its sole discretion at any time upon 60 days written notice to the NIH.

The Lantibiotic ECC

Under the Company's Lantibiotic ECC with ILH Holdings, Inc. (n/k/a Eleszto Genetika, Inc. ("EGI")) (the "Lantibiotic ECC, and subject to certain exceptions, the Company is responsible for, among other things, funding the further anticipated development of lantibiotics toward the goal of commercialization, conducting nonclinical and clinical development of candidate lantibiotics, as well as for other aspects of manufacturing and the commercialization of the product(s). Among other things, EGI is responsible for technology discovery efforts, cell-engineering development, certain aspects of the manufacturing process, and costs of filing, prosecution and maintenance of EGI's patents.

In November of 2017 the Lantibiotic ECC was amended to: (i) consolidate the development milestone payments into one payment of \$25,000,000, being due six months after receiving FDA approval of a New Drug Application, (ii) reduce the sublicense revenue percentage we would have had to pay from 50% to 25% of sublicensing revenue, (iii) reduce the royalty rate from 25% of Product Profit to 10% of Net Sales, (iv) revise the form of milestone payments from being share based or cash at the Company's election to only cash, and (v) commit that Diligent Efforts (as defined in the Lantibiotic ECC) in pursuing the Lantibiotic Program would be deemed satisfied in 2018 provided that at least \$1,200,000 was budgeted for the advancement of the Lantibiotic Program.

In November of 2017, the Stock Issuance Agreement was also amended. Under the terms of the amendment, the Company has agreed to make certain payments, in cash, to EGI upon our achievement of designated milestones. The milestone events and amounts payable are as follows:

- (i) a one-time payment of twenty-five million United States dollars (\$25,000,000) within six (6) months of the achievement of the Regulatory Approval Milestone Event meaning receiving approval from the FDA of a New Product Application for an Orogenics Product (or equivalent regulatory action in a foreign jurisdiction);
- (ii) a one-time payment of five million United States dollars (\$5,000,000) within six (6) months of the achievement of the New Indication Milestone Event meaning receiving approval from the FDA of a Supplemental FDA Application (or an equivalent filing with another equivalent regulatory agency) which Supplemental FDA Application sought approval of an indication for use of the Orogenics Product other than the current regulatory-approved indication; and
- (iii) a one-time payment of five million United States dollars (\$5,000,000) within six (6) months of the achievement of the New Product Milestone Event meaning receiving approval from the FDA of a New Product Application that is deemed to be a different drug product than the first Orogenics Product that was clinically pursued under the Lantibiotics Program.

Pursuant to the terms of the amendment, we will also pay EGI on a quarterly basis 10% of Net Sales derived in that quarter from the sale of products developed from the Lantibiotic ECC, calculated on an Oragenics Product-by-Oragenics Product basis and we will pay EGI on a quarterly basis 25% of revenue obtained in that quarter from a sublicensor in the event of a sublicensing arrangement.

On July 21, 2016, the Lantibiotics ECC was amended to revise the definition of Field in view of a provisional patent application filing between EGI and Oragenics and to further clarify Oragenics' rights under the Lantibiotic ECC to genetically modified *Streptococcus mutans* that express Lantibiotic(s).

None of the Lantibiotic ECC milestones had been achieved as of September 30, 2020.

Leases

The Company's Alachua facility is being leased from a real estate developer for a term of five years beginning in December 2019. Under the amended lease agreement, the rental payments range from \$12,870 per month to \$13,338 per month. The lease may be terminated prior to its stated expiration date upon the payment of nine-months rent.

In November of 2016, the Company entered into an amendment for the leased office space for corporate personnel located in Tampa, FL. The amended lease is for approximately 2,207 square feet. The lease period for the office space is for thirty-six months commencing on March 1, 2017. Lease payments range from \$4,138 per month to \$4,392 per month inclusive of insurance, taxes and utilities. The lease expired on February 29, 2020. In November of 2019, the Company entered into an amendment for the Tampa facility for a term of three years beginning in March of 2020. Under the amended lease agreement, the rental payments range from \$4,524 per month to \$4,800 per month.

Supplemental balance sheet information related to leases is as follows:

	September 30, 2020
Operating lease right-of-use assets	\$ 697,910
Operating lease liabilities - Short term	\$ 173,536
Operating lease liabilities - Long term	539,381
Total operating lease liabilities	\$ 712,917
Weighted Average Remaining Lease Term In Years	
Operating leases	3.71
Weighted Average Discount Rate	
Operating leases	5.70%

Maturities of operating lease liabilities are as follows:

Year ended December 31:	
2020	\$ 52,183
2021	210,561
2022	217,379
2023	169,656
2024	146,719
Total	\$ 796,498
Less: Imputed interest	(83,581)
Present value of lease liabilities	\$ 712,917

The cost component of operating leases is as follows:

	For the Nine Months Ended September 30, 2020
Operating lease cost	\$ 169,126
Short-term lease cost	1,839
Total lease cost	\$ 170,965

Supplemental cash flow information related to operating leases is as follows:

	For the Nine Months Ended September 30, 2020	
Cash paid for amounts included in the measurement of lease liabilities:		
Operating cash flows from operating leases	\$	169,264

9. Shareholders' Equity

Common Stock

On May 1, 2020, the Company issued (i) 9,200,000 shares of Common Stock and (ii) warrants to acquire 9,200,000 shares of Common Stock in connection with its acquisition of Noachis Terra Inc. See Note 4. Acquisition.

As of September 30, 2020, 5,680,114 warrants had been exercised resulting in the issuance 5,680,114 of shares of Common Stock. See Note 6. Warrants.

Preferred Stock

Series C Non-Voting, Non-Convertible Preferred Stock

Each issued and outstanding share of Series C Preferred Stock entitles the holder of record to receive dividends at the annual rate of twelve percent (12%) (the "Initial Rate") of its Stated Value, payable by issuing additional shares of Series C Preferred Stock within thirty days after the end of each calendar year pro-rata for partial years. The Initial Rate was increased to twenty percent (20%) automatically after May 10, 2019.

ITEM 2. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

The following information should be read in conjunction with the Financial Statements, including the notes thereto, included elsewhere in this Form 10-Q as well as our Annual Report on Form 10-K for the year ended December 31, 2019 filed on March 4, 2020 and our Form 8-K filed on May 8, 2020.

As used in this quarterly report the terms "we", "us", "our", "Oragenics" and the "Company" mean Oragenics, Inc. and its wholly owned subsidiary Noachis Terra Inc., unless the context otherwise requires.

Forward-Looking Statements

This Quarterly Report on Form 10-Q includes "forward-looking" statements within the meaning of Section 27A of the Securities Act of 1933, as amended and Section 21E of the Securities Exchange Act of 1934, as amended. These forward-looking statements are not historical facts, but are based on current expectations, estimates and projections about our industry, our beliefs and our assumptions. These forward-looking statements include statements about our strategies, objectives and our future achievement. To the extent statements in this Quarterly Report involve, without limitation, our expectations for growth, estimates of future revenue, our sources and uses of cash, our liquidity needs, our current or planned clinical trials or research and development activities, product development timelines, our future products, regulatory matters, expense, profits, cash flow balance sheet items or any other guidance on future periods, these statements are forward-looking statements. These statements are often, but not always, made through the use of word or phrases such as "believe," "will," "expect," "anticipate," "estimate," "intend," "plan," and "would." These forward-looking statements are not guarantees of future performance and concern matters that could subsequently differ materially from those described in the forward-looking statements. Actual events or results may differ materially from those discussed in this Quarterly Report on Form 10-Q. Except as may be required by applicable law, we undertake no obligation to update any forward-looking statements or to reflect events or circumstances arising after the date of this Report. Important factors that could cause actual results to differ materially from those in these forward looking statements are in the section entitled "Risk Factors" in the most recent Annual Report on Form 10- K, as updated by our recent Form 8-K Report filed with the Securities and Exchange Commission, and the other risks and uncertainties described elsewhere in this report as well as other risks identified from time to time in our filings with the Securities and Exchange Commission, press releases and other communications. In addition, the statements contained throughout this Quarterly Report concerning future events or developments or our future activities, including concerning, among other matters, current or planned clinical trials, anticipated research and development activities, anticipated dates for commencement of clinical trials, anticipated completion dates of clinical trials, anticipated meetings with the FDA or other regulatory authorities concerning our product candidates, anticipated dates for submissions to obtain required regulatory marketing approvals, anticipated dates for commercial introduction of products, and other statements concerning our future operations and activities, are forward-looking statements that in each instance assume that we are able to obtain sufficient funding in the near term and thereafter to support such activities and continue our operations and planned activities in a timely manner. There can be no assurance that this will be the case. Also, such statements assume that there are no significant unexpected developments or events that delay or prevent such activities from occurring. Failure to timely obtain sufficient funding, or unexpected developments or events, could delay the occurrence of such events or prevent the events described in any such statements from occurring.

Overview

We are focused on the creation of the TerraCoV2 immunization product candidate to combat the novel coronavirus pandemic and the further development of novel antibiotics against infectious disease.

Our SARS-CoV-2 Vaccine Product Candidate— TerraCoV2

As a result of our acquisition of one hundred percent (100%) of the total issued and outstanding common stock of Noachis Terra, Inc. ("Noachis Terra") we are now dedicated to the development and commercialization of a vaccine product candidate to provide specific, long lasting immunity from the novel Severe Acute Respiratory Syndrome coronavirus ("SARS-CoV-2"), which causes the coronavirus disease 2019 ("COVID-19"). Noachis Terra is a party to a worldwide, nonexclusive intellectual property and biological materials license agreement with the National Institute of Allergy and Infectious Diseases ("NIAID"), an institute within the National Institutes of Health ("NIH"), relating to certain research, patent applications and biological materials involving pre-fusion coronavirus spike proteins and their use in the development and commercialization of vaccine to provide specific, long lasting immunity from SARS-CoV-2.

Coronaviruses are a family of viruses that can, when transmitted to humans, lead to upper-respiratory infections. Recent clinical reports also suggest that the SARS-CoV-2 virus can affect other body-systems, including the nervous, cardiovascular, gastrointestinal and renal systems. Among the recent iterations of coronaviruses to move from animal to human carriers is SARS-CoV-2 (often referred to as COVID-19), which, beginning in Wuhan, China, in late 2019, caused a global pandemic due to its rapid spread and the relatively high mortality rate (as compared to the seasonal influenza). In early October of 2020, the World Health Organization's estimates indicate the number of worldwide COVID-19 infections have exceeded 36,000,000 and the number of deaths directly attributed to COVID-19 have exceeded 1,000,000. Currently, no governmental regulatory authority in the United States has approved a vaccine specifically targeting SARS-CoV-2 or COVID-19. We intend to combine the research, patent applications and biological materials covered by our NIAID license with our existing clinical research and manufacturing capabilities to respond rapidly to this ongoing, global, public health crisis.

Corona viruses, such as SARS -CoV-2, possess signature protein spikes on their outer capsule. The NIAID license covers patents and data on a vaccine candidate that were created based on a stabilized pre-fusion spike trimeric protein. By stabilizing the spike protein in the pre-fusion state, the number of immunogenic centers is increased thereby allowing for a greater likelihood of successful antibody binding, resulting in an improved immunogenic response. The genetic code, acquired from the NIH, for the stabilized pre-fusion spike protein was provided to Aragen Bioscience, Inc. ("Aragen") for the purpose of insertion of the spike protein gene sequence into a Chinese Hamster Ovary ("CHO") cell line. Aragen is a leading contract research organization focused on accelerating preclinical biologics product development, has extensive experience building CHO cell lines for recombinant proteins, such as monoclonal antibodies. Aragen has successfully inserted the NIH pre-fusion spike protein gene sequence into a CHO cell line and is currently developing both the analytical tests and identifying preliminary cell line growth conditions to optimize the spike protein titers. Currently, "mini-pool" production and analytical development is underway. The transfer to full-scale manufacture has begun.

The NIH's preclinical study shows that this spike protein, adjuvanted with the mouse specific TLR-4-agonist Sigma Adjuvant System ("SAS", a TLR-4 agonists) that induces T cell activation), generates neutralizing antibody titers in both a pseudovirus neutralization assay and a plaque reduction neutralization titer (PRNT) assay. In October 2020, we received feedback to our Type B Pre-IND Meeting Request from the FDA. The response indicated that the FDA broadly supported our planned approach to the pre-clinical program that will support the clinical development of the Terra CoV-2, vaccine. As a result, we believe the timelines for both filing an Investigational New Drug ("IND") application and the commencement of the Phase 1 study will proceed on schedule. We anticipate filing the IND in the second quarter of 2021 and immediately upon the receipt of approval from the FDA, commencing the Phase 1 clinical study.

We expect to use our currently available cash resources to continue to advance the development of TerraCoV2 with full development being contingent upon the receipt of additional equity funding.

Our Antibiotic Product Candidate-OG716

Members of our scientific team discovered that a certain bacterial strain, *Streptococcus mutans*, produces MU1140, a molecule belonging to the novel class of antibiotics known as lantibiotics. Lantibiotics, such as MU1140, are highly modified peptide antibiotics made by a small group of Gram-positive bacterial species. Approximately 60 lantibiotics have been discovered, to date. We believe lantibiotics are generally recognized by the scientific community to be potent antibiotic agents.

In nonclinical testing, MU1140 has shown activity against all Gram-positive bacteria against which it has been tested, including those responsible for a number of healthcare associated infections, or HAIs. A high percentage of hospital-acquired infections are caused by highly resistant bacteria such as methicillin-resistant *Staphylococcus aureus* (MRSA) or multidrug-resistant Gram-negative bacteria. We believe the need for novel antibiotics is increasing as a result of the growing resistance of target pathogens to existing FDA approved antibiotics on the market along with the increased use of currently available antibiotics due to secondary infections in SARS-CoV-2 infected patients.

Lantibiotics have been difficult to investigate for their clinical usefulness as therapeutic agents in the treatment of infectious diseases due to a general inability to produce or synthesize sufficient quantities of pure amounts of these molecules. Traditional fermentation methods can only produce minute amounts of the lantibiotic.

In June 2012, we entered into the Lantibiotic Exclusive Channel Collaboration agreement ("Lantibiotic ECC") with Precigen for the development and commercialization of the native strain of MU1140 and related homologs using Precigen's advanced transgene and cell engineering platforms. Through our work with Precigen, we have been able to produce a significant increase in the fermentation titer of MU1140 compared to standard fermentation methods and have discovered a new purification process for MU1140. Our work with Precigen generated a substantial number of homologs of MU1140. In January Precigen consummated a reorganization of its ongoing API fermentation operations and assets into EGI which at the time was an affiliate of Precigen. In connection with the reorganization, Precigen assigned the Lantibiotic ECC and related stock issuance agreements to EGI. Following such reorganization, Precigen divested certain of its assets to TS Biotechnology Holdings, LLC which included EGI and shares of Oragenics securities held by Precigen. As a result of such change by Precigen we expect to continue our research and development and collaboration efforts with EGI to develop potential derivatives of the MU1140 molecule using genetically modified bacteria.

In our pre-clinical studies to support a potential IND filing with the FDA, we tested a total of six homologs of MU1140 for certain compound characteristics, including but not limited to: drug activity (based on minimum inhibitory concentration or “MIC”) equal or better than “standard of care” drugs against certain drug-resistant bacteria, safety, toxicity, stability, and manufacturability. An animal study specifically evaluated homolog efficacy in relation to survival, measurable amounts of *Clostridium difficile* (“*C. diff*”) colony forming units, and toxin levels. Three homologs demonstrated promising results with one homolog, OG253 achieving a 100% survival rate throughout the entire study in contrast to an approximately 30% survival rate for the vancomycin positive control.

Based on these early results, we selected a lead candidate, OG253, for which we had a pre-IND meeting with the FDA in November of 2015 regarding the pursuit of an IND for OG253. Following additional research and development on second generation lantibiotics, in August of 2016, we opted to select a second generation lantibiotic, OG716, for treatment of *C. diff* as our new lead candidate. OG716 is a new, orally-active homolog, that has exhibited positive results in an animal model for potential treatment of *C. diff*. Generated from our MU1140 platform, this new lantibiotic showed promising efficacy in reducing clinically relevant *C. diff* infections as measured by increased animal survival and decreased relapse as well as reduced production of toxins A & B and *C. diff* spores.

The timing of the filing of an IND regarding OG716 is subject to our having sufficient available human, material and financing capital, which includes research subjects, both animal and human, given all of our anticipated needs and expected requirements in connection with our ongoing research and development initiatives. We will continue to advance the OG716 program to the IND filing based on the availability of both human and financial capital. Based upon the current funding available we will continue to conduct some of the requisite studies. While we commenced certain of these studies at the end of 2019, we expect to focus on efficient and cost-effective improvements in the manufacturing process of the product as we move to complete the pre-clinical studies required to support our first in man Phase 1 clinical study.

Product Candidates.

Through our wholly-owned subsidiary, Noachis Terra, we intend to begin the research and development stage for our new TerraCoV2 vaccine product candidate. We hold a nonexclusive, worldwide intellectual property license agreement for certain research, patent applications and biological materials relating to the use of pre-fusion coronavirus spike proteins for the development and commercialization of a vaccine for SARS-CoV-2.

Additionally, we are currently working with Eleszto Genetika, Inc. (as an assignee of Precigen) to use its technology to develop lantibiotics. We seek to protect our product candidates through patents and patent applications pursuant to the terms of our license agreements.

<u>Product/Candidate</u>	<u>Description</u>	<u>Application</u>	<u>Status</u>
TerraCoV2	Vaccine candidate (plasmid + adjuvant) to provide lifetime immunity from SARS-CoV-2	Broad, community-based vaccine immunity and/or therapeutic applications(?) against SARS-CoV-2	Pre-clinical
OG716	A homolog of MU1140: Member of lantibiotic class of antibiotics	<i>Clostridium difficile</i> associated diarrhea	Nonclinical testing

Recent Developments

Feedback From U.S. Food and Drug Administration (“FDA”). In October 2020, the Company announced the receipt of feedback to its Type B Pre-IND Meeting Request from the FDA. The response indicated that the FDA is in broad agreement with the Company’s planned pre-clinical approach to support clinical development of its SARS-CoV-2 vaccine, Terra CoV-2. The Company anticipates filing the IND in the second quarter of 2021 and immediately upon the receipt of approval from the FDA, commencing the Phase 1 clinical study.

Funding Update From Biomedical Advanced Research and Development Authority (“BARDA”). In September of 2020 the Company was informed of BARDA’s determination not to enter into negotiation with the Company. While BARDA noted the Company’s submission aligned with its mission, a combination of factors, including availability of funds, precluded the agency from entering into negotiations at that time.

Warrant Exercises. Between July 1, 2020 and September 30, 2020, 760,000 of our previously reported remaining outstanding warrants were exercised at an exercise price of \$1.00 per share issued in connection with our July 2018 public offering (the “2018 Warrants”) and 4,882,114 warrants of our previously reported outstanding warrants to acquire shares of Common Stock at an exercise price of \$0.90 per share issued in connection with our March 2019 public offering (the “2019 Warrants”), were exercised (the “Warrant Exercises”). The Warrant Exercises provided aggregate gross proceeds to us of \$5,153,902.

Additional Consideration Payment - NTI Acquisition In connection with our acquisition of NTI we are obligated to pay additional consideration to NTI's former sole stockholder determined and based upon the exercise of our 2018 Warrants and 2019 Warrants. As a result of Warrant Exercises, we paid \$1,220,781 in additional consideration to NTI's former sole stockholder.

Financial Overview

Impact of the Novel Coronavirus. The current COVID-19 pandemic has presented a substantial public health and economic challenge around the world and is affecting our employees, development partners, communities and business operations, as the U.S. and global economies and financial markets. The full extent to which the COVID-19 pandemic will directly or indirectly impact our business, results of operations and financial condition will depend on future developments that are highly uncertain and cannot be accurately predicted, including new information or trends that may emerge concerning COVID-19, the actions taken to contain it or treat its impact, and the impact on local, regional, national and international markets.

Our management has closely monitored the impact of COVID-19 on our business operations. Due to stay at home orders in the United States, we have instituted a work-from-home plan for our employees. Additionally, as noted below, on May 5, 2020, the Company received loan proceeds in the amount of \$132,088 under the Paycheck Protection Program (the "PPP"), pursuant to the Coronavirus Aid, Relief and Economic Security Act ("CARES Act"). We have no plans to furlough employees at this time. However, the Company is dependent on its workforce to deliver and advance its research. While expected to be temporary, prolonged workforce disruptions may negatively impact future operations in fiscal year 2020 and the Company's overall liquidity.

To date, we and our development partners, have been able to conduct ordinary operations at or near normal levels and do not currently anticipate any interruptions for the foreseeable future. However, there could be additional repercussions for our operations, particularly for the initial development of our TerraCov2 product candidate, including but not limited to, the sourcing of materials for product candidates, manufacture of supplies for preclinical and/or clinical studies, delays in clinical operations, which may include the availability or the continued availability of patients for trials due to such things as quarantines, conduct of patient monitoring and clinical trial data retrieval at investigational study sites. The continuation of the pandemic could adversely affect our planned clinical trial operations, including our ability to conduct the trials on the expected timelines and recruit and retain patients and principal investigators and site staff who, as healthcare providers, may have heightened exposure to COVID-19 if their geography is impacted by the pandemic. Further, the COVID-19 pandemic could result in delays in our clinical trials due to prioritization of hospital resources toward the pandemic, restrictions in travel, potential unwillingness of patients to enroll in trials at this time, or the inability of patients to comply with clinical trial protocols if quarantines or travel restrictions impede patient movement or interrupt healthcare services. In addition, we rely on independent clinical investigators, contract research organizations and other third-party service providers to assist us in managing, monitoring and otherwise carrying out our preclinical studies and clinical trials, and the pandemic may affect their ability to devote sufficient time and resources to our programs or to travel to sites to perform work for us.

Research and Development Expenses

Research and development consist of expenses incurred in connection with the discovery and development of our product candidates. These expenses consist primarily of employee-related expenses, which include salaries and benefits and attending science conferences; expenses incurred under our license agreements with third parties and under other agreements with contract research organizations, investigative sites and consultants that conduct our clinical trials and a substantial portion of our nonclinical studies; the cost of acquiring and manufacturing clinical trial materials; facilities, depreciation and other allocated expenses, which include direct and allocated expenses for rent and maintenance of facilities and equipment, and depreciation of fixed assets; license fees, for and milestone payments related to, in-licensed products and technology; stock-based compensation expense; and costs associated with nonclinical activities and regulatory approvals. We expense research and development costs as incurred.

Our research and development expenses can be divided into (i) clinical research, and (ii) nonclinical research and development activities and (iii) manufacturing process development and analytical testing procedure development. Clinical research costs consist of clinical trials, manufacturing services, regulatory activities and related personnel costs, and other costs such as rent, utilities, depreciation and stock-based compensation. Nonclinical research and development costs consist of our research activities, nonclinical studies, related personnel costs and laboratory supplies, and other costs such as rent, utilities, depreciation and stock-based compensation and research expenses we incur associated with the development of our product candidates. While we are currently focused on advancing our product development programs, our future research and development expenses will depend on the clinical success of our product candidates, as well as ongoing assessments of each product candidate's commercial potential. In addition, we cannot forecast with any degree of certainty which product candidates may be subject to future collaborations, when such arrangements will be secured, if at all, and to what degree such arrangements would affect our development plans, research expenses and capital requirements.

Our research and development expenses were \$18,755,013 and \$9,360,520 for the nine months ended September 30, 2020 and 2019, respectively.

Our current product development strategy contemplates an expected increase in our research and development expenses in the future as we continue the advancement of our product development programs for our vaccine and lantibiotic product candidates, with greater near term emphasis on our vaccine product candidate. The lengthy process of completing clinical trials; seeking regulatory approval for our product candidates; and expanding the potential claims we are able to make, requires expenditure of substantial resources. Any failure or delay in completing clinical trials, or in obtaining regulatory approvals, could cause a delay in generating product revenues and cause our research and development expenses to increase and, in turn, have a material adverse effect on our operations. Our current product candidates are not expected to be commercially available until we are able to obtain regulatory approval from the FDA.

Our plan is to budget and manage expenditures in research and development such that they are undertaken in a cost-effective manner yet still advance the research and development efforts. While we have some control under our Lantibiotic ECC and NIH license as to the planning and timing of our research and development and therefore the timing of when expenditures may be incurred for various phases of agreed upon projects, actual expenditures can vary from period to period. Subject to available capital, we expect overall research and development expenses to increase as a result of our vaccine product candidate and as our financial resources permit. Our research and development projects are currently expected to be taken to the point where they can be licensed or partnered with larger pharmaceutical companies.

General and Administrative Expenses

General and administrative expenses consist principally of salaries and related costs for personnel in executive, finance, and administrative functions. Other general and administrative expenses include facility costs not otherwise included in research and development expenses, patent filing, and professional fees for legal, consulting, auditing and tax services.

We anticipate that our general and administrative expenses to increase for, among others, the following reasons:

- to support our research and development activities, which, subject to available capital, we expect to expand as we continue the development of our product candidates;
- the efforts we undertake from, time to time, to raise additional capital; and
- the increased payroll, and stock-based compensation, expanded infrastructure and higher consulting, legal, accounting and investor relations costs associated with being a public company.

Other Income (Expense)

Other income (expense) includes local business taxes, as well as interest income and expense. Interest income consists of interest earned on our cash and cash equivalents, and interest earned on the stock subscription receivable. The primary objective of our investment policy is capital preservation. Interest expense consists primarily of interest and costs associated with our indebtedness.

Income Taxes

As of December 31, 2019, we have net operating loss carryforwards of approximately \$117,963,000 to offset future federal and state income taxes. Federal and state tax net operating loss carryforwards generated prior to December 31, 2017 will expire through 2037. Federal tax net operating loss carryforwards generated subsequent to December 31, 2017, do not expire but are subject to a limitation of 80% of federal taxable income for tax years beginning after December 21, 2020. For tax years beginning before 2021 and after December 31, 2017, the federal taxable income limitation has been removed under the CARES Act. We also have research and development tax credit carryforwards of approximately \$2,805,000 as of December 31, 2019, to offset future federal and state income taxes. Our net operating loss and research and development tax credit carryforwards will expire if not used by 2039 and 2029, respectively.

Utilization of net operating loss carryforwards and research and development credit carryforwards may be subject to a substantial annual limitation due to ownership change limitations that may have occurred or, could occur in the future in accordance with Section 382 of the Internal Revenue Code of 1986 (“IRC Section 382”) and with Section 383 of the Internal Revenue Code of 1986, as well as similar state provisions. These ownership changes may limit the amount of net operating loss carryforwards and research and development credit carryforwards that can be utilized annually to offset future taxable income and taxes, respectively. In general, an ownership change, as defined by IRC Section 382, results from transactions increasing the ownership of certain stockholders or public groups in the stock of a corporation by more than 50 percentage points over a three-year period. The Company has completed several financings since its inception, as well as the recent acquisition of Noachis Terra, which may result in a change in ownership as defined by IRC Section 382, or could result in a change in control in the future. In each period since our inception, we have recorded a 100% valuation allowance for the full amount of our deferred tax asset, as the realization of the deferred tax asset is uncertain. As a result, we have not recorded any federal tax benefit in our statements of operations.

Results of Operations for the Three Months Ended September 30, 2020 and 2019

Research and Development. Research and development expenses were \$3,498,361 for the three months ended September 30, 2020 compared to \$3,067,612 for the three months ended September 30, 2019, an increase of \$430,749 or 14.0%. This increase was primarily due to the payment of additional contingent consideration relating to the acquisition of Noachis Terra, Inc. and an increase in costs associated with the TerraCoV2 vaccine program of \$1,220,780 and \$649,165, respectively. This increase was partially offset by decreases in costs associated with our clinical trial work related to our oral mucositis product candidate under our ECC and a reduction in costs associated with our lantibiotic ECC of \$876,671 and \$562,325, respectively.

General and Administrative. General and administrative expenses were \$1,010,006 for the three months ended September 30, 2020 compared to \$852,841 for three months ended September 30, 2019, an increase of \$157,165 or 18.4%. This increase was primarily due to increases in filing fees and registration costs, insurance, legal costs, and stock-based compensation costs of \$165,805, \$48,875, \$39,685, and \$11,887, respectively. These increases were offset by decreases in costs associated with non-employee stock-based compensation costs and travel and entertainment costs of \$75,275, and \$36,564, respectively.

Other Income. Other income, net was \$11,807 for the three months ended September 30, 2020 compared to \$83,904 for the three months ended September 30, 2019, resulting in a net change of \$72,097. The net change was primarily attributable to a decrease in interest income of \$70,413.

Results of Operations for the Nine Months Ended September 30, 2020 and 2019

Research and Development. Research and development expenses were \$18,755,013 for the nine months ended September 30, 2020 compared to \$9,360,520 for the nine months ended September 30, 2019, an increase of \$9,394,493 or 100.4%. This increase was primarily due to the acquisition of Noachis Terra, Inc. and an increase in costs associated with the TerraCoV2 vaccine program, employee stock-based compensation, salaries, and bonus costs of \$11,176,479, \$1,116,085, \$101,928, \$63,333, and \$36,000, respectively. These increases were partially offset by decreases in costs associated with our clinical trial work related to our oral mucositis product candidate under our ECC and a reduction in costs associated with our lantibiotic ECC of \$2,296,776, and \$790,401, respectively.

General and Administrative. General and administrative expenses were \$3,337,422 for the nine months ended September 30, 2020 compared to \$2,858,997 for the nine months ended September 30, 2019, an increase of \$478,425 or 16.7%. This increase was primarily due to increases in non-employee stock-based compensation costs, employee stock-based compensation costs and insurance costs of \$304,072, \$268,616, and \$58,051, respectively. This increase was partially offset by decreases in travel and entertainment, and consulting costs of \$77,332, and \$61,662, respectively.

Other Income. Other income, net was \$70,819 for the nine months ended September 30, 2020 compared to \$250,791 for the nine months ended September 30, 2019, resulting in a net change of \$179,972. The net change was primarily attributable to a decrease in interest income of \$178,920.

Liquidity and Capital Resources

Since our inception, we have funded our operations primarily through the sale of equity securities in our initial public offering, the sale of equity securities and warrants in private placements, debt financing, warrant exercises, public offerings, and grants. During the nine months ended September 30, 2020 and September 30, 2019 our operating activities used cash of \$13,321,283, and \$9,076,328, respectively. The use of cash in all periods primarily resulted from our net losses adjusted for non-cash items and changes in operating assets and liabilities. We had a working capital surplus of \$9,426,790 and \$16,987,690 at September 30, 2020 and December 31, 2019, respectively.

During the nine months ended September 30, 2020 and September 30, 2019, our investing activities used cash of \$- and \$11,354, respectively. The cash used by investing activities during the nine months ended September 30, 2019 was primarily due to the purchase of property and equipment.

During the nine months ended September 30, 2020 and September 30, 2019, our financing activities provided cash of \$5,096,902 and \$11,171,305, respectively. The cash provided by financing activities during the nine months ended September 30, 2020 and September 30, 2019, was primarily due to the exercise of warrants and the consummation of a public offering and borrowing and payments in short term notes payable.

Financing

Additional details of our financing activities for the periods reflected in this report are provided below as well as certain of our historical financings involving the issuance of preferred stock:

The May 2017 Series A Preferred Stock Financing

On May 10, 2017 we entered into a securities purchase agreement with three accredited investors, to purchase up to \$3,000,000 of Series A Convertible Preferred Stock (the “Series A Preferred Stock Financing”). The sale of the Preferred Stock took place in two separate closings and at the first closing which occurred on May 10, 2017, we received gross proceeds of approximately \$1,302,000. The second closing occurred on July 25, 2017 and we received gross proceeds of approximately \$1,698,000, which was the balance of the Preferred Stock Financing. The full \$3,000,000 of Preferred Stock, and after giving effect to the reverse stock split, is convertible into one million two hundred thousand shares of our Common Stock, based on a fixed conversion price of \$2.50 per share on an as-converted basis. In addition, and after giving effect to the reverse stock split, we issued warrants to purchase an aggregate of 462,106 shares of Common Stock at the first closing and we issued an aggregate of 602,414 shares of Common Stock at the second closing. The warrants have a term of seven years from the date of issuance are non-exercisable until 6 months after issuance, have an exercise price of \$3.10 per share. Proceeds from the Series A Preferred Stock Financing (including the exercise of any warrants for cash) was used for general corporate purposes, including working capital.

On July 27, 2017, we entered into an agreement to amend the warrants issued in connection with the Series A Preferred Stock Financing to provide notification and objection requirements with respect to the change of control provisions. The change of control provisions in the warrants had previously caused the warrants to be treated as a derivative liability as opposed to being treated as equity on our balance sheet. The warrants have been replaced by amended and restated warrants containing such notification and objection requirements (the “Amended and Restated Common Stock Purchase Warrants”) so that the Amended and Restated Common Stock Purchase Warrants are now treated as equity on our balance sheet. All other terms of the original warrants remain unchanged by the Amended and Restated Common Stock Purchase Warrants.

In connection with the Series A Preferred Financing, we filed a Certificate of Designations of Preferences, Rights and Limitations of Series A Preferred Stock with the Secretary of State of the State of Florida, effective May 10, 2017. The number of shares of Preferred Stock designated as Series A Preferred Stock was 12,000,000.

In connection with the issuance and sale of the Series A Preferred Stock and common stock warrants that were issued commensurate with the issuance of the Series A Preferred Stock, we granted certain demand registration rights and piggyback registration rights with respect to the shares of our Common Stock issuable upon conversion of the Preferred Stock and exercise of the Warrants, pursuant to a Registration Rights Agreement.

Except as otherwise required by law, the Series A Preferred Stock have no voting rights. However, as long as any shares of Series A Preferred Stock are outstanding, we shall not, without the affirmative vote of the holders of a majority of the then outstanding shares of the Series A Preferred Stock, (a) alter or change adversely the powers, preferences or rights given to the Series A Preferred Stock or alter or amend the Certificate of Designation, (b) amend its articles of incorporation or other charter documents in any manner that adversely affects any rights of the holders of Series A Preferred Stock, (c) increase the number of authorized shares of Series A Preferred Stock, or (d) enter into any agreement with respect to any of the foregoing. Upon any liquidation, dissolution or winding-up by us, whether voluntary or involuntary that is not a Fundamental Transaction (as defined in the Certificate of Designation), the holders of Series A Preferred Stock shall be entitled to receive out of the assets, the greater of (i) the product of the number of shares of Series A Preferred Stock then held by such holder, multiplied by the Original Issue Price; and (ii) the amount that would be payable to such holder in the Liquidation in respect of Common Stock issuable upon conversion of such shares of Series A Preferred Stock if all outstanding shares of Series A Preferred Stock were converted into Common Stock immediately prior to the Liquidation. The Series A Preferred Stock is classified as permanent equity.

The November 2017 Series B Preferred Stock Financing

On November 8, 2017, we completed a private placement of \$3,300,000 of Series B Non-Voting, Convertible Preferred Stock (the “Series B Convertible Preferred Stock”) pursuant to a Securities Purchase Agreement with four existing shareholders who are accredited investors including an entity affiliated with a director of the Company (the “Series B Preferred Stock Financing”).

The full \$3,300,000 of Series B Convertible Preferred Stock is convertible, after giving effect to the reverse stock split into one million three hundred and twenty thousand shares of our Common Stock, based on a conversion of one share of Series B Preferred Stock into two shares of Common Stock. The purchase price per share of the Series B Preferred Stock is represented by \$2.50 per share of the Common Stock on an as converted basis. In addition, and after giving effect to the reverse stock split, we issued to the investors in the private placement accompanying common stock purchase warrants to purchase an aggregate of 1,064,518 shares of Common Stock. The warrants have a term of seven years from the date of issuance, and are non-exercisable until six (6) months after issuance, and after giving effect to the reverse stock split, have an exercise price of \$3.10 per share.

In connection with the Series B Preferred Financing, we filed a Certificate of Designation and Rights of Series B Convertible Preferred Stock with the Secretary of State of the State of Florida, effective November 8, 2017. The number of shares of Preferred Stock designated as Series B Preferred Stock was 6,600,000.

Except as otherwise required by law, the Series B Preferred Stock have no voting rights. However, as long as any shares of Series B Preferred Stock are outstanding, we shall not, without the affirmative vote of the holders of a majority of the then outstanding shares of the Series B Preferred Stock, (a) alter or change adversely the powers, preferences or rights given to the Series B Preferred Stock or alter or amend the Certificate of Designation, (b) amend its articles of incorporation or other charter documents in any manner that adversely affects any rights of the holders of Series B Preferred Stock, (c) increase the number of authorized shares of Series B Preferred Stock, or (d) enter into any agreement with respect to any of the foregoing.

The Series B Preferred Stock shall rank (i) on par with the Common Stock and Series A Preferred Stock and junior to Series C Preferred Stock as to dividend rights and (ii) junior to Series C Preferred Stock, on par with Series A Preferred Stock and senior to the Common Stock as to distribution of assets upon liquidation, dissolution or winding-up by us, whether voluntary or involuntary.

Upon any liquidation, dissolution or winding-up by us, whether voluntary or involuntary, the holders of Series B Preferred Stock shall be entitled to receive out of the assets, after payment to the holders of Series C Preferred Stock but on par with the holders of Series A Preferred Stock and in preference to the holders of the Common Stock, an amount of cash equal to the greater of (i) the product of the number of shares of Series B Preferred Stock then held by such holder, multiplied by the Original Issue Price; and (ii) the amount that would be payable to such holder in the Liquidation in respect of Common Stock issuable upon conversion of such shares of Series B Preferred Stock if all outstanding shares of Series B Preferred Stock were converted into Common Stock immediately prior to the Liquidation. The Series B Preferred Stock is classified as permanent equity.

The Series C Preferred Stock Issuance

Concurrently with the Series B Preferred Stock Financing, we exchanged the amount owed on an unsecured non-convertible promissory note including accrued interest and trade payables owed by us to the noteholder (collectively the "Debt") in the aggregate amount of approximately \$3,400,000 for equity in the form of 100 shares of Series C, Non-Voting, Non-Convertible Preferred Stock (the "Series C Preferred Stock") with a stated value equal to the amount of the Debt. In connection therewith, we filed a Certificate of Designation and Rights of Series C Non-Convertible Preferred Stock with the Secretary of State of the State of Florida, to be effective November 8, 2017. The number of shares of Preferred Stock designated as Series C Preferred Stock is 1,000.

In connection with the Precigen Debt Conversion Agreement, we filed a Certificate of Designation and Rights of Series C Non-Convertible Preferred Stock with the Secretary of State of the State of Florida, to be effective November 8, 2017. The number of shares of Preferred Stock designated as Series C Preferred Stock is 1,000.

Each issued and outstanding share of Series C Preferred Stock entitles the holder of record to receive dividends at the annual rate of twelve percent (12%) (the "Initial Rate") of its Stated Value, payable by issuing additional shares of Series C Preferred Stock within thirty days after the end of each calendar year pro-rata for partial years. The Initial Rate increased to twenty percent (20%) automatically after May 10, 2019.

The Series C Preferred Stock ranks senior to the Common Stock, Series A Preferred Stock, Series B Preferred Stock and to any other equity securities issued by us (the "Junior Securities") as to rights upon liquidation, dissolution or winding-up by us, whether voluntary or involuntary.

Upon any liquidation, dissolution or winding-up by us, whether voluntary or involuntary, the holders of Series C Preferred Stock shall be entitled to receive, in preference to the Junior Securities, an amount of cash equal to the product of (i) sum of (a) the number of shares of Series C Preferred Stock then held by such holder plus, (b) the number of shares of Series C Preferred Stock issuable to such holder in connection with any accrued but unpaid dividends, multiplied by (ii) the Stated Value, of \$33,847.9874 per share, of Series C Preferred Stock ("the Series C Liquidation Amount") and no distribution or payments shall be made in respect of any Junior Securities unless all Series C Liquidation Amounts, if any, are first paid in full.

On January 25, 2018 we paid a dividend on our Series C Preferred Stock of 1.733 shares of additional Series C Preferred Stock, on January 31, 2019 we paid a dividend on our Series C Preferred Stock of 12.208 shares of additional Series C Preferred Stock and on January 27, 2020 we paid a dividend on our Series C Preferred Stock of 19.542 shares of additional Series C Preferred Stock.

The April 6, 2018 Registered Direct Offering and Private Placement

On April 6, 2018, we entered into a securities purchase agreement with certain investors pursuant to which issued an aggregate of 900,000 shares of our common stock, par value \$0.001 per share, at \$2.00 per share. In a concurrent private placement, we issued to the investors who participated in the registered offering, warrants exercisable for one share of common stock for each share purchased in the registered offering for an aggregate of warrants to acquire 900,000 shares of common stock at an exercise price of \$2.00 per share. Each warrant is exercisable beginning on the six-month anniversary of the date of its issuance and expires five years from the date of issuance.

The July 17, 2018 Underwritten Public Offering

On July 17, 2018, we closed an underwritten public offering of units for gross proceeds of approximately \$13.8 million, which includes the full exercise of the underwriter's over-allotment option to purchase additional shares and warrants, prior to deducting underwriting discounts and commissions and offering expenses payable by us.

The offering was comprised of Class A Units, priced at a public offering price of \$1.00 per unit, with each unit consisting of one share of common stock and a seven-year warrant to purchase one share of common stock with an exercise price of \$1.00 per share (each, a "Warrant" and collectively, the "Warrants"), and Class B Units, priced at a public offering price of \$1.00 per unit, with each unit comprised of one share of series D preferred stock (the "Series D Preferred Stock"), which is convertible into one share of common stock, and a Warrant. The conversion price of the Series D Preferred Stock issued in the transaction as well as the exercise price of the Warrants are fixed and do not contain any variable pricing features or any price based anti-dilutive features. The Series D Preferred Stock issued in this transaction included a beneficial ownership blocker but has no dividend rights (except to the extent that dividends are also paid on the common stock), liquidation preference or other preferences over common stock, and, with certain exceptions, has no voting rights. The securities comprising the units were immediately separable and have been issued separately.

At the closing of our underwritten public offering, a total of 4,436,000 shares of common stock, 9,364,000 shares of Series D Preferred Stock convertible into 9,364,000 shares of common stock, and warrants to acquire 13,800,000 shares of common stock were issued inclusive of the underwriter's exercise of their over-allotment option to purchase 1,800,000 shares of common stock and warrants to acquire 1,800,000 shares of common stock at \$1.00 per share.

Since the closing of our underwritten public offering all of the shares of Series D Preferred Stock that were issued have been converted into shares of our common stock in accordance with the terms for conversion and an aggregate of 10,255,500 Warrants were exercised for cash. During October 2018, 9,505,000 shares of Company common stock were issued as a result of the voluntary exercise of such Warrants. The Warrant exercises resulted in gross proceeds to the Company of approximately \$9.5 million. During July 2020 an additional 760,000 shares of Company common stock were issued as a result of the voluntary exercise of such Warrants resulted in gross proceeds to the Company of \$760,000.

The March 25, 2019 Underwritten Public Offering

On March 25, 2019, we announced the closing of an underwritten public offering for gross proceeds of approximately \$12.5 million, which included the partial exercise of the underwriter's over-allotment option to purchase additional shares and warrants, prior to deducting underwriting discounts and commissions and offering expenses. The offering was comprised of 16,666,668 shares of common stock, short-term warrants to purchase up to 8,333,334 shares of common stock, and long-term warrants to purchase up to 8,333,334 shares of common stock, at a price to the public of \$0.75 per share and accompanying warrants.

In connection with the public offering, we granted the underwriter a 30-day option to purchase up to 2,500,000 additional shares of common stock and/or short-term warrants to purchase 1,250,000 shares of common stock and long-term warrants to purchase 1,250,000 shares of common stock the public offering price, less underwriting discounts and commissions. The underwriter exercised its option to purchase the short-term warrants to purchase 1,250,000 shares of common stock and long-term warrants to purchase 1,250,000 shares of common stock effective as of the closing.

Each short-term warrant had an exercise price of \$0.75 per share of common stock, is immediately exercisable, and expired on the earlier of (1) the eighteen-month anniversary of the date of issuance and (2) twenty-one trading days following our release of top-line data related to our Phase 2 double blind, placebo controlled clinical trial of AG013.

As a result of our announcement of top-line data on the Phase 2 clinical trial of AG013 on April 15, 2020, the short-term Warrants were subject to expiration on May 14, 2020. On May 14, 2020 9,545,334 of the Company's short-term warrants expired unexercised (exclusive of 38,000 shares previously exercised).

Each long-term warrant has an exercise price of \$0.90 per share of common stock, is immediately exercisable and expires five years following the date of issuance. Through September 30, 2020 the Company issued 4,882,114 shares of Common Stock at an exercise price of \$0.90 per share issued in connection with the exercise of the long-term warrants. The long-term warrant exercises provided aggregate gross proceeds to the Company of approximately \$4.3 million,

Other Financings

We enter into short term financing arrangements for the payment of our annual insurance premiums for our products liability insurance and directors and officers and employment practices insurance and for the financing of certain expenses covered under the Paycheck Protection Program.

Paycheck Protection Program

On May 5, 2020, the Company received loan proceeds in the amount of \$132,088 under the PPP. The PPP, established by the CARES Act and administered by the Small Business Administration, provides for loans to qualifying businesses for amounts up to 2.5 times the average monthly payroll expenses of the qualifying business. The loan and accrued interest are forgivable after an initial period of eight weeks (extended to twenty-four weeks on June 5, 2020) as long as the Company uses the proceeds for eligible purposes, including payroll, benefits, rent, and utilities and maintains its payroll levels. The amount of the loan forgiveness will be reduced if the Company terminates employees or reduces salaries during the twenty-four-week period.

The Company has submitted an application for the forgiveness of the loan and accrued interest and is awaiting a response to the submission.

Products Liability Insurance

On March 10, 2019, we entered into a short-term note payable for \$17,688 bearing interest at 5.69% to finance the product liability insurance. Principal and interest payments on this note began April 10, 2019 and are made evenly based on a straight-line amortization over an 11-month period with the final payment being made on February 14, 2020.

Directors' and Officers' Insurance

On July 24, 2020, the Company entered into a short-term note payable for \$413,784 bearing interest at 5.39% to finance a portion of the directors' and officers' liability insurance and employment practices liability insurance premiums. Principal and interest payments on this note began August 24, 2020 and are made evenly based on a straight-line amortization over an 11-month period with the final payment being due on June 24, 2021.

On August 7, 2019 we entered into a short-term note payable for \$254,889 bearing interest at 5.74% to finance a portion of the directors' and officers' liability insurance and employment practices liability insurance premiums. Principal and interest payments on this note began August 24, 2019 and were made evenly based on a straight-line amortization over an 11-month period with the final payment being made on June 22, 2020.

Future Capital Requirements

Our capital requirements for the remainder of 2020 and for 2021 will depend on numerous factors, including the progress of our research and development, the resources we devote to develop and support our technologies and our success in pursuing strategic licensing and funded product development relationships with external partners. Subject to our ability to raise additional capital including through possible joint ventures and/or partnerships, we expect to incur substantial expenditures to further commercialize or develop our technologies including continued increases in costs related to our pending clinical trials research, nonclinical testing and clinical studies, as well as costs associated with our capital raising efforts and being a public company. We will require substantial funds to conduct research and development and nonclinical and clinical testing of our licensed, patented technologies and to develop sublicensing relationships for the clinical testing and manufacture and marketing of any products that are approved for commercial sale. Our plans include seeking both equity and debt financing, alliances or other partnership agreements with entities interested in our technologies, or other business transactions that would generate sufficient resources to ensure continuation of our operations and research and development programs.

Our current available cash and cash equivalents, provide us with limited liquidity. We believe our current available cash and cash equivalents, inclusive of the proceeds from recent warrant exercises, will allow us to fund our operating plan into the first quarter of 2021. We expect to continue to seek additional funding for our operations. Any such required additional capital may not be available on reasonable terms, if at all. If we were unable to obtain additional financing, we may be required to reduce the scope of, delay or eliminate some or all of our planned clinical testing, research and development activities, which could harm our business. The sale of additional equity or debt securities may result in additional dilution to our shareholders. If we raise additional funds through the issuance of debt securities or preferred stock, these securities could have rights senior to those of our common stock and could contain covenants that would restrict our operations. We also will require additional capital beyond our currently forecasted amounts.

For example, as we seek to move forward with the development of TerraCoV2 vaccine candidate and our other product candidates, we will require additional capital. In addition, we continue to pursue other COVID-19 research and development funding opportunities through governmental and nongovernmental sources, as well as potential research collaboration arrangements with academic institutions and other commercial partners. Our ability to advance the development of our TerraCoV2 vaccine candidate at our anticipated pace, in accordance with our NIAID License, is dependent upon our ability to secure additional capital resources through these funding opportunities or an alternative capital raise, such as an equity or debt financing or other strategic business collaboration. Moreover, the global impact of COVID-19 could further impact our need for additional capital if we experience delays in our anticipated timelines or achievement milestones.

Because of the numerous risks and uncertainties associated with research, development and clinical testing of our product candidates, we are unable to estimate the exact amounts of our working capital requirements. Our future funding requirements will depend on many factors, including, but not limited to:

- the availability of grant funding associated with the development of our TerraCoV2 vaccine product candidate;
- the determination to redeem all, or any portion of, our outstanding Series C Preferred Stock;
- the number and characteristics of the product candidates we pursue;
- the scope, progress, results and costs of researching and developing our product candidates, and conducting nonclinical and clinical trials including the research and development expenditures we expect to make in connection with our collaboration agreements with third parties;
- the timing of, and the costs involved in, obtaining regulatory approvals for our product candidates;
- our ability to maintain current research and development licensing agreements and to establish new strategic partnerships, licensing or other arrangements and the financial terms of such agreements;
- our ability to achieve milestones under our licensing arrangements and the payment obligations we may have;
- the costs involved in preparing, filing, prosecuting, maintaining, defending and enforcing patent claims, including litigation costs and the outcome of such litigation; and
- the timing, receipt and amount of sales of, or royalties on, our products and future products, if any.

We have based our estimates on assumptions that may prove to be wrong. We may need to obtain additional funds sooner or in greater amounts than we currently anticipate. Potential sources of financing include strategic relationships, grants, public or private sales of our shares or debt and other sources. We may seek to access the public or private equity markets when conditions are favorable due to our long-term capital requirements. We do not have any committed sources of financing at this time, and it is uncertain whether additional funding will be available when we need it on terms that will be acceptable to us, or at all. If we raise funds by selling additional shares of common stock or other securities convertible into common stock, the ownership interest of our existing stockholders will be diluted. If we are not able to obtain financing when needed, we may be unable to carry out our business plan. As a result, we may have to significantly limit our operations and our business, financial condition and results of operations would be materially harmed.

Critical Accounting Estimates and Policies

Our discussion and analysis of our financial condition and results of operations are based upon our consolidated financial statements, which have been prepared in accordance with accounting principles generally accepted in the United States of America (“US GAAP”). The preparation of consolidated financial statements in accordance with US GAAP requires us to make estimates and assumptions that affect reported amounts and related disclosures. We consider an accounting estimate to be critical if it requires assumptions to be made that were uncertain at the time the estimate was made; and changes in the estimate or different estimates that could have been made could have a material impact on our results of operations or financial condition. The principal areas of estimation reflected in the consolidated financial statements are contingent consideration, stock-based compensation, valuation of warrants, and income tax valuation allowance. For a detailed discussion of our critical accounting estimates, see our Annual Report on Form 10-K for the year ended December 31, 2019. There have been no material changes to our critical accounting estimates during the three and nine months ended September 30, 2020.

Recently Issued Accounting Pronouncements

There are no accounting pronouncements issued or effective during the three and nine months ended September 30, 2020 that have had or are expected to have an impact on our consolidated financial statements.

ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Oragenics, Inc. is a smaller reporting company as defined by Rule 12b-2 of the Securities and Exchange Act of 1934 and is not required to provide the information required under this item.

ITEM 4. CONTROLS AND PROCEDURES

Evaluation of Disclosure Controls and Procedures

Management's evaluation of the effectiveness of the Company's disclosure controls and procedures as defined in Rules 13a-15(e) and 15d-15(e) of the Securities Exchange Act was performed under the supervision and participation of our senior management, including our Chief Executive Officer and Chief Financial Officer. The purpose of disclosure controls and procedures is to ensure that information required to be disclosed in the reports filed or submitted under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms, and that such information is accumulated and communicated to management, including our Chief Executive Officer and Chief Financial Officer, to allow timely decisions regarding required disclosures. Based upon that evaluation, our Chief Executive Officer and Chief Financial Officer concluded that, as of the end of such period, our disclosure controls and procedures were effective as of September 30, 2020 in ensuring that information required to be disclosed by us in reports that we file or submit under the Exchange Act is recorded, processed, summarized and reported with the time periods specified in the Securities and exchange Commission's rules and forms.

Changes in Internal Controls over Financial Reporting

Our management, with the participation of our Chief Executive Officer and Chief Financial Officer, has concluded there were no significant changes in our internal controls over financial reporting that occurred during our last fiscal quarter that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

Limitations on the Effectiveness of Controls

Our management, including our Chief Executive Officer and Chief Financial Officer, does not expect that our Disclosure Controls and internal controls will prevent all errors and all fraud. A control system, no matter how well conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the control system are met. Further, the design of a control system must reflect the fact that there are resource constraints, and the benefits of controls must be considered relative to their costs. Because of the inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that all control issues and instances of fraud, if any, within the Company have been detected. These inherent limitations include the realities that judgments in decision-making can be faulty, and that breakdowns can occur because of a simple error or mistake. Additionally, controls can be circumvented by the individual acts of some persons, by collusion of two or more people, or by management or board override of the control.

The design of any system of controls also is based in part upon certain assumptions about the likelihood of future events, and there can be no assurance that any design will succeed in achieving its stated goals under all potential future conditions; over time, controls may become inadequate because of changes in conditions, or the degree of compliance with the policies or procedures may deteriorate. Because of the inherent limitations in a cost-effective control system, misstatements due to error or fraud may occur and not be detected.

PART II – OTHER INFORMATION

ITEM 1. LEGAL PROCEEDINGS

We are not a party to any pending legal proceeding that is not in the ordinary course of business or otherwise material to our financial condition or business.

ITEM 1A. RISK FACTORS

In addition to the other information set forth in this Form 10-Q, you should carefully consider the factors discussed in Part I, Item 1A, subsection “Risk Factors” of our Annual Report on Form 10-K for the fiscal year ended December 31, 2019 which could materially affect our business, financial condition or future results of operations. The risks described in our Annual Report on Form 10-K for the fiscal year ended December 31, 2019 are not the only risks that we face. Additional risks and uncertainties not currently known to us or that we currently deem to be immaterial may also materially adversely affect our business, financial condition and future results of operations. The following information updates, and should be read in conjunction with, the risk factors previously disclosed in Item 1A, subsection “Risk Factors” to Part I of our Annual Report on Form 10-K for the fiscal year ended December 31, 2019 filed on March 4, 2020, as updated by the Risk Factors set forth in our Form 8-K filed on May 8, 2020. Except as set forth below, there have been no material changes to the risk factors previously disclosed under the caption “Risk Factors” in our Annual Report on Form 10-K, as updated by the Risk Factors set forth in our Form 8-K filed on May 8, 2020.

Risks Related to Our Business

We have incurred significant losses since our inception and expect to continue to experience losses for the foreseeable future.

We have incurred significant net losses and negative cash flow in each year since our inception, including net losses of approximately and \$22.0 million and \$12.0 million for the nine months ended September 30, 2020 and September 30, 2019, respectively, and approximately \$15.6 million and \$11.3 million for the years ended December 31, 2019, and 2018, respectively. As of September 30, 2020, our accumulated deficit was approximately \$150.0 million. We have devoted a significant amount of our financial resources to research and development, including our nonclinical development activities and clinical trials. We expect that the costs associated with our plans to begin preclinical research, contract manufacturing and file an IND for our TerraCoV2 vaccine product candidate and the research and development of our product candidates pursuant to our exclusive channel partnerships with Eleszto Genetika, Inc. (an assignee of Precigen) in the area of lantibiotics (“Lantibiotics Program”) will continue to increase the level of our overall expenses significantly going forward. Additionally, our NIAID license also requires the payment of certain recurring and performance-based royalties that may negatively impact our financial capabilities. As a result, we expect to continue to incur substantial net losses and negative cash flow for the foreseeable future. These losses and negative cash flows have had, and will continue to have, an adverse effect on our shareholders’ equity and working capital. Because of the numerous risks and uncertainties associated with product development and commercialization, we are unable to accurately predict the timing or amount of substantial expenses or when, or if, we will be able to generate the revenue necessary to achieve or maintain profitability.

We will need to raise additional capital in the future to complete the development and commercialization of our product candidates and operate our business.

Developing and commercializing biopharmaceutical products, including conducting nonclinical studies and clinical trials and establishing manufacturing capabilities, and the progress of our efforts to develop and commercialize our product candidates, including our acquisition of a vaccine product candidate is expensive, and can cause us to use our limited, available capital resources faster than we currently anticipate. We anticipate that our cash resources as of September 30, 2020, together with the proceeds from recent warrant exercises, will be sufficient to fund our operations as presently structured into the first quarter of 2021. Our actual costs may ultimately vary from our current expectations, which could materially impact our use of capital and our forecast of the period of time through which our financial resources will be adequate to support our operations. Our current cash, cash equivalents and short-term investments are not sufficient to fully implement our business strategy and sustain our operations. Accordingly, we will need to seek additional sources of financing and such additional financing may not be available on favorable terms, if at all. Until we can generate a sufficient amount of product revenue, if ever, we expect to finance future cash needs through public or private equity offerings, debt financings or corporate or government collaboration and licensing arrangements. If we do not succeed in raising additional funds on acceptable terms, we may be unable to complete existing nonclinical and planned clinical trials or obtain approval of our product candidates from the FDA and other regulatory authorities. We expect capital outlays and operating expenditures to increase over the next several years as we expand our infrastructure, and research and development activities. Specifically, we need to raise additional capital to, among other things:

- conduct preclinical research for our TerraCoV2 vaccine product candidate, file an IND with the FDA and, if approved, engage in Phase 1 clinical trials;

- engage in GMP and non-GMP manufacturing for our product candidates at the preclinical research and clinical trial stages;
- expand our clinical laboratory operations;
- fund our clinical validation study activities;
- expand our research and development activities; and
- finance our capital expenditures and general and administrative expenses.

Our present and future funding requirements will depend on many factors, including:

- the current and continued microeconomic impact of the COVID-19 pandemic on our ability, the ability of our third-party contractors and suppliers to meet our development needs, and the ability of government regulators to conduct ordinary business operations in a timely and efficient manner, as well as the pandemic's broader, macroeconomic impact on the U.S., foreign and global economic markets;
- the level of research and development investment budgeted to develop our current and future product candidates through each phase of development;
- costs of filing, prosecuting, defending and enforcing patent claims and other intellectual property rights;
- our need or decision to acquire or license complementary technologies or acquire complementary businesses;
- changes in test development plans needed to address any difficulties in product candidate selection for commercialization;
- competing technological and market developments;
- our interaction and relationship with the FDA, or other, regulatory agencies; and
- changes in regulatory policies or laws that affect our operations.

Additional capital, if needed, may not be available on satisfactory terms, or at all. Furthermore, if we raise additional funds by issuing equity securities, dilution to our existing stockholders could result. Any equity securities issued also may provide for rights, preferences or privileges senior to those of holders of our common stock. If we raise additional funds by issuing debt securities, these debt securities would have rights, preferences and privileges senior to those of holders of our common stock, and the terms of the debt securities issued could impose significant restrictions on our operations. If we raise additional funds through collaborations and licensing arrangements, we might be required to relinquish significant rights to our technologies or our products under development or grant licenses on terms that are not favorable to us, which could lower the economic value of those programs to us. If adequate funds are not available, we may have to scale back our operations or limit our research and development activities, which may cause us to grow at a slower pace, or not at all, and our business could be adversely affected.

In addition, we could be forced to discontinue product development and commercialization of one or more of our product candidates, curtail or forego sales and marketing efforts, and/or forego licensing attractive business opportunities.

ITEM 2. UNREGISTERED SALE OF EQUITY SECURITIES AND USE OF PROCEEDS

None.

ITEM 3. DEFAULTS UPON SENIOR SECURITIES

None.

ITEM 4. MINE SAFETY DISCLOSURES

Not Applicable.

ITEM 5. OTHER INFORMATION

None.

ITEM 6. EXHIBITS

Incorporated by reference to Exhibits filed after signature page.

EXHIBIT INDEX

Exhibit number	Exhibit description	Incorporated by Reference			Filing date	Filed herewith
		Form	File no.	Exhibit		
3.1	Amended and Restated Articles of Incorporation as amended prior to December 29, 2017 (including certificates of designation of Series A, B and C Preferred Stock)	8-K	001-32188	3.1	12/29/17	
3.2	Articles of Amendment to Amended and Restated Articles of Incorporation dated effective December 29, 2017	8-K	001-32188	3.2	12/29/17	
3.3	Articles of Amendment to Amended and Restated Articles of Incorporation effective January 19, 2018	8-K	001-32188	3.1	1/19/18	
3.4	Articles of Amendment to the Amended and Restated Articles of Incorporation of Orogenics, Inc. Certificate of Designation and Rights of Series D Convertible Preferred Stock	8-K	001-32188	3.1	7/17/18	
3.5	Bylaws	SB-2	333-100568	3.2	10/16/02	
3.6	First Amendment to Bylaws	8-K	001-32188	3.1	6/9/10	
3.7	Second Amendment to Bylaws	8-K	001-32188	3.1	8/24/10	
10.1	Stock Purchase agreement dated May 1, 2020	8-K	001-32188	10.1	5/4/20	
31.1	Certification of Principal Executive Officer pursuant to Rule 13a-14 and Rule 15d-14(a), promulgated under the Securities and Exchange Act of 1934, as amended.					X
31.2	Certification of Principal Financial Officer pursuant to Rule 13a-14 and Rule 15d-14(a), promulgated under the Securities and Exchange Act of 1934, as amended.					X
32.1	Certification pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (Principal Executive Officer).					X
32.2	Certification pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (Chief Financial Officer).					X
101.INS	XBRL Instance Document					
101.SCH	XBRL Taxonomy Extension Schema					X
101.CAL	XBRL Taxonomy Extension Calculation Linkbase					X
101.DEF	XBRL Taxonomy Extension Definition Linkbase					X
101.LAB	XBRL Taxonomy Extension Label Linkbase					X
101.PRE	XBRL Taxonomy Extension Presentation Linkbase					X

*Portions of this exhibit have been redacted in compliance with Regulation S-K Item 601(b)(10).

SIGNATURES

In accordance with the requirements of the Exchange Act, the registrant caused this report to be signed on its behalf by the undersigned, thereunto duly authorized on this 10th day of November, 2020.

ORAGENICS, INC.

BY: /s/ Alan F. Joslyn Ph.D.

Alan F. Joslyn Ph.D., President, Chief Executive
Officer and Principal Executive Officer

BY: /s/ Michael Sullivan

Michael Sullivan, Chief Financial Officer and
Principal Accounting Officer

CERTIFICATION OF CHIEF EXECUTIVE OFFICER

I, Alan Joslyn, certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of Oragenics, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's Board of Directors:
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Dated this 10th day of November, 2020

By: /s/ Alan F. Joslyn Ph.D.

Alan F. Joslyn Ph.D.

President and Chief Executive Officer

CERTIFICATION OF CHIEF FINANCIAL OFFICER

I, Michael Sullivan, certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of Orogenics, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's Board of Directors:
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Dated this 10th day of November, 2020

By: /s/ Michael Sullivan
Michael Sullivan
Chief Financial Officer

Certification of Chief Executive Officer

Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (18 U.S.C. Section 1350)

In connection with the Quarterly Report on Form 10-Q for the quarter ended September 30, 2020 (the "Report") of Oragenics, Inc. (the "Registrant"), as filed with the Securities and Exchange Commission on the date hereof, I, Alan Joslyn, hereby certify, to the best of my knowledge, that:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Registrant.

/s/ Alan F. Joslyn Ph.D.

Name: Alan F. Joslyn Ph.D.

President and Chief Executive Officer

Date: November 10, 2020

Certification of Chief Financial Officer

Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (18 U.S.C. Section 1350)

In connection with the Quarterly Report on Form 10-Q for the quarter ended September 30, 2020 (the "Report") of Oragenics, Inc. (the "Registrant"), as filed with the Securities and Exchange Commission on the date hereof, I, Michael Sullivan, hereby certify, to the best of my knowledge, that:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Registrant.

/s/ Michael Sullivan

Name: Michael Sullivan
Chief Financial Officer

Date: November 10, 2020
