

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, DC 20549

FORM 10-Q

(Mark One)

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

For the quarterly period ended March 31, 2021

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: 001-38085

Ovid Therapeutics Inc.

(Exact Name of Registrant as Specified in its Charter)

Delaware
(State or Other Jurisdiction of
Incorporation or Organization)

46-5270895
(I.R.S. Employer
Identification Number)

1460 Broadway, Suite 15044
New York, New York
(Address of principal executive offices)

10036
(Zip Code)

Registrant's telephone number, including area code: (646) 661-7661

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

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common Stock, par value \$0.001 per share	OVID	The Nasdaq Stock Market LLC

Securities registered pursuant to Section 12(g) of the Act: None

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 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 the 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, a non-accelerated filer, smaller reporting company or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.:

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 checked="" 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

As of May 6, 2021, the registrant had 67,807,266 shares of common stock, \$0.001 par value per share, outstanding.

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SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

This Quarterly Report on Form 10-Q contains forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, or the Securities Act, and Section 21E of the Securities Exchange Act of 1934, as amended, or the Exchange Act. All statements other than statements of historical fact are “forward-looking statements” for purposes of this Quarterly Report on Form 10-Q. In some cases, you can identify forward-looking statements by terminology such as “aim,” “anticipate,” “assume,” “believe,” “contemplate,” “continue,” “could,” “design,” “due,” “estimate,” “expect,” “goal,” “intend,” “may,” “objective,” “plan,” “positioned,” “potential,” “predict,” “project,” “should,” “target,” “will,” “would” or the negative or plural of those terms, and similar expressions.

Forward-looking statements include, but are not limited to, statements about:

- statements regarding the impact of the COVID-19 pandemic and its effects on our operations, access to capital, research and development and clinical trials and potential disruption in the operations and business of third-party manufacturers, contract research organizations, or CROs, other service providers, and collaborators with whom we conduct business;
- our estimates regarding expenses, future revenue, capital requirements and needs for additional financing;
- our ability to identify additional novel compounds with significant commercial potential to acquire or in-license;
- our ability to successfully acquire or in-license additional drug candidates on reasonable terms;
- our ability to obtain regulatory approval of our current and future drug candidates;
- our expectations regarding the potential market size and the rate and degree of market acceptance of such drug candidates;
- our ability to fund our working capital requirements;
- the implementation of our business model and strategic plans for our business and drug candidates;
- developments or disputes concerning our intellectual property or other proprietary rights;
- our ability to maintain and establish collaborations or obtain additional funding;
- our expectations regarding government and third-party payor coverage and reimbursement;
- our ability to compete in the markets we serve;
- the impact of government laws and regulations;
- developments relating to our competitors and our industry; and
- the factors that may impact our financial results.

Factors that may cause actual results to differ materially from current expectations include, among other things, those set forth in Part I, Item 1A, “Risk Factors,” herein and for the reasons described elsewhere in this Quarterly Report on Form 10-Q. Any forward-looking statement in this Quarterly Report on Form 10-Q reflects our current view with respect to future events and is subject to these and other risks, uncertainties and assumptions relating to our operations, results of operations, industry and future growth. Given these uncertainties, you should not rely on these forward-looking statements as predictions of future events. Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee future results, levels of activity, performance or achievements. Except as required by law, we assume no obligation to update or revise these forward-looking statements for any reason, even if new information becomes available in the future.

This Quarterly Report on Form 10-Q also contains estimates, projections and other information concerning our industry, our business and the markets for certain drugs and consumer products, including data regarding the estimated size of those markets, their projected growth rates and the incidence of certain medical conditions. Information that is based on estimates, forecasts, projections or similar methodologies is inherently subject to uncertainties and actual events or circumstances may differ materially from events and circumstances reflected in this information. Unless otherwise expressly stated, we obtained these industry, business, market and other data from reports, research surveys, studies and similar data prepared by third parties, industry, medical and general publications, government data and similar sources and we have not independently verified the data from third party sources. In some cases, we do not expressly refer to the sources from which these data are derived.

In this Quarterly Report on Form 10-Q, unless otherwise stated or as the context otherwise requires, references to “Ovid,” “the Company,” “we,” “us,” “our” and similar references refer to Ovid Therapeutics Inc. and its wholly owned subsidiaries. This Quarterly Report on Form 10-Q also contains references to our trademarks and to trademarks belonging to other entities. Solely for convenience, trademarks and trade names referred to, including logos, artwork and other visual displays, may appear without the ® or TM symbols, but such references are not intended to indicate, in any way, that their respective owners will not assert, to the fullest extent under applicable law, their rights thereto. We do not intend our use or display of other companies’ trade names or trademarks to imply a relationship with, or endorsement or sponsorship of us by, any other companies.

SUMMARY OF SELECTED RISKS ASSOCIATED WITH OUR BUSINESS

Our business is subject to numerous risks and uncertainties, including those discussed at length in the section titled “Risk Factors.” These risks include, among others, the following:

- We have incurred significant operating losses since inception and expect to continue to incur substantial operating losses for the foreseeable future.
- We have never generated any revenue from drug sales. Our operating history may make it difficult to evaluate the success of our business to date and to assess our future viability.
- We will require additional capital to finance our operations, which may not be available on acceptable terms, if at all. Failure to obtain this necessary capital when needed may force us to delay, limit or terminate certain of our drug development efforts or other operations.
- Our future success is dependent on the successful clinical development, regulatory approval and commercialization of our current and future drug candidates. If we, or our licensees, are not able to obtain required regulatory approvals, we will not be able to commercialize our drug candidates, and our ability to generate revenue will be adversely affected.
- Because the results of preclinical studies or earlier clinical trials are not necessarily predictive of future results, our drug candidates may not have favorable results in planned or future preclinical studies or clinical trials, or may not receive regulatory approval.
- Interim topline and preliminary results from our clinical trials that we announce or publish from time to time may change as more patient data become available and are subject to audit and verification procedures, which could result in material changes in the final data.
- We may encounter substantial delays in our clinical trials or we may fail to demonstrate safety and efficacy to the satisfaction of applicable regulatory authorities.
- If we are not successful in discovering, developing and commercializing additional drug candidates, our ability to expand our business and achieve our strategic objectives would be impaired.
- Our drug candidates may cause undesirable side effects or have other properties that could delay or prevent their regulatory approval, limit the commercial potential or result in significant negative consequences following any potential marketing approval.
- Even if our current or future drug candidates receive marketing approval, they may fail to achieve market acceptance by physicians, patients, third-party payors or others in the medical community necessary for commercial success.
- If we are unable to establish sales and marketing capabilities, or enter into agreements with third parties to market and sell our current or any future drug candidates, we may be unable to generate any revenue from drug sales.
- We may be required to make significant payments in connection with our license of OV101 from H. Lundbeck A/S.
- Our relationships with customers, physicians, and third-party payors may be subject, directly or indirectly, to federal and state healthcare fraud and abuse laws, false claims laws, health information privacy and security laws, and other healthcare laws and regulations. If we are unable to comply, or have not fully complied, with such laws, we could face substantial penalties.
- Coverage and adequate reimbursement may not be available for our current or any future drug candidates, which could make it difficult for us to sell profitably, if approved.
- If we are unable to obtain and maintain patent protection for our current or any future drug candidates, or if the scope of the patent protection obtained is not sufficiently broad, we may not be able to compete effectively in our markets.
- We may be involved in lawsuits to protect or enforce our patents, the patents of our licensors or our other intellectual property rights, which could be expensive, time consuming and unsuccessful.
- We do not have our own manufacturing capabilities and will rely on third parties to produce clinical and commercial supplies of our current and any future drug candidates.
- We intend to rely on third parties to conduct, supervise and monitor our preclinical studies and clinical trials, and if those third parties perform in an unsatisfactory manner, it may harm our business.
- COVID-19 could adversely impact our business, including our clinical trials and access to capital.
- We may need to expand our organization, and we may experience difficulties in managing this growth, which could disrupt our operations.
- We may be subject to numerous and varying privacy and security laws, and our failure to comply could result in penalties and reputational damage.

PART I—FINANCIAL INFORMATION

Item 1. Financial Statements.

OVID THERAPEUTICS INC.
Condensed Consolidated Balance Sheets

	March 31, 2021	December 31, 2020
Assets	(unaudited)	
Current assets:		
Cash and cash equivalents	\$ 233,051,160	\$ 72,033,930
Related party receivable	1,023,791	141,763
Prepaid expenses and other current assets	2,587,099	2,667,508
Total current assets	236,662,050	74,843,201
Long-term prepaid expenses	252,055	477,171
Security deposit	150,626	150,626
Property and equipment, net	128,491	135,620
Other assets	262,808	318,900
Total assets	<u>\$ 237,456,030</u>	<u>\$ 75,925,518</u>
Liabilities and Stockholders' Equity		
Current liabilities:		
Accounts payable	\$ 3,147,558	\$ 5,446,206
Accrued expenses	13,198,532	12,032,685
Deferred revenue, current	-	2,212,892
Related party payable	-	2,370,992
Total current liabilities	16,346,090	22,062,775
Deferred revenue, net of current portion	-	10,169,887
Related party payable - noncurrent	-	61,200
Total liabilities	<u>16,346,090</u>	<u>32,293,862</u>
Stockholders' equity:		
Preferred stock, \$0.001 par value; 10,000,000 shares authorized; Series A convertible preferred stock, 10,000 shares designated, 1,250 and 3,250 shares issued and outstanding at March 31, 2021 and December 31, 2020 respectively	\$ 1	\$ 3
Common stock, \$0.001 par value; 125,000,000 shares authorized; 67,787,826 and 65,743,170 shares issued and outstanding at March 31, 2021 and December 31, 2020, respectively	67,788	65,743
Additional paid-in-capital	339,226,941	337,758,007
Accumulated other comprehensive income	-	-
Accumulated deficit	(118,184,790)	(294,192,097)
Total stockholders' equity	221,109,940	43,631,656
Total liabilities and stockholders' equity	<u>\$ 237,456,030</u>	<u>\$ 75,925,518</u>

See accompanying notes to these unaudited condensed consolidated financial statements

OID THERAPEUTICS INC.
Condensed Consolidated Statements of Operations
(unaudited)

	For The Three Months Ended March 31, 2021	For The Three Months Ended March 31, 2020
Revenue:		
License and other revenue	\$ 12,382,779	\$ -
License revenue - related party	196,000,000	-
Total revenue	208,382,779	-
Operating expenses:		
Research and development	\$ 16,248,909	\$ 14,625,367
General and administrative	15,576,554	5,669,019
Total operating expenses	31,825,463	20,294,386
Income (loss) from operations	176,557,316	(20,294,386)
Other (expenses) income, net	(49,732)	264,296
Income (loss) before provision for income taxes	176,507,584	(20,030,090)
Provision for income taxes	500,277	-
Net income (loss)	\$ 176,007,307	\$ (20,030,090)
Net income (loss) per share, basic	\$ 2.55	\$ (0.37)
Net income (loss) per share, diluted	\$ 2.53	\$ (0.37)
Weighted-average common shares outstanding, basic	66,088,592	54,715,610
Weighted-average common shares outstanding, diluted	66,578,377	54,715,610

See accompanying notes to these unaudited condensed consolidated financial statements

OVID THERAPEUTICS INC.
Condensed Consolidated Statements of Comprehensive Income (Loss)
(unaudited)

	For The Three Months Ended March 31, 2021	For The Three Months Ended March 31, 2020
Net income (loss)	\$ 176,007,307	\$ (20,030,090)
Other comprehensive income:		
Unrealized gain on available-for-sale securities	-	63,235
Comprehensive income (loss)	<u>\$ 176,007,307</u>	<u>\$ (19,966,855)</u>

See accompanying notes to these unaudited condensed consolidated financial statements

OID THERAPEUTICS INC.
Condensed Consolidated Statements of Stockholders' Equity
(unaudited)

	Series A Convertible Preferred Stock		Common Stock		Additional Paid-In Capital	Accumulated Other Comprehensive Income	Accumulated Deficit	Total
	Shares	Amount	Shares	Amount				
Balance, December 31, 2020	3,250	\$ 3	65,743,170	\$ 65,743	\$ 337,758,007	\$ -	\$ (294,192,097)	\$ 43,631,656
Stock-based compensation expense	-	-	-	-	1,320,002	-	-	1,320,002
Issuance of common stock from employee stock purchase plan	-	-	34,256	34	130,139	-	-	130,173
Issuance of common stock from exercise of stock options	-	-	10,400	11	20,791	-	-	20,802
Conversion of series A convertible preferred stock to common stock	(2,000)	(2)	2,000,000	2,000	(1,998)	-	-	-
Net income	-	-	-	-	-	-	176,007,307	176,007,307
Balance, March 31, 2021	<u>1,250</u>	<u>\$ 1</u>	<u>67,787,826</u>	<u>\$ 67,788</u>	<u>\$ 339,226,941</u>	<u>\$ -</u>	<u>\$ (118,184,790)</u>	<u>\$ 221,109,940</u>

	Series A Convertible Preferred Stock		Common Stock		Additional Paid-In Capital	Accumulated Other Comprehensive Income	Accumulated Deficit	Total
	Shares	Amount	Shares	Amount				
Balance, December 31, 2019	7,762	\$ 8	54,710,322	\$ 54,711	\$ 283,122,894	\$ 2,469	\$ (213,156,521)	\$ 70,023,561
ATM offering costs	-	-	-	-	2,053	-	-	2,053
Stock-based compensation expense	-	-	-	-	1,302,931	-	-	1,302,931
Issuance of common stock from employee stock purchase plan	-	-	43,743	43	83,067	-	-	83,110
Other comprehensive income	-	-	-	-	-	63,235	-	63,235
Net loss	-	-	-	-	-	-	(20,030,090)	(20,030,090)
Balance, March 31, 2020	<u>7,762</u>	<u>\$ 8</u>	<u>54,754,065</u>	<u>\$ 54,754</u>	<u>\$ 284,510,945</u>	<u>\$ 65,704</u>	<u>\$ (233,186,611)</u>	<u>\$ 51,444,800</u>

See accompanying notes to these unaudited condensed consolidated financial statements

OID THERAPEUTICS INC.
Condensed Consolidated Statements of Cash Flows
(unaudited)

	Three Months Ended March 31, 2021	Three Months Ended March 31, 2020
Cash flows from operating activities:		
Net income (loss)	\$ 176,007,307	\$ (20,030,090)
Adjustments to reconcile net income (loss) to cash used in operating activities:		
Stock-based compensation expense	1,320,002	1,302,931
Depreciation and amortization expense	74,735	66,879
Change in accrued interest and accretion of discount on short-term investments	-	(130,328)
Change in operating assets and liabilities:		
Prepaid expenses and other current assets	80,409	(86,809)
Security deposit	-	(18,446)
Related party receivable	(882,028)	756,894
Long-term prepaid expenses	225,116	72,969
Accounts payable	(2,277,334)	932,005
Accrued expenses	1,165,847	(1,277,734)
Deferred revenue	(12,382,779)	-
Related party payable	(2,432,192)	-
Net cash provided by (used in) operating activities	<u>160,899,083</u>	<u>(18,411,729)</u>
Cash flows from investing activities:		
Purchases of short-term investments	-	(9,961,092)
Proceeds from maturities of short-term investments	-	14,000,000
Purchase of property and equipment	(11,514)	(14,139)
Software development and other assets	-	(188,842)
Net cash (used in) provided by investing activities	<u>(11,514)</u>	<u>3,835,927</u>
Cash flows from financing activities:		
ATM offering costs	(21,314)	(67,575)
Proceeds from employee stock purchase plan	130,173	83,110
Proceeds from exercise of options	20,802	-
Net cash provided by financing activities	<u>129,661</u>	<u>15,535</u>
Net increase (decrease) in cash and cash equivalents	161,017,230	(14,560,267)
Cash and cash equivalents, at beginning of period	72,033,930	41,897,144
Cash and cash equivalents, at end of period	<u>\$ 233,051,160</u>	<u>\$ 27,336,877</u>
Non-cash investing and financing activities:		
Purchase of property and equipment in accounts payable	\$ —	\$ 38,534

See accompanying notes to these unaudited condensed consolidated financial statements

OID THERAPEUTICS INC.
NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS
(unaudited)

NOTE 1 – NATURE OF OPERATIONS

Ovid Therapeutics Inc. (the “Company”) was incorporated under the laws of the state of Delaware on April 1, 2014 and maintains its principal executive office in New York, New York. The Company commenced operations on April 1, 2014 (date of inception). The Company is a biopharmaceutical company focused exclusively on developing impactful medicines for patients and families living with rare neurological disorders.

Since its inception, the Company has devoted substantially all of its efforts to business development, research and development, recruiting management and technical staff, and raising capital, and has financed its operations through issuance of convertible preferred stock (“Preferred Stock”), common stock and other equity instruments. The Company is subject to risks and uncertainties common to early-stage companies in the biotechnology industry, including, but not limited to, development and regulatory success, development by competitors of new technological innovations, dependence on key personnel, protection of proprietary technology, compliance with government regulations, and ability to secure additional capital to fund operations.

Historically, the Company’s major sources of cash have been composed of proceeds from various public and private offerings of its capital stock and interest income. As of March 31, 2021, the Company had approximately \$233.1 million in cash and cash equivalents. Since inception, the Company has generated \$221.0 million in revenue, which comprises \$25.0 million received pursuant to the Company’s license and collaboration agreement (the “Angelini License Agreement”) with Angelini Pharma Rare Diseases AG (“Angelini”) and a one-time, upfront payment of \$196.0 million received pursuant to the Company’s royalty, license and termination agreement (the “Takeda License and Termination Agreement”) with Takeda Pharmaceutical Company Limited (“Takeda”). The Company has incurred recurring losses, has experienced negative operating cash flows and requires significant cash resources to execute its business plans. The Company has an accumulated deficit of \$118.2 million as of March 31, 2021, working capital of \$220.3 million and had cash provided by operating activities of \$160.9 million for the three months ended March 31, 2021.

Although the Company recorded net income of \$176.0 million during the three months ended March 31, 2021, the Company expects to incur losses in subsequent periods for at least the next several years and is highly dependent on its ability to find additional sources of funding through either equity offerings, debt financings, collaborations, strategic alliances, licensing agreements or a combination of any such transactions. Management believes that the Company’s existing cash and cash equivalents as of March 31, 2021 will be sufficient to fund its current operating plans through at least the next 12 months from the date of filing of the Company’s Quarterly Report on Form 10-Q. Adequate additional funding may not be available to the Company on acceptable terms or at all. The failure to raise capital as and when needed could have a negative impact on the Company’s financial condition and ability to pursue its business strategy. The Company may be required to delay, reduce the scope of or eliminate research and development programs, or obtain funds through arrangements with collaborators or others that may require the Company to relinquish rights to certain drug candidates that the Company might otherwise seek to develop or commercialize independently.

We have implemented business continuity plans designed to address and mitigate the impact of the COVID-19 pandemic on our business. The extent to which the ongoing COVID-19 pandemic impacts our business, our clinical development and regulatory efforts, our corporate development objectives and the value of and market for our common stock, will depend on future developments that are highly uncertain and cannot be predicted with confidence at this time, such as the ultimate duration of the pandemic, travel restrictions, quarantines, social distancing and business closure requirements in the U.S., Europe and other countries, and the effectiveness of actions taken globally to contain and treat the disease. The global economic slowdown, the overall disruption of global healthcare systems and the other risks and uncertainties associated with the pandemic could have a material adverse effect on our business, financial condition, results of operations and growth prospects.

In addition, we are subject to other challenges and risks specific to our business and our ability to execute on our strategy, as well as risks and uncertainties common to companies in the pharmaceutical industry with development and commercial operations, including, without limitation, risks and uncertainties associated with: obtaining regulatory approval of our late-stage product candidates; delays or problems in the supply of our products, loss of single source suppliers or failure to comply with manufacturing regulations; identifying, acquiring or in-licensing additional products or product candidates; pharmaceutical product development and the inherent uncertainty of clinical success; and the challenges of protecting and enhancing our intellectual property rights; complying with applicable regulatory requirements. In addition, to the extent the ongoing COVID-19 pandemic adversely affects our business and results of operations, it may also have the effect of heightening many of the other risks and uncertainties discussed above.

NOTE 2 – SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

The Company’s significant accounting policies are described in Note 2, “Summary of Significant Accounting Policies,” in the Company’s Annual Report on Form 10-K filed with the U.S. Securities and Exchange Commission (“SEC”) on March 15, 2021. There have been no material changes to the significant accounting policies during the period ended March 31, 2021, except for items mentioned below.

(A) Unaudited Interim Condensed Consolidated Financial Statements

The interim condensed consolidated balance sheet at March 31, 2021, the condensed consolidated statements of operations, comprehensive income (loss), cash flows, and stockholders’ equity for the three months ended March 31, 2021 and 2020 are unaudited. The accompanying unaudited condensed consolidated financial statements have been prepared in accordance with U.S. generally accepted accounting principles (“GAAP”) and following the requirements of the SEC for interim reporting. As permitted under those rules, certain footnotes or other financial information that are normally required by GAAP are condensed or omitted. These condensed consolidated financial statements have been prepared on the same basis as

the Company's annual financial statements and, in the opinion of management, reflect all adjustments, consisting only of normal recurring adjustments that are necessary for a fair statement of its financial information. The results of operations for the three months ended March 31, 2021 and 2020 are not necessarily indicative of the results to be expected for the year ending December 31, 2021 or for any other future annual or interim period. The balance sheet as of December 31, 2020 included herein was derived from the audited financial statements as of that date. These interim condensed consolidated financial statements should be read in conjunction with the Company's audited financial statements as of and for the year ended December 31, 2020 included in the Company's Annual Report on Form 10-K.

(B) Basis of Presentation and Consolidation

The accompanying consolidated financial statements have been prepared in conformity with GAAP and include the accounts of Ovid Therapeutics Inc. and its wholly owned subsidiary, Ovid Therapeutics Hong Kong Limited. All intercompany transactions and balances have been eliminated in consolidation.

(C) Use of Estimates

The preparation of financial statements in conformity with 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 financial statements and the reported amounts of income and expenses during the reporting period. Actual results could differ materially from those estimates.

(D) Fair Value of Financial Instruments

Financial Accounting Standards Board ("FASB") guidance specifies a hierarchy of valuation techniques based on whether the inputs to those valuation techniques are observable or unobservable. Observable inputs reflect market data obtained from independent sources, while unobservable inputs reflect market assumptions. The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1 measurement) and the lowest priority to unobservable inputs (Level 3 measurement).

The three levels of the fair value hierarchy are as follows:

- Level 1—Unadjusted quoted prices in active markets for identical assets or liabilities that the reporting entity has the ability to access at the measurement date. Level 1 primarily consists of financial instruments whose value is based on quoted market prices such as exchange-traded instruments and listed equities. The Company's Level 1 assets consisted of money market funds and short-term investments totaling \$231.2 million and \$70.1 million as of March 31, 2021 and December 31, 2020, respectively.
- Level 2—Inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly or indirectly (e.g., quoted prices of similar assets or liabilities in active markets, or quoted prices for identical or similar assets or liabilities in markets that are not active). Level 2 includes financial instruments that are valued using models or other valuation methodologies. The Company had no Level 2 assets or liabilities as of March 31, 2021 and December 31, 2020.
- Level 3—Unobservable inputs for the asset or liability. Financial instruments are considered Level 3 when their fair values are determined using pricing models, discounted cash flows or similar techniques and at least one significant model assumption or input is unobservable. The Company had no Level 3 assets or liabilities as of March 31, 2021 and December 31, 2020.

The carrying amounts reported in the balance sheets for cash and cash equivalents, related party receivable, other current assets, accounts payable, accrued expenses, and current related party payable approximate their fair value based on the short-term maturity of these instruments.

(E) Revenue Recognition

Under ASC 606, an entity recognizes revenue when its customer obtains control of promised goods or services, in an amount that reflects the consideration that the entity expects to receive in exchange for those goods or services. In applying ASC 606, the Company performs the following five steps: (i) identify the contract(s) with a customer; (ii) identify the promises and performance obligations in the contract; (iii) determine the transaction price; (iv) allocate the transaction price to the performance obligations in the contract; and (v) recognize revenue when (or as) it satisfies the performance obligations. The Company only applies the five-step model to contracts when it is probable that it will collect the consideration to which it is entitled in exchange for the goods or services we transfer to the customer. At contract inception, once the contract is determined to be within the scope of ASC 606, the Company assesses the goods or services promised within each contract, determines those that are performance obligations and assesses whether each promised good or service is distinct. The Company then recognizes as revenue the amount of the transaction price that is allocated to the respective performance obligation when (or as) the performance obligation is satisfied.

Prior to recognizing revenue, the Company makes estimates of the transaction price, including variable consideration that is subject to a constraint. Amounts of variable consideration are included in the transaction price to the extent that it is probable that a significant reversal in the amount of cumulative revenue recognized will not occur and when the uncertainty associated with the variable consideration is subsequently resolved.

If there are multiple distinct performance obligations, the Company allocates the transaction price to each distinct performance obligation based on its relative standalone selling price. The standalone selling price is generally determined using expected cost and comparable transactions. Revenue for performance obligations recognized over time is recognized by measuring the progress toward complete satisfaction of the performance obligations using an input measure.

Non-refundable upfront fees allocated to licenses that are not contingent on any future performance and require no consequential continuing involvement by the Company, are recognized as revenue when the license term commences and the licensed data, technology or product is delivered. The Company defers recognition of upfront license fees if the performance obligations are not satisfied.

(F) Net Income (Loss) Per Share

Net income (loss), basic per share is calculated by dividing the net income attributable to common stockholders by the weighted-average number of shares of common stock outstanding. The Company applies the two-class method to allocate earnings between common stock and participating securities.

Net income (loss), diluted per share attributable to common stockholders adjusts the basic earnings per share attributable to common stockholders and the weighted-average number of shares of common stock outstanding for the potential dilutive impact of stock options, using the treasury-stock method.

(G) Recent Accounting Pronouncements

Recent accounting standards which have been adopted

In June 2016, the FASB issued ASU No. 2016-13, Financial Instruments – Credit Losses (Topic 326): Measurement of Credit Losses on Financial Instruments. This new standard requires the measurement and recognition of expected credit losses for financial assets held at amortized cost, including loans and trade and other receivables. ASU 2016-13 replaces the existing incurred loss impairment model with an expected loss methodology, which will result in more timely recognition of credit losses. The standard also amends the impairment model for available-for-sale debt securities and requires entities to determine whether all or a portion of the unrealized loss on an available-for-sale debt security is a credit loss. Under the new guidance, an entity recognizes an allowance for credit losses on available-for-sale debt securities as a contra-account to the amortized cost basis rather than as a direct reduction of the amortized cost basis of the investment, as was previously required. ASU 2016-13 is effective for annual reporting periods, and interim periods within those years, beginning after December 15, 2019. As of March 31, 2021, the Company did not hold any debt securities with credit losses, nor does it have any trade receivables. The adoption of this standard effective January 1, 2020 did not have a material impact on the Company's consolidated financial statements.

On August 29, 2018, the FASB issued ASU No. 2018-15, Intangibles – Goodwill and Other - Internal-Use Software (Subtopic 350-40) - which amends ASC 350-40 to address a customer's accounting for implementation costs incurred in a cloud computing arrangement ("CCA") that is a service contract. ASU No. 2018-15 aligns the accounting for costs incurred to implement a CCA that is a service arrangement with the guidance on capitalizing costs associated with developing or obtaining internal-use software. Specifically, the ASU amends ASC 350 to include in its scope implementation costs of a CCA that is a service contract and clarifies that a customer should apply ASC 350-40 to determine which implementation costs should be capitalized in a CCA that is considered a service contract. According to the standard the balance sheet line item for the presentation of capitalized implementation costs should be the same as that for the prepayment of fees related to the hosting arrangement and the manner in which an entity classifies the cash flows related to capitalized implementation costs should be the same as that in which it classifies the cash flows for the fees related to the hosting arrangement. ASU 2018-15 is effective for the Company for fiscal years beginning after December 15, 2019, including interim periods therein. Entities are permitted to apply either a retrospective or prospective transition approach to adopt the guidance. The adoption of this standard effective January 1, 2020 did not have a material impact on the Company's consolidated financial statements and was adopted prospectively.

On November 5, 2018, the FASB issued ASU 2018-18, Collaborative Arrangements (Topic 808) - which amends ASC 808 to clarify when transactions between participants in a collaborative arrangement under ASC 808 are within the scope of the FASB's new revenue standard, ASU 2014-09 (codified in ASC 606). The amendments require the application of ASC 606 existing guidance to determine the units of account that are distinct in a collaborative arrangement for purposes of identifying transactions with customers. If a unit of account within the collaborative arrangement is distinct and is with a customer, an entity shall apply the guidance in Topic 606 to that unit of account. In a transaction between collaborative participants, an entity is precluded by ASU 2018-18 from presenting a transaction together with "revenue from contracts with customers" unless the unit of account is within the scope of ASC 606 and the entity applies the guidance in ASC 606 to such unit of account. The amended guidance is effective for public business entities for fiscal years beginning after December 15, 2019, and interim periods within those fiscal years. The retrospective adoption of this standard effective January 1, 2020 did not have a material impact on the Company's consolidated financial statements.

In October 2020, the FASB issued ASU 2020-10, Codification Improvements, which updates various codification topics by clarifying or improving disclosure requirements. ASU 2020-10 is effective for annual and interim periods beginning after December 15, 2020. The Company early adopted ASU 2020-10 for the reporting period ending December 31, 2020. The adoption of this update did not have a material effect on the Company's consolidated financial statements.

NOTE 3 – CASH EQUIVALENTS AND SHORT-TERM INVESTMENTS

All short-term investments are classified as available-for-sale. The following tables summarize the fair value of cash, cash equivalents and short-term investments, as well as gross unrealized holding gains and losses as of March 31, 2021 and December 31, 2020:

	March 31, 2021			
	Amortized cost	Gross unrealized holding gains	Gross unrealized holding losses	Fair value
Cash	\$ 1,857,457	\$ -	\$ -	\$ 1,857,457
Money market funds	231,193,703	-	-	231,193,703
Total cash and cash equivalents	\$ 233,051,160	\$ -	\$ -	\$ 233,051,160

	December 31, 2020			
	Amortized cost	Gross unrealized holding gains	Gross unrealized holding losses	Fair value
Cash	\$ 1,977,320	\$ -	\$ -	\$ 1,977,320
Money market funds	70,056,610	-	-	70,056,610
Total cash and cash equivalents	\$ 72,033,930	\$ -	\$ -	\$ 72,033,930

The Company did not hold any securities that were in an unrealized loss position for more than 12 months as of March 31, 2021 and December 31, 2020.

There were no material realized gains or losses on available-for-sale securities during the three months ended March 31, 2021 and 2020.

NOTE 4 – PROPERTY AND EQUIPMENT AND INTANGIBLE ASSETS

Property and equipment is summarized as follows:

	March 31, 2021	December 31, 2020
Furniture and equipment	\$ 332,471	\$ 320,957
Less accumulated depreciation	(203,980)	(185,337)
Total property and equipment, net	\$ 128,491	\$ 135,620

Depreciation expense was \$19,000 and \$12,000 for the three months ended March 31, 2021 and 2020, respectively.

Intangible assets, net of accumulated amortization was \$263,000 and \$319,000 as of March 31, 2021 and December 31, 2020, respectively, and are included in other assets. Amortization expense was \$56,000 and \$55,000 for the three months ended March 31, 2021 and 2020, respectively.

NOTE 5 – ACCRUED EXPENSES

Accrued expenses consist of the following:

	March 31, 2021	December 31, 2020
Clinical trials accrual	\$ 2,211,228	\$ 4,175,497
Payroll and bonus accrual	1,194,988	3,845,441
Professional fees accrual	9,119,031	3,846,211
Other	673,285	165,536
Total	\$ 13,198,532	\$ 12,032,685

NOTE 6 – STOCKHOLDERS' EQUITY AND PREFERRED STOCK

The Company's capital structure consists of common stock and Preferred Stock. Pursuant to the Company's amended and restated certificate of incorporation, as amended, the Company is authorized to issue up to 125,000,000 shares of common stock and 10,000,000 shares of Preferred Stock. The Company has designated 10,000 of the 10,000,000 authorized shares of Preferred Stock as non-voting Series A Convertible Preferred Stock ("Series A Preferred Stock").

The holders of common stock are entitled to one vote for each share held. The holders of common stock have no preemptive or other subscription rights, and there are no redemption or sinking fund provisions with respect to such shares. Subject to preferences that may apply to any outstanding series of Preferred Stock, holders of the common stock are entitled to receive ratably any dividends declared on a non-cumulative basis. Shares of Series A Preferred Stock will be entitled to receive dividends at a rate equal to (on an as-if-converted-to-common stock basis), and in the same form and manner as, dividends actually paid on shares of common stock. The common stock is subordinate to all series of Preferred Stock with respect to rights upon liquidation, winding up and dissolution of the Company. The holders of common stock are entitled to liquidation proceeds after all liquidation preferences for the Preferred Stock are satisfied.

In November 2020, the Company entered into a sales agreement (the “2020 ATM agreement”) with Cowen and Company, LLC (“Cowen”), under which the Company may offer and sell in “at the market offerings,” from time to time at its sole discretion, shares of its common stock having an aggregate offering price of up to \$75.0 million through Cowen acting as sales agent. As of March 31, 2021, the Company has not sold any shares of its common stock under the 2020 ATM agreement.

There were 1,250 and 3,250 shares of Series A Preferred Stock outstanding as of March 31, 2021 and December 31, 2020, respectively. Each share of Series A Preferred Stock is convertible into 1,000 shares of common stock at any time at the holder’s option. However, the holder will be prohibited, subject to certain exceptions, from converting shares of Series A Preferred Stock into shares of common stock if, as a result of such conversion, the holder, together with its affiliates, would own more than, at the written election of the holder, either 9.99% or 14.99% of the total number of shares of common stock then issued and outstanding, which percentage may be changed at the holder’s election to any other number less than or equal to 19.99% upon 61 days’ notice to the Company; provided, however, that effective 61 days after delivery of such notice, such beneficial ownership limitations shall not be applicable to any holder that beneficially owns either 10.0% or 15.0%, as applicable based on the holder’s initial written election noted above, of the total number of shares of common stock issued and outstanding immediately prior to delivery of such notice. In the event of a liquidation, dissolution, or winding up of the Company, holders of Series A Preferred Stock will receive a payment equal to \$0.001 per share of Series A Preferred Stock before any proceeds are distributed to the holders of common stock.

In March 2021, certain of the Company’s stockholders elected to convert an aggregate of 2,000 shares of Series A Preferred Stock owned by such holders into an aggregate of 2,000,000 shares of the Company’s common stock.

In August 2020, the Company sold 6,250,000 shares of its common stock at a public offering price of \$8.00 per share, for net proceeds of \$46.7 million after deducting underwriting discounts and commissions and other offering expenses payable by the Company, (the “August 2020 Offering”).

In May 2020, entities affiliated with Biotechnology Value Fund, L.P. elected to convert an aggregate of 2,256 shares of Series A Preferred Stock owned by such holders into an aggregate of 2,256,000 shares of the Company’s common stock.

Dividends

Holders of Series A preferred stock are entitled to receive dividends at a rate equal to (on an as-if-converted-to-common stock basis), and in the same form and manner as, dividends (other than dividends in the form of the issuance of common stock) actually paid on shares of common stock. Through March 31, 2021, the Company has not declared any dividends.

NOTE 7 – STOCK-BASED COMPENSATION

The Company’s Board of Directors adopted and the Company’s stockholders approved the 2017 equity incentive plan (“2017 Plan”), which became effective immediately on May 4, 2017. The initial reserve of shares of common stock under the 2017 Plan was 3,052,059 shares. The 2017 Plan provides for the grant of incentive stock options, non-statutory stock options, restricted stock awards, restricted stock unit awards, stock appreciation rights, performance-based stock awards, and other forms of stock-based awards. Additionally, the 2017 Plan provides for the grant of performance cash awards. The Company’s employees, officers, directors and consultants and advisors are eligible to receive awards under the 2017 Plan. Upon the adoption of the 2017 Plan, no further awards will be granted under the Company’s prior plan. Pursuant to the terms of the 2017 Plan, on each January 1st, the plan limit shall be increased by the lesser of (x) 5% of the number of shares of common stock outstanding as of the immediately preceding December 31 and (y) such lesser number as the Board of Directors may determine in its discretion. On January 1, 2021 and January 1, 2020, respectively, an additional 3,287,158 and 2,735,516 shares were reserved for issuance under the 2017 Plan. As of March 31, 2021, there were 4,443,769 shares of the Company’s common stock reserved and available for issuance under the 2017 Plan.

The Company’s Board of Directors adopted, and the Company’s stockholders approved the 2017 employee stock purchase plan (the “2017 ESPP”), which became effective immediately prior to the execution of the underwriting agreement related to the Company’s initial public offering on May 4, 2017. The initial reserve of shares of common stock that may be issued under the 2017 ESPP was 279,069 shares. On March 20, 2017, the Company’s Compensation Committee approved an offering period under the 2017 ESPP, which began on October 20, 2017. The ESPP allows employees to purchase common stock of the Company at a 15% discount to the market price on designated purchase dates. During the three months ended March 31, 2021 and 2020, 34,256 and 43,743 shares were purchased under the ESPP and the Company recorded expense of \$19,000 and \$20,000, respectively. The number of shares of common stock reserved for issuance under the 2017 ESPP will automatically increase on January 1 of each year, beginning on January 1, 2018 and continuing through and including January 1, 2027, by the lesser of (i) 1% of the total number of shares of the Company’s common stock outstanding on December 31 of the preceding calendar year, (ii) 550,000 shares or (iii) such lesser number of shares determined by our Board. The Board acted prior to each of January 1, 2020 and January 1, 2021 to provide that there be no increase in the number of shares reserved for issuance under the 2017 ESPP on either such date. As of March 31, 2021, there were 519,296 shares of the Company’s common stock reserved for issuance under the 2017 ESPP.

Unless specified otherwise in an individual option agreement, stock options granted under the prior plan and the 2017 Plan generally have a ten-year term and a four-year graded vesting period. The vesting requirement is generally conditioned upon the grantee's continued service with the Company during the vesting period. Once vested, all awards are exercisable from the date of grant until they expire. The option grants are non-transferable. Vested options generally remain exercisable for 90 days subsequent to the termination of the option holder's service with the Company. In the event of option holder's death or disability while employed by or providing service to the Company, the exercisable period extends to 12 months.

Performance-based option awards generally have similar terms, with vesting commencing on the date the performance condition is achieved and expire in accordance with the specific terms of the agreement. At March 31, 2021, there were 50,000 performance-based options outstanding and unvested that include options to be granted upon the achievement of certain research and development milestones.

The fair value of options granted during the three months ended March 31, 2021 and 2020 was estimated using the Black-Scholes option valuation model. The inputs for the Black-Scholes option valuation model require management's significant assumptions and are detailed in the table below. The risk-free interest rates were based on the rate for U.S. Treasury securities at the date of grant with maturity dates approximately equal to the expected life at the grant date. The expected life was based on the simplified method in accordance with the SEC Staff Accounting Bulletin No. Topic 14D. The expected volatility was estimated based on historical volatility information of peer companies that are publicly available.

All assumptions used to calculate the grant date fair value of nonemployee options are generally consistent with the assumptions used for options granted to employees. In the event the Company terminates any of its consulting agreements, the unvested options underlying the agreements would also be cancelled.

The Company granted zero and 10,000 stock options to nonemployee consultants for services rendered during the three months ended March 31, 2021 and 2020, respectively. There were 27,188 and 133,946 unvested nonemployee options outstanding as of March 31, 2021 and 2020, respectively. Total expense recognized related to the nonemployee stock options for the three months ended March 31, 2021 and 2020, was \$35,000 and \$36,000, respectively. Total unrecognized compensation expenses related to the nonemployee stock options was \$152,000 as of March 31, 2021. The Company did not recognize any expense for nonemployee performance-based option awards during the three months ended March 31, 2021 and 2020.

The Company granted 643,600 and 520,300 stock options to employees during the three months ended March 31, 2021 and 2020 respectively. There were 5,156,000 and 4,112,758 unvested employee options outstanding as of March 31, 2021, and 2020, respectively. Total expense recognized related to the employee stock options for the three months ended March 31, 2021 and 2020 was \$1.3 million and \$1.2 million, respectively. Total unrecognized compensation expense related to employee stock options was \$12.2 million as of March 31, 2021. During the three months ended March 31, 2021 and 2020, the Company recognized zero and \$38,000, respectively, in expenses for employee performance-based option awards.

The Company's stock-based compensation expense was recognized in operating expense as follows:

	Three Months Ended March 31,	
	2021	2020
Research and development	\$ 458,035	\$ 564,136
General and administrative	861,967	738,795
Total	<u>\$ 1,320,002</u>	<u>\$ 1,302,931</u>

	Three Months Ended March 31,	
	2021	2020
Stock options	\$ 1,301,214	\$ 1,283,171
Employee Stock Purchase Plan	18,788	19,760
Total	<u>\$ 1,320,002</u>	<u>\$ 1,302,931</u>

The fair value of employee options granted during the three months ended March 31, 2021 and 2020 was estimated by utilizing the following assumptions:

	Three Months Ended March 31,	
	2021	2020
	Weighted Average	Weighted Average
Volatility	80.40%	77.43%
Expected term in years	6.08	6.08
Dividend rate	0.00%	0.00%
Risk-free interest rate	0.65%	1.42%
Fair value of option on grant date	\$ 2.18	\$ 2.49

The fair value of nonemployee options granted during the three months ended March 31, 2021 and 2020 was estimated by utilizing the following assumptions:

	Three Months Ended March 31,	
	2021	2020
	Weighted Average	Weighted Average
Volatility	73.90%	77.40%
Expected term in years	5.88	6.08
Dividend rate	0.00%	0.00%
Risk-free interest rate	2.36%	1.40%
Fair value of option on measurement date	\$ 1.15	\$ 2.45

The following table summarizes the number of options outstanding and the weighted average exercise price:

	Number of Shares	Weighted Average Exercise Price	Weighted Average Remaining Contractual Life in Years	Aggregate Intrinsic Value
Options outstanding December 31, 2020	10,403,420	\$ 5.26	7.59	\$ 652,438
Granted	643,600	3.18	9.47	
Exercised	(10,400)	2.00		\$ 6,836
Forfeited or expired	(28,439)	3.52		
Options outstanding March 31, 2021	<u>11,008,181</u>	<u>\$ 5.15</u>	7.39	\$ 6,453,789
Vested and exercisable at March 31, 2021	<u>5,824,393</u>	<u>\$ 6.35</u>	5.96	\$ 2,522,609

At March 31, 2021 there was approximately \$12.4 million of unamortized share-based compensation expense related to employee and nonemployee grants, which is expected to be recognized over a remaining average vesting period of 2.99 years.

NOTE 8 – INCOME TAXES

The Company's interim income tax provision consists of U.S. federal and state income taxes based on the estimated annual effective tax rate that the Company expects for the full year together with the tax effect of discrete items. Each quarter the Company updates its estimate of the annual effective tax rate and records cumulative adjustments as necessary. As of March 31, 2021, the estimated annual effective tax rate for 2021, exclusive of discrete items, is approximately 0.28% of projected pre-tax income. The estimated annual tax expense consists of a provision for state and local income taxes.

For the three months ended March 31, 2021, the Company recorded a state income tax expense of \$500,000 on a pre-tax income of \$176.5 million. The Company did not record a U.S. federal income tax provision due to available net operating losses and research and development credit carryforwards.

For the three months ended March 31, 2020, the Company did not record a U.S. federal or state income tax provision due to current and historical net operating losses.

In assessing the realizability of deferred tax assets, the Company's management evaluates whether it is more likely than not that some portion or all of the deferred tax assets will be realized. The ultimate realization of deferred tax assets is dependent upon the generation of future taxable income in those periods in which temporary differences become deductible and/or net operating losses can be utilized. Management assesses all positive and negative evidence when determining the amount of the net deferred tax assets that are more likely than not to be realized. This evidence includes, but is not limited to, prior earnings history, scheduled reversal of taxable temporary differences, tax planning strategies and projected future taxable income. Significant weight is given to positive and negative evidence that is objectively verifiable. Based on these factors, including cumulative losses in recent years, the Company continues to maintain a full valuation allowance against its net deferred tax assets as of March 31, 2021.

NOTE 9 – COMMITMENTS AND CONTINGENCIES

License Agreements

On March 26, 2015, the Company entered into an exclusive agreement with H. Lundbeck A/S ("Lundbeck") for a worldwide perpetual licensing right related the research, development and commercialization of OV101 (the "Lundbeck Agreement"). On May 10, 2019, the parties amended the Lundbeck License.

Pursuant to the amended Lundbeck license agreement, the Company agreed to make milestone payments totaling up to \$189.0 million upon the achievement of certain development, regulatory and sales milestones. The first payment of \$1.0 million is due upon the successful completion of the

first Phase 3 trial for a product in which OV101 is an active ingredient. In addition, the agreement calls for the Company to pay royalties for an initial term based on a low double-digit percentage of sales and provides for the reduction of royalties in certain limited circumstances.

In December 2016, the Company entered into a license agreement with Northwestern University (“Northwestern”), pursuant to which Northwestern granted the Company an exclusive, worldwide license to patent rights in certain inventions (the “Northwestern Patent Rights”) which relate to a specific compound and related methods of use for such compound, along with certain Know-How related to the practice of the inventions claimed in the Northwestern Patents.

Under the Northwestern agreement, the Company was granted exclusive rights to research, develop, manufacture and commercialize products utilizing the Northwestern Patent Rights for all uses. The Company has agreed that it will not use the Northwestern Patent Rights to develop any products for the treatment of cancer, but Northwestern may not grant rights in the technology to others for use in cancer. The Company also has an option, exercisable during the term of the agreement to an exclusive license under certain intellectual property rights covering novel compounds with the same or similar mechanism of action as the primary compound that is the subject of the license agreement. Northwestern has retained the right, on behalf of itself and other non-profit institutions, to use the Northwestern Patent Rights and practice the inventions claimed therein for educational and research purposes and to publish information about the inventions covered by the Northwestern Patent Rights.

Upon entry into the Northwestern agreement, the Company paid an upfront non-creditable one-time license issuance fee of \$75,000, and is required to pay an annual license maintenance fee of \$20,000, which will be creditable against any royalties payable to Northwestern following first commercial sale of licensed products under the agreement. The Company is responsible for all ongoing costs of filing, prosecuting and maintaining the Northwestern Patents, but also has the right to control such activities using its own patent counsel. In consideration for the rights granted to the Company under the Northwestern agreement, the Company is required to pay to Northwestern up to an aggregate of \$5.3 million upon the achievement of certain development and regulatory milestones for the first product covered by the Northwestern Patents, and, upon commercialization of any such products, will be required to pay to Northwestern a tiered royalty on net sales of such products by the Company, its affiliates or sublicensees, at percentages in the low to mid-single-digits, subject to standard reductions and offsets. The Company’s royalty obligations continue on a product-by-product and country-by-country basis until the later of the expiration of the last-to-expire valid claim in a licensed patent covering the applicable product in such country and 10 years following the first commercial sale of such product in such country. If the Company sublicenses a Northwestern Patent Right, it will be obligated to pay to Northwestern a specified percentage of sublicense revenue received by the Company, ranging from the high single digits to the low teens.

The Northwestern agreement requires that the Company use commercially reasonable efforts to develop and commercialize at least one product that is covered by the Northwestern Patent Rights.

Unless earlier terminated, the Northwestern agreement will remain in force until the expiration of the Company’s payment obligations thereunder. The Company has the right to terminate the agreement for any reason upon prior written notice or for an uncured material breach by Northwestern. Northwestern may terminate the agreement for the Company’s uncured material breach or insolvency.

As of March 31, 2021, none of these contingent payments were considered probable.

Contingencies

Liabilities for loss contingencies arising from claims, assessments, litigation, fines, and penalties and other sources are recorded when it is probable that a liability has been incurred and the amount can be reasonably estimated. Legal costs incurred in connection with loss contingencies are expensed as incurred. The Company is not currently involved in any legal matters arising in the normal course of business.

Under the terms of their respective employment agreements, certain of our executive officers are eligible to receive severance payments and benefits upon a termination without “cause” or due to “permanent disability,” or upon “resignation for good reason,” contingent upon the executive officer’s delivery to the Company of a satisfactory release of claims, and subject to the executive officer’s compliance with non-competition and non-solicitation restrictive covenants.

NOTE 10 – COLLABORATION AGREEMENTS

Angelini Collaboration

On July 9, 2020, the Company entered into the Angelini License Agreement with Angelini, pursuant to which the Company granted to Angelini exclusive rights to develop and commercialize OV101, a selective agonist of the GABA_A receptor, for the treatment of Angelman syndrome in the European Economic Area as well as Switzerland, the United Kingdom, Russia and Turkey (the “European Territory”). On March 29, 2021, the Company received a notice of termination of the Angelini License Agreement. Subsequently, Angelini and the Company mutually agreed to waive the six month termination notice provisions and the Angelini License Agreement terminated effective March 31, 2021. The Company has been released from its performance obligations and will not be entitled to any future milestone payments under the Angelini License Agreement.

The Company evaluated the Angelini License Agreement to determine whether it is a collaborative arrangement for purposes of ASC 808. The Company concluded that because Angelini is not the ultimate decision maker or the legal owner of the license, Angelini is not considered an active participant and therefore the Angelini License Agreement is outside of the scope of ASC 808. The Company concluded that Angelini is a customer with regard to the combined license and research and development activities and as such the Angelini License Agreement should be evaluated under ASC 606.

The Company identified the following material promises under the Angelini License Agreement: (1) licensing of intellectual property with respect to OV101 (2) completion of certain ongoing trials (3) transfer of a specified amount of compound and related information (4) potential for funding 35% of the cost for Angelini future trials limited to \$7.0 million and (5) completion of the manufacturing process technology transfer.

The Company determined that the \$7.0 million represented a potential payment to a customer and was deferred. The transfer of compound and related information is considered a contingent milestone payment that will be recognized upon acceptance by Angelini of the milestone. The Company further determined that the license and the completion of ongoing trials are distinct from each other, as each has value without the other. As such, for the purposes of ASC 606, the Company determined that these two material promises, represent distinct performance obligations.

The Company determined the transaction price is equal to the upfront fee of \$20.0 million. The transaction price was allocated based on the standalone selling price of the license and the ongoing trials.

Pursuant to the Angelini License Agreement and during the year ended December 31, 2020, Angelini made an upfront payment to the Company of \$20.0 million. Upon the transfer of the specified amount of compound and related information and acceptance by Angelini, Angelini paid the Company an additional \$5.0 million. This performance obligation was determined to be variable consideration which was constrained and not considered part of the upfront transaction price allocation.

During the three months ended March 31, 2021 and effective upon termination of the Angelini License Agreement, the Company recognized \$12.4 million of revenue consisting of \$5.4 million of license revenue related to ongoing trials and the \$7.0 million related to the potential 35% funding of the cost for Angelini future trials.

Takeda Collaboration

On January 6, 2017, the Company entered into a license and collaboration with Takeda, to jointly develop and commercialize the compound TAK-935, under which the Company licensed from Takeda certain exclusive rights to develop and commercialize OV935 (soticlestat), in certain territories.

In March 2021, the Company entered into the Takeda License and Termination Agreement with Takeda, pursuant to which Takeda secured rights to the Company's 50% global share in soticlestat, which the Company had originally licensed from Takeda, and the Company granted to Takeda an exclusive worldwide license under the Company's relevant intellectual property rights to develop and commercialize the investigational medicine OV935 for the treatment of developmental and epileptic encephalopathies, including Dravet syndrome and Lennox-Gastaut syndrome.

Under the Takeda License and Termination Agreement, all rights in OV935 are owned by Takeda or exclusively licensed to Takeda by the Company. Takeda assumed all responsibility for, and costs of, both development and commercialization of soticlestat, and the Company will no longer have any financial obligation to Takeda under the original collaboration agreement, including for milestone payments or any future development and commercialization costs. On March 29, 2021 upon the closing of the Takeda License and Termination Agreement, the Company received an upfront payment of \$196.0 million and will be eligible to receive up to an additional \$660.0 million upon achieving development, regulatory and sales milestones. In addition, the Company will be entitled to receive tiered royalties beginning in the low double-digits, and up to 20% on sales of soticlestat if it achieves regulatory approval. Royalties are payable on a country-by-country and product-by-product basis during the period beginning on the date of the first commercial sale of such product in such country and ending on the later to occur of the expiration of patent rights covering the product in such country and a specified anniversary of such first commercial sale.

The Company identified the following material promises under the Takeda License and Termination Agreement: (1) no later than the second business day prior to the closing of the Takeda License and Termination Agreement (the "Closing Date"), the Company and Takeda were required to agree on an estimate of the development expenses that accrued, or would accrue, under the original collaboration agreement as of March 31, 2021; (2) on the Closing Date, the Company was required to (i) provide and transfer to Takeda the materials, information and data relating to the OV935 program, including clinical trial data and results, as further set forth in the Takeda License and Termination Agreement, (ii) assign to Takeda certain agreements applicable to the OV935 program, and (iii) assign to Takeda all of its right, title and interest in, to and under all intellectual property rights developed or created pursuant to the original collaboration agreement and owned jointly by the Company and Takeda as of the Closing Date; (3) within 45 days after March 31, 2021, the Company and Takeda are required to provide a written report to the finance officer designated by the other party setting forth a final total of the development expenses that accrued as of March 31, 2021 and, within 10 business days after receipt of such report, the finance officers shall agree on whether a net settlement payment is due from Takeda to the Company or from the Company to Takeda; and (4) within 75 days after the Closing Date, to the extent not provided on the Closing Date, Ovid shall provide to Takeda (i) any materials, information and data relating to the OV935 program, including clinical trial data and results, as further set forth in the Takeda License and Termination Agreement, (ii) other documents (including all expired agreements and related data developed thereunder) to the extent relating to the OV935 program that are necessary for the exploitation, development, commercialization and manufacture of OV935, as further set forth in the Takeda License and Termination Agreement and (iii) any tangible embodiments of the intellectual property rights controlled by Ovid that are reasonably necessary for, used in or held for use in Takeda's exploitation of the OV935 program.

The Company determined the transaction price is equal to the upfront fee of \$196.0 million and is associated with all four performance obligations identified above. It is noted that the incremental effort associated with performance obligations three and four is negligible and not material in the context of the Takeda License and Termination Agreement since all of the information is related to the collaboration period for which the Company already has the information readily available. Therefore, since they are not material in the context of the Takeda License and Termination Agreement, the full upfront fee will be allocated to the two performance obligations satisfied at closing.

During the three months ended March 31, 2021, the Company recognized a credit in research and development expenses of \$2.6 million and expenses of \$0.1 million in general and administrative representing costs to be reimbursed to the Company from Takeda. During the three months ended March 31, 2020, the Company recognized a credit in research and development expenses of \$0.4 representing costs to be reimbursed to the Company from Takeda.

NOTE 11 – RELATED PARTY TRANSACTIONS

In March 2021, the Company entered into the Takeda License and Termination Agreement with Takeda. For a description of the Takeda License and Termination Agreement, see Note 10.

In May 2020, entities affiliated with Biotechnology Value Fund, L.P. elected to convert an aggregate of 2,256 shares of Series A Preferred Stock owned by such holders into an aggregate of 2,256,000 shares of the Company's common stock.

In August 2020, the Company issued and sold an aggregate of 1,250,000 shares of common stock to entities affiliated with Biotechnology Value Fund, L.P., an existing stockholder for aggregate gross proceeds of \$10.0 million.

NOTE 12 – NET INCOME (LOSS) PER SHARE

Basic net income (loss) per share is calculated based upon the weighted-average number of common shares outstanding during the period, excluding outstanding stock options that have been issued but are not yet vested. Diluted net income (loss) per share is calculated based upon the weighted-average number of common shares outstanding during the period plus the dilutive impact of weighted-average common equivalent shares outstanding during the period. The potentially dilutive shares of common stock resulting from the assumed exercise of outstanding stock options were determined under the treasury stock method.

The Basic and diluted net income (loss) per common share is presented in conformity with the two-class method required for participating securities and multiple classes of shares. The Company considers the preferred shares to be participating securities.

For any period in which the Company records net income, undistributed earnings allocated to the participating securities are subtracted from net income in determining net income attributable to common stockholders. The undistributed earnings have been allocated based on the participation rights of preferred shares and common shares as if the earnings for the year have been distributed. For periods in which the Company recognizes a net loss, undistributed losses are allocated only to common shares as the participating securities do not contractually participate in the Company's losses. Basic net income (loss) per share is computed by dividing the net income (loss) attributable to common stockholders by the weighted-average number of common shares outstanding during the period. Participating securities are excluded from basic weighted-average common shares outstanding.

The following table summarizes the calculation of basic and diluted net income (loss) per share:

	March 31,	
	2021	2020
Net income (loss)	\$ 176,007,307	\$ (20,030,090)
Net income attributable to participating securities	(7,439,355)	-
Net income (loss) attributable to common stockholders	\$ 168,567,952	\$ (20,030,090)

	March 31,	
	2021	2020
Net income (loss) attributable to common stockholders	\$ 168,567,952	\$ (20,030,090)
Weighted-average common shares outstanding, basic	66,088,592	54,715,610
Dilutive effect of outstanding stock options	489,784	-
Weighted-average common shares outstanding, diluted	66,578,377	54,715,610
Net income (loss) per share, basic	\$ 2.55	\$ (0.37)
Net income (loss) per share, diluted	\$ 2.53	\$ (0.37)

The following potentially dilutive securities have been excluded from the computations of diluted weighted-average shares outstanding as they would be anti-dilutive:

	<u>March 31,</u>	
	<u>2021</u>	<u>2020</u>
Stock options to purchase common stock	10,518,397	7,879,568
Series A convertible preferred stock	-	7,762

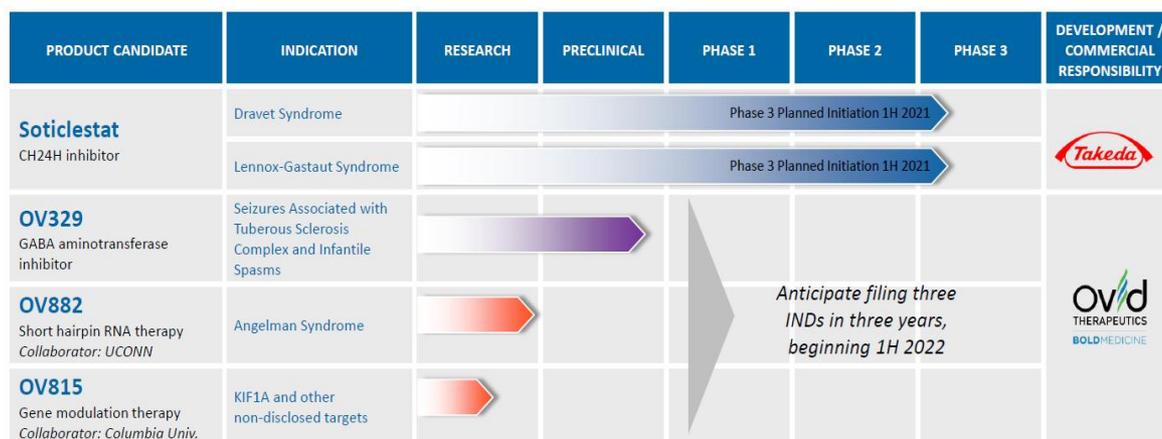
Item 2. Management’s Discussion and Analysis of Financial Condition and Results of Operations

The following information should be read in conjunction with the unaudited condensed consolidated financial statements and the notes thereto included in this Quarterly Report on Form 10-Q and the audited financial information and the notes thereto included in the Annual Report on Form 10-K for the year ended December 31, 2020, which was filed with the Securities and Exchange Commission (“SEC”) on March 15, 2021. In addition to historical financial information, the following discussion contains forward-looking statements based upon our current plans, expectations and beliefs that involve risks, uncertainties and assumptions. Our actual results may differ materially from those described in or implied by these forward-looking statements because of many factors, including those set forth under the section titled “Risk Factors” in Part II, Item 1A. Such factors may be amplified by the ongoing COVID-19 pandemic and its potential impact on our business and the global economy.

Overview

We are a biopharmaceutical company focused on developing impactful medicines for patients and families living with rare neurological disorders. We believe these disorders represent an attractive area for drug development as the understanding of the underlying biology has grown meaningfully over the last few years and today represent a substantial opportunity medically and commercially. Based on the rapid increase in scientific understanding of the role of genetics and key biological pathways relevant to diseases of the brain, we aim to identify, discover and develop novel compounds for the treatment of rare neurological disorders. We have built a deep knowledge of such diseases, how to treat them and how to develop the clinically meaningful endpoints required for development of a compound in these disorders. As a result of this knowledge, we have developed a pipeline of first-in-class compounds and programs and have demonstrated our model by progressing compounds through to late-stage development. We continue to execute on our strategy to build this pipeline by discovering in-licensing and collaborating with leading biopharmaceutical companies and academic institutions.

Our latest pipeline includes two late-stage programs and several earlier stage programs.



Since our inception in April 2014, we have devoted substantially all of our efforts to organizing and planning our business, building our management and technical team, acquiring operating assets and raising capital.

During the three months ended March 31, 2021, we generated \$208.4 million of license and other revenue through our Collaboration and License Agreement (“the Angelini License Agreement”) with Angelini Pharma Rare Diseases AG (“Angelini”) and our Royalty, License and Termination agreement (the “Takeda License and Termination Agreement”) with Takeda Pharmaceutical Company Limited (“Takeda”) and have otherwise funded our business primarily through the sale of our capital stock. Through March 31, 2021, we have raised net proceeds of \$275.4 million from the sale of our convertible preferred stock and our common stock. As of March 31, 2021, we had \$233.1 million in cash and cash equivalents. We recorded net income of \$176.0 million for the three months ended March 31, 2021 and net losses \$20.0 million for the three months ended March 31, 2020. As of March 31, 2021, we had an accumulated deficit of \$118.2 million.

Although we recorded net income of \$176.0 million during the three months ended March 31, 2021, we expect to incur significant expenses and increasing operating losses for at least the next several years. Our net losses may fluctuate significantly from period to period, depending on the timing of our planned preclinical studies and clinical trials and expenditures on our other research and development and commercial development activities. We expect our expenses will increase substantially over time as we:

- continue the ongoing and planned preclinical and clinical development of our drug candidates;
- build a portfolio of drug candidates through the development, acquisition or in-license of drugs, drug candidates or technologies;
- initiate preclinical studies and clinical trials for any additional drug candidates that we may pursue in the future;
- seek marketing approvals for our current and future drug candidates that successfully complete clinical trials;

- establish a sales, marketing and distribution infrastructure to commercialize any drug candidate for which we may obtain marketing approval;
- develop, maintain, expand and protect our intellectual property portfolio;
- implement operational, financial and management systems; and
- attract, hire and retain additional administrative, clinical, regulatory, manufacturing, commercial and scientific personnel.

Recent Developments

Takeda License and Termination Agreement

In March 2021, we entered into the Takeda License and Termination Agreement with Takeda, pursuant to which Takeda secured rights to our 50% global share in soticlestat, which we had originally licensed from Takeda, and we granted to Takeda an exclusive, worldwide license under our relevant intellectual property rights to develop and commercialize the investigational medicine OV935 for the treatment of developmental and epileptic encephalopathies, including Dravet syndrome and Lennox-Gastaut syndrome.

Notice of Termination of the Angelini License Agreement

We received Notice of Termination dated March 29, 2021 from Angelini, and we and Angelini subsequently agreed that the Angelini License Agreement terminated effective March 31, 2021. Following termination of the Angelini License Agreement, the Company was released from its performance obligations and will not be entitled to any future milestone payments under the Agreement.

Discontinuation of Development of OV101

In April 2021, we announced that we will discontinue development of OV101 (gaboxadol), a delta (δ)-selective GABAA receptor agonist, in Angelman syndrome, and that we do not plan to initiate further clinical studies of OV101 in Fragile X syndrome. As a result, we intend to reprioritize our resources to focus on the development of our robust early-stage pipeline, including OV882, a short hairpin RNA therapy targeting UBE3A gene expression in neurons, as a potential treatment for Angelman syndrome.

COVID-19 Update

We have implemented business continuity plans designed to address and mitigate the impact of the ongoing COVID-19 pandemic on our employees and our business. We continue to operate normally with the exception of enabling all of our employees to work productively at home and abiding by travel restrictions issued by federal, state and local governments. Our current plans to return to the office remain fluid as federal, state and local guidelines, rules and regulations continue to evolve.

Financial Operations Overview

Revenue

Since inception, we recognized \$25.0 million of revenue under the Angelini License Agreement and \$196.0 million in connection with the Takeda License and Termination Agreement. We have not generated any revenue from commercial drug sales and do not expect to generate any revenue from commercial drug sales unless or until we obtain regulatory approval of and commercialize one or more of our current or future drug candidates. In the future, we may generate revenue from a combination of research and development payments, license fees and other upfront or milestone payments.

Research and Development Expenses

Research and development expenses consist primarily of costs incurred for our research activities, including our product discovery efforts and the development of our product candidates, which include, among other things:

- employee-related expenses, including salaries, benefits and stock-based compensation expense;
- fees paid to consultants for services directly related to our drug development and regulatory effort;
- expenses incurred under agreements with contract research organizations, as well as contract manufacturing organizations and consultants that conduct preclinical studies and clinical trials;
- costs associated with preclinical activities and development activities;
- costs associated with technology and intellectual property licenses;
- milestone payments and other costs under licensing agreements; and
- depreciation expense for assets used in research and development activities.

Costs incurred in connection with research and development activities are expensed as incurred. Costs for certain development activities, such as clinical trials, are recognized based on an evaluation of the progress to completion of specific tasks using data such as patient enrollment, clinical site activations or other information provided to us by our vendors.

Research and development activities are and will continue to be central to our business model. We expect our research and development expenses to increase over the next several years as we advance our current and future drug candidates through preclinical studies and clinical trials. The process of conducting preclinical studies and clinical trials necessary to obtain regulatory approval is costly and time-consuming. It is difficult to determine with certainty the duration and costs of any preclinical study or clinical trial that we may conduct. The duration, costs and timing of clinical trial programs and development of our current and future drug candidates will depend on a variety of factors that include, but are not limited to, the following:

- number of clinical trials required for approval and any requirement for extension trials;
- per patient trial costs;
- number of patients who participate in the clinical trials;
- number of sites included in the clinical trials;
- countries in which the clinical trial is conducted;
- length of time required to enroll eligible patients;
- number of doses that patients receive;
- drop-out or discontinuation rates of patients;
- potential additional safety monitoring or other studies requested by regulatory agencies;
- duration of patient follow-up; and
- efficacy and safety profile of the drug candidate.

In addition, the probability of success for any of our current or future drug candidates will depend on numerous factors, including competition, manufacturing capability and commercial viability. We will determine which programs to pursue and how much to fund each program in response to the scientific and clinical success of each drug candidate, as well as an assessment of each drug candidate's commercial potential.

General and Administrative Expenses

General and administrative expenses consist primarily of employee-related expenses, including salaries, benefits and stock-based compensation expense, related to our executive, finance, business development and support functions. Other general and administrative expenses include costs associated with operating as a public company described below, travel expenses, conferences, professional fees for auditing, tax and legal services and facility-related costs.

Other (Expenses) Income, Net

Other (expense) income consists of interest income earned on our cash and cash equivalents maintained in money market funds and prior short-term investments that were maintained in U.S. treasury notes.

Results of Operations

Comparison of the Three Months Ended March 31, 2021 and 2020

The following table summarizes the results of our operations for the periods indicated:

	<u>Three Months Ended March 31, 2021</u>	<u>Three Months Ended March 31, 2020</u>	<u>Change</u>
	(in thousands)		
Revenue:			
License and other revenue	\$ 12,383	\$ -	\$ 12,383
License revenue - related party	196,000	-	196,000
Total revenue	208,383	-	208,383
Operating expenses:			
Research and development	\$ 16,249	\$ 14,625	\$ 1,624
General and administrative	15,577	5,669	9,908
Total operating expenses	31,825	20,294	11,531
Income (loss) from operations	176,557	(20,294)	196,851
Other (expense) income, net	(50)	264	(314)
Income (loss) before provision for income taxes	176,508	(20,030)	196,538
Provision for income taxes	500	-	500
Net income (loss)	<u>\$ 176,007</u>	<u>\$ (20,030)</u>	<u>\$ 196,037</u>

Revenue

Total revenue was \$208.4 million for the three months ended March 31, 2021. We did not generate any revenue during the three months ended March 31, 2020. The increase in total revenue was due to \$12.4 million of revenue recorded in connection with the Angelini License Agreement and \$196.0 million of revenue recorded in connection with the Takeda License and Termination Agreement.

Research and Development Expenses

	<u>Three Months Ended March 31, 2021</u>	<u>Three Months Ended March 31, 2020</u>	<u>Change</u>
	(in thousands)		
Preclinical and development expenses	\$ 11,136	\$ 9,752	\$ 1,384
Payroll and payroll-related expenses	3,917	3,922	(5)
Other expenses	1,196	951	245
Total research and development	<u>\$ 16,249</u>	<u>\$ 14,625</u>	<u>\$ 1,624</u>

Research and development expenses were \$16.2 million for the three months ended March 31, 2021 compared to \$14.6 million for the three months ended March 31, 2020. The increase of \$1.6 million included a decrease in preclinical and development expenses for the clinical studies of OV101 and an increase in Takeda collaboration expenses related to OV935. During the three months ended March 31, 2021 total research and development expenses consisted of \$11.1 million in preclinical and development expenses, including a credit of \$2.6 million representing costs to be reimbursed to us from Takeda in respect of the Takeda collaboration, \$3.9 million in payroll and payroll-related expenses, of which \$0.5 million related to stock-based compensation, and \$1.2 million in other expenses. During the three months ended March 31, 2020, total research and development expenses consisted of \$9.8 million in preclinical and development expenses, including a credit of \$0.4 million representing costs to be reimbursed to us from Takeda in respect of the Takeda collaboration, \$3.9 million in payroll and payroll-related expenses, of which \$0.6 million related to stock-based compensation, and \$1.0 million in other expenses.

General and Administrative Expenses

	<u>Three Months Ended March 31, 2021</u>	<u>Three Months Ended March 31, 2020</u>	<u>Change</u>
	(in thousands)		
Payroll and payroll-related expenses	\$ 3,785	\$ 2,780	\$ 1,005
Legal and professional fees	10,753	1,932	8,821
General office expenses	1,039	958	81
Total general and administrative	<u>\$ 15,577</u>	<u>\$ 5,669</u>	<u>\$ 9,907</u>

General and administrative expenses were \$15.6 million for the three months ended March 31, 2021 compared to \$5.7 million for the three months ended March 31, 2020. The increase of \$9.9 million was primarily due to an increase in legal fees and professional fees of \$8.8 million, which includes \$8.2 million of one-time fees related to the Takeda License and Termination Agreement, an increase in payroll and payroll-related expenses of \$1.0 million and an increase in general office expenses of \$0.1 million.

Other (Expense) Income, net

Other expense was \$0.1 million for the three months ended March 31, 2021. Other income was \$0.3 million for the three months ended March 31, 2020.

Liquidity and Capital Resources

Overview

As of March 31, 2021, we had total cash and cash equivalents of \$233.1 million as compared to \$72.0 million of cash and cash equivalents as of December 31, 2020. The \$161.1 million increase in total cash and cash equivalents was due primarily to the one-time upfront payment of \$196.0 million received as part of the Takeda License and Termination Agreement offset by operating expenses of \$31.8 million for the three months ended March 31, 2021.

In November 2020, we filed a new shelf registration statement on Form S-3 (Registration No. 333-250054) that allows us to sell up to an aggregate of \$250.0 million of our common stock, preferred stock, debt securities and/or warrants (the “S-3 Registration Statement”), which includes a prospectus covering the issuance and sale of up to \$75.0 million of common stock pursuant to an at-the-market (“ATM”) offering program. As of March 31, 2021, we had \$250.0 million available under our S-3 Registration Statement, including \$75.0 million available pursuant to our ATM program.

Similar to other development stage biotechnology companies, we have generated limited revenue, which has been through the Angelini License Agreement. With the exception of the three months ended March 31, 2021, when we received the one-time upfront payment of \$196.0 million as part of the Takeda License and Termination Agreement, we have incurred losses and experienced negative operating cash flows since our inception and anticipate that we will continue to incur losses for at least the next several years. We recorded net income of approximately \$176.0 million and net losses of \$20.0 million for the three months ended March 31, 2021 and 2020, respectively. We expect to incur net losses in subsequent periods. As of March 31, 2021, we had an accumulated deficit of \$118.2 million and working capital of \$220.3 million.

We believe that our existing cash and cash equivalents as of March 31, 2021 will be sufficient to fund our current operating plans through at least the next 12 months from the date of the filing of this Quarterly Report on Form 10-Q.

We plan to finance our cash needs through either equity offerings, debt financings, collaborations, strategic alliances, or licensing agreements or a combination of any such transactions. To the extent that we raise additional capital through future equity offerings or debt financings, ownership interests may be diluted, and the terms of these securities may include liquidation or other preferences that adversely affect your rights as a common stockholder. Debt and equity financings, if available, may involve agreements that include covenants limiting or restricting our ability to take specific actions, such as incurring additional debt, making capital expenditures or declaring dividends. There can be no assurance that such financings will be obtained on terms acceptable to us, if at all. The ongoing COVID-19 pandemic continues to rapidly evolve and has already resulted in a significant disruption of global financial markets. If the disruption persists and deepens, we could experience an inability to access additional capital, which could in the future negatively affect our operations. If we raise additional funds through collaborations, strategic alliances or licensing agreements with third parties for one or more of our current or future drug candidates, we may be required to relinquish valuable rights to our technologies, future revenue streams, research programs or drug candidates or to grant licenses on terms that may not be favorable to us. Our failure to raise capital as and when needed would have a material adverse effect on our financial condition and our ability to pursue our business strategy.

Cash Flows

The following table summarizes our cash flows for the periods indicated:

	Three Months Ended March 31, 2021	Three Months Ended March 31, 2020
	<u>(in thousands)</u>	<u></u>
Net cash provided by (used in):		
Operating activities	\$ 160,899	\$ (18,412)
Investing activities	(12)	3,836
Financing activities	130	16
Net increase (decrease) in cash and cash equivalents	<u>\$ 161,017</u>	<u>\$ (14,560)</u>

Net Cash Provided by (Used in) Operating Activities

Net cash provided by operating activities was \$160.9 million for the three months ended March 31, 2021, which consisted of net income of \$176.0 million offset by a net of \$15.1 million of non-cash charges and indirect cash changes, primarily related to \$1.3 million of stock-based compensation expense and \$12.4 million of deferred revenue. Net cash used in operating activities was \$18.4 million for the three months ended March 31, 2020, which consisted of a net loss of \$20.0 million offset by a net of \$1.6 million of non-cash charges and indirect cash changes, primarily related to \$1.3 million of stock-based compensation expense.

Net Cash (Used In) Provided by Investing Activities

Net cash used in investing activities was \$12,000 for the three months ended March 31, 2021, compared to \$3.8 million of net cash provided by investing activities for the three months ended March 31, 2020. The change in net cash provided by investing activities was primarily due to the maturities of short-term investments during the three months ended March 31, 2020 compared to no investment activity during the three months ended March 31, 2021.

Net Cash Provided by Financing Activities

Net cash provided by financing activities of \$0.1 million for the three months ended March 31, 2021 primarily due to proceeds purchases of shares under the 2017 employee stock purchase plan and the exercise of options. Net cash provided by financing activities of \$16,000 for the three months ended March 31, 2020 was primarily due to purchases of shares under the 2017 employee stock purchase plan, offset by expenses related to our ATM program.

Contractual Obligations and Commitments

As of March 31, 2021, we had no material contractual obligations or commitments. We had no long-term debt or capital leases and no material non-cancelable purchase commitments with service providers, as we have generally contracted on a cancelable, purchase order basis. We excluded any potential contingent payments upon the achievement by us of clinical, regulatory and commercial events, as applicable, or royalty payments that we may be required to make under license agreements we have entered into with various entities pursuant to which we have in-licensed certain intellectual property as contractual obligations or commitments, including agreements with H. Lundbeck A/S and Northwestern. Pursuant to these license agreements, we have agreed to make milestone payments up to an aggregate of \$194.3 million upon the achievement of certain development, regulatory and sales milestones. We excluded these contingent payments given that the timing, probability, and amount, if any, of such payments cannot be reasonably estimated at this time.

Off-Balance Sheet Arrangements

We did not have during the periods presented, and we do not currently have, any off-balance sheet arrangements, as defined in the rules and regulations of the SEC.

Emerging Growth Company Status and Smaller Reporting Company Status

We are an “emerging growth company,” as defined in the Jumpstart Our Business Startups Act of 2012, or the JOBS Act, and may remain an emerging growth company until December 31, 2022. For so long as we remain an emerging growth company, we are permitted and intend to rely on exemptions from certain disclosure requirements that are applicable to other public companies that are not emerging growth companies. These exemptions include:

- reduced disclosure about our executive compensation arrangements;
- no non-binding stockholder advisory votes on executive compensation or golden parachute arrangements; and
- exemption from the auditor attestation requirement in the assessment of our internal control over financial reporting.

We have taken advantage of reduced reporting requirements in this Quarterly Report on Form 10-Q and may continue to do so until such time that we are no longer an emerging growth company. We will remain an “emerging growth company” until the earliest of (a) the last day of the fiscal year in which we have total annual gross revenues of \$1.07 billion or more, (b) December 31, 2022, the last day of the fiscal year following the fifth anniversary of the completion of the our IPO, (c) the date on which we have issued more than \$1.0 billion in nonconvertible debt during the previous three years or (d) the date on which we are deemed to be a large accelerated filer under the rules of the SEC. Section 107 of the JOBS Act provides that an emerging growth company can take advantage of the extended transition period for complying with new or revised accounting standards. We have irrevocably elected not to avail ourselves of this extended transition period and, as a result, we will adopt new or revised accounting standards on the relevant dates on which adoption of such standards is required for other public companies.

In addition, we are also a smaller reporting company as defined in the Exchange Act. We may continue to be a smaller reporting company even after we are no longer an emerging growth company. We may take advantage of certain of the scaled disclosures available to smaller reporting companies and will be able to take advantage of these scaled disclosures for so long as (i) our voting and non-voting common stock held by non-affiliates is less than \$250.0 million measured on the last business day of our second fiscal quarter or (ii) our annual revenue is less than \$100.0 million during the most recently completed fiscal year and our voting and non-voting common stock held by non-affiliates is less than \$700.0 million measured on the last business day of our second fiscal quarter.

Critical Accounting Policies and Estimates

Our management's discussion and analysis of financial condition and results of operations is based on our financial statements, which have been prepared in accordance with accounting principles generally accepted in the United States. The preparation of these financial statements requires us to make estimates and assumptions that affect the reported amounts of assets and liabilities and the disclosure of contingent assets and liabilities at the date of the financial statements, as well as the revenue and expenses incurred during the reported periods. On an ongoing basis, we evaluate our estimates and judgments, including those related to accrued expenses and stock-based compensation. We base our estimates on historical experience and on various other factors that we believe are reasonable under the circumstances, the results of which form the basis for making judgments about the carrying value of assets and liabilities that are not apparent from other sources. Changes in estimates are reflected in reported results for the period in which they become known. Actual results may differ from these estimates under different assumptions or conditions.

During the three months ended March 31, 2021, there were no material changes to our critical accounting policies as reported for the year ended December 31, 2020 as part of our Annual Report on Form 10-K, which was filed with the SEC on March 15, 2021. In addition, see Note 2 of our Condensed Financial Statements under the heading "Recent Accounting Pronouncements" for new accounting pronouncements or changes to the accounting pronouncements during the three months ended March 31, 2021.

Item 3. Quantitative and Qualitative Disclosures About Market Risk

The primary objectives of our investment activities are to ensure liquidity and to preserve capital. As of March 31, 2021, we had cash and cash equivalents of \$233.1 million that were held in an interest-bearing money market account. Our primary exposure to market risk is interest rate sensitivity, which is affected by changes in the general level of U.S. interest rates. Due to the short-term maturities of our cash equivalents and short-term investments and the low risk profile of our investments, an immediate 100 basis point change in interest rates would not have a material effect on the fair market value of our cash equivalents and short-term investments. To minimize the risk in the future, we intend to maintain our portfolio of cash equivalents and short-term investments in institutional market funds that are comprised of U.S. Treasury and U.S. Treasury-backed repurchase agreements as well as treasury notes and high quality short-term corporate bonds.

Item 4. Controls and Procedures.

Management's Evaluation of our Disclosure Controls and Procedures

We maintain disclosure controls and procedures that are designed to ensure that information required to be disclosed in the reports that we file or submit under the Securities Exchange Act of 1934, as amended (the "Exchange Act") is (1) recorded, processed, summarized, and reported within the time periods specified in the SEC's rules and forms and (2) accumulated and communicated to our management, including our principal executive officer and principal financial officer, to allow timely decisions regarding required disclosure.

As of March 31, 2021, our management, with the participation of our principal executive officer and principal financial officer, evaluated the effectiveness of our disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) under the Exchange Act). Our management recognizes that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving their objectives, and management necessarily applies its judgment in evaluating the cost-benefit relationship of possible controls and procedures. Our principal executive officer and principal financial officer have concluded based upon the evaluation described above that, as of March 31, 2021, our disclosure controls and procedures were effective at the reasonable assurance level.

Changes in Internal Control over Financial Reporting

There have been no changes in our internal control over financial reporting during our most recent quarter ended March 31, 2021 that materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

Item 1. Legal Proceedings.

We are not currently subject to any material legal proceedings.

Item 1A. Risk Factors

An investment in our securities involves a high degree of risk. You should carefully consider the following information about these risks, together with the other information appearing elsewhere in this Quarterly Report on Form 10-Q, including our unaudited condensed financial statements and related notes hereto, before deciding to invest in our common stock. The occurrence of any of the following risks could have a material adverse effect on our business, financial condition, results of operations and future growth prospects or cause our actual results to differ materially from those contained in forward-looking statements we have made in this report and those we may make from time to time. In these circumstances, the market price of our common stock could decline and you may lose all or part of your investment. We cannot assure you that any of the events discussed below will not occur. In addition, such risks may be amplified by the COVID-19 pandemic and its potential impact on Ovid's business and the global economy.

Risks Related to Our Financial Position and Need for Additional Capital

Historically, we have incurred significant operating losses and expect to continue to incur substantial operating losses for the foreseeable future and may never achieve or maintain profitability.

We have historically incurred significant operating losses. Due to a one-time, upfront payment of \$196.0 million pursuant to the Takeda License and Termination Agreement, our net income was \$176.0 million for the three months ended March 31, 2021. As of March 31, 2021, we had an accumulated deficit of \$118.2 million. We expect to incur increasing operating losses for the foreseeable future. Since inception, we have devoted substantially all of our efforts to research and preclinical and clinical development of our drug candidates, as well as hiring employees and building our infrastructure. It could be several years, if ever, before we have a commercialized drug. The net losses we incur may fluctuate significantly from quarter to quarter and year to year. We anticipate that our expenses will increase substantially if, and as, we:

- continue the ongoing and planned preclinical and clinical development of our drug candidates;
- continue to build a portfolio of drug candidates through the acquisition or in-license of drugs, drug candidates or technologies;
- initiate preclinical studies and clinical trials for any additional drug candidates that we may pursue in the future;
- experience further delays in our preclinical studies and clinical trials due to the ongoing COVID-19 pandemic;
- seek marketing approvals for our current and future drug candidates that successfully complete clinical trials;
- establish a sales, marketing and distribution infrastructure to commercialize any drug candidate for which we may obtain marketing approval;
- develop, maintain, expand and protect our intellectual property portfolio;
- implement operational, financial and management systems; and
- attract, hire and retain additional administrative, clinical, regulatory and scientific personnel.

In addition, because of the numerous risks and uncertainties associated with pharmaceutical products and development, we are unable to accurately predict the timing or amount of increased expenses or when, or if, we will be able to achieve profitability. Our expenses could increase, and profitability could be further delayed if we decide to or are required by the FDA, or other regulatory authorities such as the European Medicines Agency (“EMA”), to perform studies or trials in addition to those currently expected, or if there are any delays in the development, or in the completion of any planned or future preclinical studies or clinical trials of our current and future drug candidates. Even if we complete the development and regulatory processes described above, we anticipate incurring significant costs associated with launching and commercializing our current and future drug candidates.

Even if we do achieve profitability, we may not be able to sustain or increase profitability on a quarterly or annual basis. Our failure to become and remain profitable would decrease the value of our company and could impair our ability to raise capital, maintain our research and development efforts, expand our business or continue our operations.

We have never generated any revenue from drug sales. Our operating history may make it difficult to evaluate the success of our business to date and to assess our future viability.

Our operations have consumed substantial amounts of cash since our inception in April 2014, primarily due to organizing and staffing our company, business planning, raising capital, acquiring assets and undertaking the development of our drug candidates. We have not yet demonstrated the ability to, obtain marketing approvals, manufacture a commercial-scale drug or conduct sales and marketing activities necessary for successful commercialization. Consequently, any predictions about our future success or viability may not be as accurate as they could be if we had more experience developing drug candidates.

Our ability to generate revenue from drug sales and achieve profitability depends on our ability, alone or with any current or future collaborative partners, to successfully complete the development of, and obtain the regulatory approvals necessary to commercialize, our current and future drug candidates. We do not anticipate generating revenue from drug sales for the next several years, if ever. Our ability to generate revenue from drug sales depends heavily on our, or any current or future collaborators', success in the following areas, including but not limited to:

- timely and successfully completing preclinical and clinical development of our current and future drug candidates;
- obtaining regulatory approvals for our current and future drug candidates for which we successfully complete clinical trials;
- launching and commercializing any drug candidates for which we obtain regulatory approval by establishing a sales force, marketing and distribution infrastructure or, alternatively, collaborating with a commercialization partner;
- qualifying for coverage and adequate reimbursement by government and third-party payors for any drug candidates for which we obtain regulatory approval, both in the United States and internationally;
- developing, validating and maintaining a commercially viable, sustainable, scalable, reproducible and transferable manufacturing process for our current and future drug candidates that is compliant with current good manufacturing practices, ("cGMP");
- establishing and maintaining supply and manufacturing relationships with third parties that can provide an adequate amount and quality of drugs and services to support clinical development, as well as the market demand for our current and future drug candidates, if approved;
- obtaining market acceptance, if and when approved, of our current or any future drug candidates as a viable treatment option by physicians, patients, third-party payors and others in the medical community;
- effectively addressing any competing technological and market developments;
- implementing additional internal systems and infrastructure, as needed;
- negotiating favorable terms in any collaboration, licensing or other arrangements into which we may enter and performing our obligations pursuant to such arrangements;
- our ability to obtain and maintain orphan drug exclusivity for any of our current and future drug candidates for which we obtain regulatory approval;
- maintaining, protecting and expanding our portfolio of intellectual property rights, including patents, trade secrets and know-how;
- avoiding and defending against third-party interference or infringement claims; and
- securing appropriate pricing in the United States, the European Union and other countries.

We expect our financial condition and operating results to continue to fluctuate from quarter to quarter and year to year due to a variety of factors, many of which are beyond our control. We will need to eventually transition from a company with a research and development focus to a company capable of undertaking commercial activities. We may encounter unforeseen expenses, difficulties, complications and delays and may not be successful in such a transition.

We will require additional capital to finance our operations, which may not be available on acceptable terms, if at all. Failure to obtain this necessary capital when needed may force us to delay, limit or terminate certain of our drug development efforts or other operations.

Our operations have consumed substantial amounts of cash since our inception. We expect our expenses to increase as we advance our current and future drug candidates through preclinical studies and clinical trials, commercialize our drug candidates, and pursue the acquisition or in-licensing of any additional drug candidates. Our expenses could increase beyond expectations if the FDA or other regulatory authorities require us to perform clinical and other studies in addition to those that we currently anticipate. In addition, if we obtain marketing approval for our drug candidates, we expect to incur significant expenses related to manufacturing, marketing, sales and distribution. Furthermore, we expect to continue to incur additional costs associated with operating as a public company.

As of March 31, 2021, our cash and cash equivalents were \$233.1 million, and we had an accumulated deficit of \$118.2 million. We believe that our existing cash and cash equivalents will fund our current operating plans through at least 12 months from the filing of this Quarterly Report on Form 10-Q. However, our operating plans may change because of many factors currently unknown to us, and we may need to seek additional funds sooner than planned, through public or private equity or debt financings, third-party funding, marketing and distribution arrangements, as well as other collaborations, strategic alliances and licensing arrangements, or any combination of these approaches.

We will require more capital in order to continue our preclinical and clinical activities, to obtain regulatory approval and for the commercialization of our current or future drug candidates. Any additional capital raising efforts may divert our management from their day-to-day activities, which may adversely affect our ability to develop and commercialize our current and future drug candidates. The COVID-19 pandemic has already resulted in a significant disruption of global financial markets. If the disruption persists and deepens, we could experience an inability to access additional capital. If we do not raise additional capital in sufficient amounts, or on terms acceptable to us, we may be prevented from pursuing development and commercialization efforts, which will harm our business, operating results and prospects.

Raising additional capital or acquiring or licensing assets by issuing equity or debt securities may cause dilution to our stockholders, and raising funds through lending and licensing arrangements may restrict our operations or require us to relinquish proprietary rights.

Until such time as we can generate substantial revenue from drug sales, if ever, we expect to finance our cash needs through a combination of equity and debt financings, strategic alliances, and license and development agreements in connection with any collaborations. We do not have any committed external source of funds. To the extent that we issue additional equity securities, our stockholders may experience substantial dilution, and the terms of these securities may include liquidation or other preferences that adversely affect your rights as a stockholder. In addition, we may issue equity or debt securities as consideration for obtaining rights to additional compounds.

Debt and equity financings, if available, may involve agreements that include covenants limiting or restricting our ability to take specific actions, such as redeeming our shares, making investments, issuing additional equity, incurring additional debt, making capital expenditures, declaring dividends or placing limitations on our ability to acquire, sell or license intellectual property rights and other operating restrictions that could negatively impact our ability to conduct our business. If we raise additional capital through future collaborations, strategic alliances or third-party licensing arrangements, we may have to relinquish valuable rights to our intellectual property, future revenue streams, research programs or drug candidates, or grant licenses on terms that may not be favorable to us.

If we are unable to raise additional capital when needed, we may be required to delay, limit, reduce or terminate our drug development or future commercialization efforts, or grant rights to develop and market drug candidates that we would otherwise develop and market ourselves.

Our ability to use our net operating loss (“NOL”) carryforwards and certain other tax attributes to offset future taxable income may be subject to limitation.

Our NOL carryforwards could expire unused and be unavailable to offset future income tax liabilities because of their limited duration or because of restrictions under U.S. tax law. Our federal NOLs generated in tax years beginning on or before December 31, 2017 are permitted to be carried forward for only 20 years under applicable U.S. tax law. Under the Tax Cuts and Jobs Act, or the Tax Act, as modified by the Coronavirus Aid, Relief, and Economic Security Act, or the CARES Act, federal NOLs incurred in taxable years beginning after December 31, 2017 may be carried forward indefinitely, but the utilization of such federal NOLs incurred in the taxable year beginning after December 31, 2020 is limited. It is uncertain how various states will respond to the Tax Act and CARES Act.

In addition, under Section 382 and Section 383 of the Internal Revenue Code of 1986, as amended, and corresponding provisions of state law, if a corporation undergoes an “ownership change,” its ability to use its pre-change NOL carryforwards and other pre-change tax attributes (such as research tax credits) to offset its post-change income may be limited. A Section 382 “ownership change” generally occurs if one or more stockholders or groups of stockholders who own at least 5% of our stock increase their ownership by more than 50 percentage points (by value) over their lowest ownership percentage over a rolling three-year period. We may have experienced ownership changes in the past and may experience ownership changes in the future as a result of shifts in our stock ownership (some of which are outside our control). As a result, if we earn net taxable income, our ability to use our pre-change NOLs to offset such taxable income may be subject to limitations. Similar provisions of state tax law may also apply to limit our use of accumulated state tax attributes. In addition, at the state level, there may be periods during which the use of NOLs is suspended or otherwise limited, which could accelerate or permanently increase state taxes owed.

Consequently, even if we achieve profitability, we may not be able to utilize a material portion of our NOL carryforwards and certain other tax attributes, which could have a material adverse effect on cash flow and results of operations.

Risks Related to the Development and Commercialization of Our Drug Candidates

Our future success is dependent on the successful clinical development, regulatory approval and commercialization of our current and future drug candidates. If we, or our licensees, are not able to obtain required regulatory approvals, we will not be able to commercialize our drug candidates, and our ability to generate revenue will be adversely affected.

We do not have any drugs that have received regulatory approval. Our business is dependent on our ability to successfully complete preclinical and clinical development of, obtain regulatory approval for, and, if approved, successfully commercialize our current and future drug candidates in a timely manner. Activities associated with the development and commercialization of our current and future drug candidates are subject to comprehensive regulation by the FDA and other regulatory agencies in the United States and similar regulatory authorities outside the United States. Failure to obtain regulatory approval in the United States or other jurisdictions would prevent us from commercializing and marketing our current and future drug candidates. An inability to effectively develop and commercialize our current and future drug candidates, whether due to the impacts of the ongoing COVID-19 pandemic or otherwise, could have an adverse effect on our business, financial condition, results of operations and growth prospects.

Further, activities associated with the development and commercialization of our current and future drug candidates are subject to comprehensive regulation by the FDA and other regulatory agencies in the United States and similar regulatory authorities outside the United States. Failure to obtain regulatory approval in the United States or other jurisdictions would prevent us from commercializing and marketing our current and future drug candidates.

Even if we obtain approval from the FDA and comparable foreign regulatory authorities for our current and future drug candidates, any approval might contain significant limitations related to use restrictions for specified age groups, warnings, precautions or contraindications, or may be subject to burdensome post-approval study or risk management requirements. If we are unable to obtain regulatory approval, or any approval

contains significant limitations, we may not be able to obtain sufficient funding or generate sufficient revenue to continue the development of that drug candidate or any other drug candidate that we may in-license, develop or acquire in the future. In certain circumstances, our third-party licensees are responsible for obtaining regulatory approvals in the countries covered by the license, and we are dependent on their efforts in order to achieve the necessary approvals in order to commercialize our products. If any future licensees fail to perform their obligations to develop and obtain regulatory approvals for the licensed products, we may not be able to commercialize our products in the affected countries, or our ability to do so may be substantially delayed.

Furthermore, even if we obtain regulatory approval for our current and future drug candidates, we will still need to develop a commercial organization, establish a commercially viable pricing structure and obtain approval for adequate reimbursement from third-party and government payors. If we are unable to successfully commercialize our current and future drug candidates, we may not be able to generate sufficient revenue to continue our business.

Because the results of preclinical studies or earlier clinical trials are not necessarily predictive of future results, our drug candidates may not have favorable results in planned or future preclinical studies or clinical trials, or may not receive regulatory approval.

Success in preclinical testing and early clinical trials does not ensure that subsequent clinical trials will generate similar results or otherwise provide adequate data to demonstrate the efficacy and safety of a drug candidate. Frequently, drug candidates that have shown promising results in early clinical trials have subsequently suffered significant setbacks in later clinical trials. For instance, our NEPTUNE trial did not meet its primary endpoints despite earlier encouraging results of STARS, the first clinical trial evaluating efficacy of OV101 in patients with Angelman syndrome, and OV101 has not been evaluated in a clinical trial to treat Fragile X syndrome. In April 2021, we announced that we will discontinue development of OV101 in Angelman syndrome and that we do not plan to initiate further clinical studies of OV101 in Fragile X syndrome. Similarly, our Phase 1b/2a adult study of OV935 showed exploratory signals of efficacy in seizure frequency reduction, but we may be unable to demonstrate efficacy in future trials in patients with DEE, or the related indications of Dravet syndrome, Lennox-Gastaut syndrome, CDKL5 Deficiency Disorder or Duplication 15q (“Dup15q”) syndrome, and the FDA has not yet made any determination regarding safety and efficacy of OV935 in any of these indications. In March 2021, we entered into a royalty, license and termination agreement (“Takeda License and Termination Agreement”) with Takeda under which Takeda secured rights to our 50% global share in soticlestat, and an exclusive license under its relevant intellectual property rights and global rights from us to develop and commercialize the investigational medicine OV935 for the treatment of developmental and epileptic encephalopathies, including Dravet syndrome and Lennox-Gastaut syndrome. The results from preclinical studies may not be predictive of the effects of these compounds in later stage clinical trials. If we do not observe favorable results in clinical trials of one of our drug candidates, we may decide to delay or abandon clinical development of that drug candidate. Any such delay or abandonment could harm our business, financial condition, results of operations and prospects.

Interim topline and preliminary results from our clinical trials that we announce or publish from time to time may change as more patient data become available and are subject to audit and verification procedures, which could result in material changes in the final data.

From time to time, we have and may in the future publish or report preliminary or interim data from our clinical trials, such as the initial data we announced from the ENDYMION open label extension trial for OV935 in September 2019, which involved data from the first six patients enrolled in that extension trial which showed promising signs of efficacy over the treatment period, or the topline data from the ELEKTRA trial for OV935 in August 2020. Preliminary or interim data from our clinical trials and those of our partners may not be indicative of the final results of the trial and are subject to the risk that one or more of the clinical outcomes may materially change as patient enrollment continues and/or more patient data become available. Preliminary or topline results also remain subject to audit and verification procedures that may result in the final data being materially different from the preliminary data we previously published or reported. As a result, preliminary or interim data should be considered carefully and with caution until final data are available. Differences between preliminary or interim data and final data could significantly harm our business prospects and may cause the trading price of our common stock to fluctuate significantly.

We may encounter substantial delays in our clinical trials or we may fail to demonstrate safety and efficacy to the satisfaction of applicable regulatory authorities.

Before obtaining marketing approval from regulatory authorities for the sale of our drug candidates, we must conduct extensive clinical trials to demonstrate the safety and efficacy of the drug candidate for its intended indications. Clinical trials are expensive, time-consuming and uncertain as to outcome. Further, delays and interruptions to ongoing trials related to the COVID-19 pandemic may also increase the duration and costs of such trials. We cannot guarantee that any clinical trials will be conducted as planned or completed on schedule, if at all. A failure of one or more clinical trials can occur at any stage of testing. Events that may prevent successful or timely completion of clinical development include:

- delays in reaching a consensus with regulatory authorities on trial design;
- delays in reaching agreement on acceptable terms with prospective clinical research organizations (“CROs”) and clinical trial sites;
- delays in opening investigational sites;
- delays or difficulty in recruiting and enrollment of suitable patients to participate in our clinical trials, whether as a result of the COVID-19 pandemic or otherwise;
- imposition of a clinical hold by regulatory authorities because of a serious adverse event, concerns with a class of drug candidates or after an inspection of our clinical trial operations or trial sites;
- delays in having patients complete participation in a trial or return for post-treatment follow-up;
- occurrence of serious adverse events associated with the drug candidate that are viewed to outweigh its potential benefits;

- changes in regulatory requirements and guidance that require amending or submitting new clinical protocols; or
- business interruptions resulting from geo-political actions, including war and terrorism, or natural disasters and public health epidemics.

In addition, our clinical trials may be affected by the COVID-19 pandemic.

Clinical site initiation and patient enrollment may be delayed due to prioritization of hospital resources toward the COVID-19 pandemic. Patients may not be able to comply with clinical trial protocols if quarantines impede patient movement or interrupt healthcare services. Similarly, our ability to recruit and retain patients and principal investigators and site staff who, as healthcare providers, may have heightened exposure to COVID-19, could be limited, which in turn could adversely impact our clinical trial operations. Additionally, we may experience interruption of key clinical trial activities, such as clinical trial site monitoring, due to limitations on travel, quarantines or social distancing protocols imposed or recommended by federal or state governments, employers and others in connection with the ongoing COVID-19 pandemic. As a result of the COVID-19 pandemic, we have faced and may continue to face delays in meeting our anticipated timelines for our ongoing and planned clinical trials.

Further, clinical endpoints for certain diseases we are targeting, such as Angelman syndrome and Fragile X syndrome, have not been established, and accordingly we may have to develop new modalities or modify existing endpoints to measure efficacy, which may increase the time it takes for us to commence or complete clinical trials. In addition, we believe investigators in this area may be inexperienced in conducting trials in this area due to the current lack of drugs to treat these disorders, which may result in increased time and expense to train investigators and open clinical sites.

Any inability to successfully complete preclinical and clinical development could result in additional costs to us or impair our ability to generate revenue from future drug sales and regulatory and commercialization milestones. In addition, if we make manufacturing or formulation changes to our drug candidates, we may need to conduct additional testing to bridge our modified drug candidate to earlier versions. Clinical trial delays could also shorten any periods during which we may have the exclusive right to commercialize our drug candidates, if approved, or allow our competitors to bring comparable drugs to market before we do, which could impair our ability to successfully commercialize our drug candidates and may harm our business, financial condition, results of operations and prospects.

Additionally, if the results of our clinical trials are inconclusive or if there are safety concerns or serious adverse events associated with our drug candidates, we may:

- be delayed in obtaining marketing approval, if at all;
- obtain approval for indications or patient populations that are not as broad as intended or desired;
- obtain approval with labeling that includes significant use or distribution restrictions or safety warnings;
- be subject to additional post-marketing testing requirements;
- be required to perform additional clinical trials to support approval or be subject to additional post-marketing testing requirements;
- have regulatory authorities withdraw, or suspend, their approval of the drug or impose restrictions on its distribution in the form of a modified risk evaluation and mitigation strategy (“REMS”);
- be subject to the addition of labeling statements, such as warnings or contraindications;
- be sued; or
- experience damage to our reputation.

Our drug development costs will also increase if we experience delays in testing or obtaining marketing approvals. We do not know whether any of our preclinical studies or clinical trials will begin as planned, need to be restructured or be completed on schedule, if at all.

Further, we, the FDA or an institutional review board (“IRB”) may suspend our clinical trials at any time if it appears that we or our collaborators are failing to conduct a trial in accordance with regulatory requirements, including the FDA’s current Good Clinical Practice (“GCP”) regulations, that we are exposing participants to unacceptable health risks, or if the FDA finds deficiencies in our investigational new drug (“IND”) applications or the conduct of these trials. Therefore, we cannot predict with any certainty the schedule for commencement and completion of future clinical trials. If we experience delays in the commencement or completion of our clinical trials, or if we terminate a clinical trial prior to completion, the commercial prospects of our drug candidates could be negatively impacted, and our ability to generate revenues from our drug candidates may be delayed.

Angelman syndrome has no treatments approved by the U.S. Food and Drug Administration, and the primary clinical endpoint, CGI-I-AS, has not previously been used as a sole primary endpoint in a pivotal clinical trial.

Angelman syndrome is characterized by a variety of signs and symptoms, such as delayed development, intellectual disability, severe speech impairment, problems with movement and balance, seizures, sleep disorders and anxiety. In order to obtain a broad indication for treatment of Angelman syndrome from the FDA, we may need to demonstrate efficacy on several of the key symptoms of Angelman syndrome. If we fail to do so, our clinical development may be delayed and/or our label may be limited.

If we are not successful in discovering, developing and commercializing additional drug candidates, our ability to expand our business and achieve our strategic objectives would be impaired.

A key element of our strategy is to develop and potentially commercialize a portfolio of drug candidates to treat rare neurological disorders. We intend to do so by in-licensing and entering into collaborations with leading biopharmaceutical companies or academic institutions for new drug candidates. Identifying new drug candidates requires substantial technical, financial and human resources, whether or not any drug candidates are ultimately identified. Our approach to business development, including our efforts to map the biological pathways related to orphan disorders of the brain and our relationships among the pharmaceutical industry, may not result in viable drug candidates for clinical development. The COVID-19 pandemic could also impact our ability to do in person due diligence, negotiations and other interactions to identify new opportunities. Even if we identify drug candidates that initially show promise, we may fail to in-license or acquire these assets and may also fail to successfully develop and commercialize such drug candidates for many reasons, including the following:

- the research methodology used may not be successful in identifying potential drug candidates;
- competitors may develop alternatives that render any drug candidate we develop obsolete;
- any drug candidate we develop may nevertheless be covered by third parties' patents or other exclusive rights;
- a drug candidate may, on further study, be shown to have harmful side effects or other characteristics that indicate it is unlikely to be effective or otherwise does not meet applicable regulatory criteria;
- a drug candidate may not be capable of being produced in commercial quantities at an acceptable cost, or at all; and
- a drug candidate may not be accepted as safe and effective by physicians, patients, the medical community or third-party payors.

We have limited financial and management resources and, as a result, we may forego or delay pursuit of opportunities with other drug candidates or for other indications that later prove to have greater market potential. Our resource allocation decisions may cause us to fail to capitalize on viable commercial drugs or profitable market opportunities. If we do not accurately evaluate the commercial potential or target market for a particular drug candidate, we may relinquish valuable rights to that drug candidate through collaboration, licensing or other royalty arrangements in circumstances under which it would have been more advantageous for us to retain sole development and commercialization rights to such drug candidate.

If we are unsuccessful in identifying and developing additional drug candidates or are unable to do so, our key growth strategy and business will be harmed.

Clinical trials are very expensive, time-consuming and difficult to design and implement.

Our drug candidates will require clinical testing before we are prepared to submit a new drug application ("NDA") for regulatory approval. We cannot predict with any certainty if or when we might submit an NDA for regulatory approval for any of our drug candidates or whether any such NDA will be approved by the FDA. Human clinical trials are very expensive and difficult to design and implement, in part because they are subject to rigorous regulatory requirements. For instance, the FDA may not agree with our proposed endpoints for any future clinical trial of our drug candidates, which may delay the commencement of our clinical trials. In addition, we may not succeed in developing and validating disease-relevant clinical endpoints based on insights regarding biological pathways for the disorders we are studying. The clinical trial process is also time-consuming. We estimate that the successful completion of clinical trials of our drug candidates will take at least several years to complete, if not longer. Furthermore, failure can occur at any stage and we could encounter problems that cause us to abandon or repeat clinical trials.

Enrollment and retention of patients in clinical trials is an expensive and time-consuming process and could be made more difficult or rendered impossible by multiple factors outside our control.

Identifying and qualifying patients to participate in our clinical trials is critical to our success. The number of patients suffering from Angelman syndrome, Fragile X syndrome and DEE, such as Dravet syndrome, Lennox-Gastaut syndrome, Dup15q syndrome and CDKL5 deficiency disorder is small and has not been established with precision. If the actual number of patients with these disorders is smaller than we anticipate, we may encounter difficulties in enrolling patients in our clinical trials, thereby delaying or preventing development and approval of our drug candidates. Even once enrolled we may be unable to retain a sufficient number of patients to complete any of our trials. Patient enrollment and retention in clinical trials depends on many factors, including the size of the patient population, the nature of the trial protocol, the existing body of safety and efficacy data, the number and nature of competing treatments and ongoing clinical trials of competing therapies for the same indication, the proximity of patients to clinical sites and the eligibility criteria for the trial, any such enrollment issues could cause delays or prevent development and approval of our drug candidates. Because we are focused on addressing rare neurological disorders, there are limited patient pools from which to draw in order to complete our clinical trials in a timely and cost-effective manner. Furthermore, our efforts to build relationships with patient communities may not succeed, which could result in delays in patient enrollment in our clinical trials. In addition, any negative results we may report in clinical trials of our drug candidate may make it difficult or impossible to recruit and retain patients in other clinical trials of that same drug candidate. Delays or failures in planned patient enrollment or retention may result in increased costs, program delays or both, which could have a harmful effect on our ability to develop our drug candidates, or could render further development impossible. For example, the impact of public health pandemics, such as COVID-19, may delay or prevent patients from enrolling or from receiving treatment in accordance with the protocol and the required timelines, which could delay our clinical trials, or prevent us or our partners from completing our clinical trials at all, and harm our ability to obtain approval for such product candidate. In addition, we may rely on CROs and clinical trial sites to ensure proper and timely conduct of our future clinical trials and, while we intend to enter into agreements governing their services, we will be limited in our ability to compel their actual performance.

Our drug candidates may cause undesirable side effects or have other properties that could delay or prevent their regulatory approval, limit the commercial potential or result in significant negative consequences following any potential marketing approval.

During the conduct of clinical trials, patients report changes in their health, including illnesses, injuries and discomforts, to their doctor. Often, it is not possible to determine whether or not the drug candidate being studied caused these conditions. Regulatory authorities may draw different conclusions or require additional testing to confirm these determinations, if they occur. In addition, it is possible that as we test our drug candidates in larger, longer and more extensive clinical programs, or as use of these drug candidates becomes more widespread if they receive regulatory approval, illnesses, injuries, discomforts and other adverse events that were observed in earlier trials, as well as conditions that did not occur or went undetected in previous trials, will be reported by subjects. Many times, side effects are only detectable after investigational drugs are tested in large-scale, Phase 3 trials or, in some cases, after they are made available to patients on a commercial scale after approval. For example, in one of the trials conducted by H. Lundbeck A/S (“Lundbeck”), there were reports of hallucinations in drug abusers at 30mg and 45mg doses of OV101, which are higher than the 10mg and 15mg doses that were effective for insomnia. In addition, some patients treated with OV101 in the Lundbeck Phase 3 trials experienced headaches, nausea and dizziness. In the STARS study, the most frequent adverse events for OV101 treated arms that were greater than placebo arm included pyrexia, rash, seizure, enuresis, myoclonic epilepsy, otitis media and viral infection. In the Phase 1b/2a OV935 trial, adverse events that occurred more frequently in the OV935-treatment group versus the placebo group were dysarthria, insomnia, lethargy, seizure cluster, and upper respiratory infection. If additional clinical experience indicates that any of our drug candidates has adverse events or causes serious or life-threatening adverse events, the development of that drug candidate may fail or be delayed, or, if the drug candidate has received regulatory approval, such approval may be revoked, which would harm our business, prospects, operating results and financial condition.

Moreover, if we elect, or are required, to delay, suspend or terminate any clinical trial of our drug candidates, the commercial prospects of our drug candidates may be harmed and our ability to generate revenue through their sale may be delayed or eliminated. Any of these occurrences may harm our business, financial condition and prospects significantly.

Additionally, if any of our drug candidates receive marketing approval, the FDA could require us to include a black box warning in our label or adopt REMS to ensure that the benefits outweigh its risks, which may include, among other things, a medication guide outlining the risks of the drug for distribution to patients and a communication plan to health care practitioners. Furthermore, if we or others later identify undesirable side effects caused by our drug candidates, several potentially significant negative consequences could result, including:

- regulatory authorities may suspend or withdraw approvals of such drug candidate;
- regulatory authorities may require additional warnings on the label;
- we may be required to change the way a drug candidate is administered or conduct additional clinical trials;
- we could be sued and held liable for harm caused to patients;
- we may need to conduct a recall; and
- our reputation may suffer.

Any of these events could prevent us from achieving or maintaining market acceptance of our drug candidates and could significantly harm our business, prospects, financial condition and results of operations.

If the market opportunities for our drug candidates are smaller than we believe they are, even assuming approval of a drug candidate, our business may suffer. Because the patient populations in the market for our drug candidates may be small, we must be able to successfully identify patients and acquire a significant market share to achieve profitability and growth.

We focus our research and drug development on treatments for rare neurological disorders. Given the small number of patients who have the disorders that we are targeting, our eligible patient population and pricing estimates may differ significantly from the actual market addressable by our drug candidates. Our projections of both the number of people who have these disorders, as well as the subset of people with these disorders who have the potential to benefit from treatment with our drug candidates, are based on our beliefs and estimates. These estimates have been derived from a variety of sources, including the scientific literature, patient foundations, or market research, and may prove to be incorrect. Further, new studies may change the estimated incidence or prevalence of these disorders. The number of patients may turn out to be lower than expected. Likewise, the potentially addressable patient population for each of our drug candidates may be limited or may not be amenable to treatment with our drug candidates, and new patients may become increasingly difficult to identify or gain access to, which would adversely affect our results of operations and our business.

We face substantial competition, which may result in others developing or commercializing drugs before or more successfully than us.

The development and commercialization of new drugs is highly competitive. We face competition with respect to our current drug candidates and will face competition with respect to any other drug candidates that we may seek to develop or commercialize in the future, from major pharmaceutical companies, specialty pharmaceutical companies and biotechnology companies worldwide. There are a number of large pharmaceutical and biotechnology companies that currently market and sell drugs or are pursuing the development of drug candidates for the treatment of the indications that we are pursuing. Potential competitors also include academic institutions, government agencies and other public and private research organizations that conduct research, seek patent protection and establish collaborative arrangements for research, development, manufacturing and commercialization.

More established companies may have a competitive advantage over us due to their greater size, resources and institutional experience. In particular, these companies have greater experience and expertise in securing reimbursement, government contracts, relationships with key opinion leaders, conducting testing and clinical trials, obtaining and maintaining regulatory approvals and distribution relationships to market products, and marketing approved drugs. These companies also have significantly greater research and marketing capabilities than we do. If we are not able to compete effectively against existing and potential competitors, our business and financial condition may be harmed.

As a result of these factors, our competitors may obtain regulatory approval of their drugs before we are able to, which may limit our ability to develop or commercialize our drug candidates. Our competitors may also develop therapies that are safer, more effective, more widely accepted and cheaper than ours, and may also be more successful than us in manufacturing and marketing their drugs. These appreciable advantages could render our drug candidates obsolete or non-competitive before we can recover the expenses of such drug candidates' development and commercialization.

Mergers and acquisitions in the pharmaceutical and biotechnology industries may result in even more resources being concentrated among a smaller number of our competitors. Smaller and other early-stage companies may also prove to be significant competitors, particularly through collaborative arrangements with large and established companies. These third parties compete with us in recruiting and retaining qualified scientific, management and commercial personnel, establishing clinical trial sites and subject registration for clinical trials, as well as in acquiring technologies complementary to, or necessary for, our programs.

Even if our current or future drug candidates receive marketing approval, they may fail to achieve market acceptance by physicians, patients, third-party payors or others in the medical community necessary for commercial success.

Even if our current or future drug candidates receive marketing approval, they may fail to gain sufficient market acceptance by physicians, patients, third-party payors and others in the medical community. If they do not achieve an adequate level of acceptance, we may not generate significant drug revenue and may not become profitable. The degree of market acceptance of our current or future drug candidates, if approved for commercial sale, will depend on a number of factors, including but not limited to:

- the efficacy and potential advantages compared to alternative treatments and therapies;
- the safety profile of our drug candidate compared to alternative treatments and therapies;
- effectiveness of sales and marketing efforts;
- the strength of our relationships with patient communities;
- the cost of treatment in relation to alternative treatments and therapies, including any similar generic treatments;
- our ability to offer such drug for sale at competitive prices;
- the convenience and ease of administration compared to alternative treatments and therapies;
- the willingness of the target patient population to try new therapies and of physicians to prescribe these therapies;
- the strength of marketing and distribution support;
- the availability of third-party coverage and adequate reimbursement;
- the prevalence and severity of any side effects; and
- any restrictions on the use of the drug together with other medications.

Our efforts to educate physicians, patients, third-party payors and others in the medical community on the benefits of our drug candidates may require significant resources and may never be successful. Such efforts may require more resources than are typically required due to the complexity and uniqueness of our drug candidates. Because we expect sales of our drug candidates, if approved, to generate substantially all of our drug revenues for the foreseeable future, the failure of our drugs to find market acceptance would harm our business and could require us to seek additional financing.

If we are unable to establish sales and marketing capabilities, or enter into agreements with third parties to market and sell our current or any future drug candidates, we may be unable to generate any revenue from drug sales.

To successfully commercialize any drug candidate that may result from our development programs, we will need to build out our sales and marketing capabilities, either on our own or with others. The establishment and development of our own commercial team or the establishment of a contract sales force to market any drug candidate we may develop will be expensive and time-consuming and could delay any drug launch. Moreover, we cannot be certain that we will be able to successfully develop this capability. We may seek to enter into additional collaborations with other entities to utilize their established marketing and distribution capabilities, but we may be unable to enter into such agreements on favorable terms, if at all. If any current or future collaborators do not commit sufficient resources to commercialize our drug candidates, or we are unable to develop the necessary capabilities on our own, we will be unable to generate sufficient revenue to sustain our business. We compete with many companies that currently have extensive, experienced and well-funded marketing and sales operations to recruit, hire, train and retain marketing and sales personnel. We also face competition in our search for third parties to assist us with the sales and marketing efforts of our current and future drug candidates. Without an internal team or the support of a third party to perform marketing and sales functions, we may be unable to compete successfully against these more established companies.

Even if we obtain and maintain approval for our current or future drug candidates from the FDA, we may never obtain approval for our current or future drug candidates outside of the United States, which would limit our market opportunities and could harm our business.

Approval of a drug candidate in the United States by the FDA does not ensure approval of such drug candidate by regulatory authorities in other countries or jurisdictions, and approval by one foreign regulatory authority does not ensure approval by regulatory authorities in other foreign countries or by the FDA. Sales of our current and future drug candidates outside of the United States will be subject to foreign regulatory requirements governing clinical trials and marketing approval. Even if the FDA grants marketing approval for a drug candidate, comparable regulatory authorities of foreign countries also must approve the manufacturing and marketing of the drug candidate in those countries. Approval procedures vary among jurisdictions and can involve requirements and administrative review periods different from, and more onerous than, those in the United States, including additional preclinical studies or clinical trials. In many countries outside the United States, a drug candidate must be approved for reimbursement before it can be approved for sale in that country. In some cases, the price that we intend to charge for any drug candidates, if approved, is also subject to approval. Obtaining approval for our current and future drug candidates in the European Union from the European Commission following the opinion of the EMA, if we choose to submit a marketing authorization application there, would be a lengthy and expensive process. Even if a drug candidate is approved, the FDA or the European Commission, as the case may be, may limit the indications for which the drug may be marketed, require extensive warnings on the drug labeling or require expensive and time-consuming additional clinical trials or reporting as conditions of approval. Obtaining foreign regulatory approvals and compliance with foreign regulatory requirements could result in significant delays, difficulties and costs for us and could delay or prevent the introduction of our current and future drug candidates in certain countries. In certain cases, we are dependent on third parties to obtain such foreign regulatory approvals, and any delay or failure of performance of such third parties could delay or prevent our ability to commercialize our products in the affected countries. Due to the ongoing COVID-19 pandemic, it is possible that we could experience delays in the timing of our interactions with regulatory authorities due to absenteeism by governmental employees, inability to conduct planned physical inspections related to regulatory approval, or the diversion of regulatory authority efforts and attention to approval of other therapeutics or other activities related to COVID-19, which could delay anticipated approval decisions and otherwise delay or limit our ability to make planned regulatory submissions or obtain new product approvals.

Further, clinical trials conducted in one country may not be accepted by regulatory authorities in other countries. Also, regulatory approval for our drug candidates may be withdrawn. If we fail to comply with the regulatory requirements, our target market will be reduced and our ability to realize the full market potential of our current and future drug candidates will be harmed and our business, financial condition, results of operations and prospects could be harmed.

If we seek approval to commercialize our current or future drug candidates outside of the United States, in particular in the European Union and Israel, a variety of risks associated with international operations could harm our business.

If we seek approval of our current or future drug candidates outside of the United States, we expect that we will be subject to additional risks in commercialization including:

- different regulatory requirements for approval of therapies in foreign countries;
- reduced protection for intellectual property rights;
- the potential requirement of additional clinical studies in international jurisdictions;
- unexpected changes in tariffs, trade barriers and regulatory requirements;
- economic weakness, including inflation, or political instability in particular foreign economies and markets;
- compliance with tax, employment, immigration and labor laws for employees living or traveling abroad;
- foreign currency fluctuations, which could result in increased operating expenses and reduced revenues, and other obligations incident to doing business in another country;
- foreign reimbursement, pricing and insurance regimes;
- workforce uncertainty in countries where labor unrest is more common than in the United States;
- production shortages resulting from any events affecting raw material supply or manufacturing capabilities abroad; and
- business interruptions resulting from geopolitical actions, including war and terrorism or natural disasters and public health pandemics, such as COVID-19;

We have no prior experience in these areas. In addition, there are complex regulatory, tax, labor and other legal requirements imposed by both the European Union, Israel and many of the individual countries in and outside of Europe with which we will need to comply. Many biopharmaceutical companies have found the process of marketing their own products in foreign countries to be very challenging.

Product liability lawsuits against us could cause us to incur substantial liabilities and could limit commercialization of any drug candidate that we may develop.

We face an inherent risk of product liability exposure related to the testing of our current and any future drug candidates in clinical trials and may face an even greater risk if we commercialize any drug candidate that we may develop. If we cannot successfully defend ourselves against claims that any such drug candidates caused injuries, we could incur substantial liabilities. Regardless of merit or eventual outcome, liability claims may result in:

- decreased demand for any drug candidate that we may develop;
- loss of revenue;
- substantial monetary awards to trial participants or patients;
- significant time and costs to defend the related litigation;
- withdrawal of clinical trial participants;
- the inability to commercialize any drug candidate that we may develop; and
- injury to our reputation and significant negative media attention.

Although we maintain product liability insurance coverage, such insurance may not be adequate to cover all liabilities that we may incur. We anticipate that we will need to increase our insurance coverage each time we commence a clinical trial and if we successfully commercialize any drug candidate. Insurance coverage is increasingly expensive. We may not be able to maintain insurance coverage at a reasonable cost or in an amount adequate to satisfy any liability that may arise.

Risks Related to Licensing and Collaboration Arrangements

Under the Takeda License and Termination Agreement, we are entitled to receive royalty and milestone payments in connection with the development and commercialization of soticlestat. We may not receive such payments if there is a disruption in or termination of the development of soticlestat or our relationship with Takeda, which would materially harm our business.

In March 2021, we entered into the Takeda License and Termination Agreement, pursuant to which Takeda secured rights to our 50% global share in soticlestat, which we had originally licensed from Takeda, and we granted to Takeda an exclusive worldwide license under our relevant intellectual property rights to develop and commercialize the investigational medicine soticlestat for the treatment of developmental and epileptic encephalopathies, including Dravet syndrome and Lennox-Gastaut syndrome. All rights in soticlestat are now owned by Takeda or exclusively licensed to Takeda by us. Following the closing date of the Takeda License and Termination Agreement, Takeda assumed all responsibility for, and costs of, both development and commercialization of soticlestat, and we will no longer have any financial obligation to Takeda under the original collaboration agreement, including for milestone payments or any future development and commercialization costs. Upon closing of the Takeda License and Termination Agreement, we received a one-time, upfront payment of \$196.0 million and, if soticlestat is successfully developed, we will be eligible to receive up to an additional \$660.0 million upon achieving specified development, regulatory and sales milestones. In addition, if soticlestat achieves regulatory approval, we will be entitled to receive tiered royalties at percentages ranging from the low double-digits, and up to 20% on sales of soticlestat. Royalties will be payable on a country-by-country and product-by-product basis during the period beginning on the date of the first commercial sale of such product in such country and ending on the later to occur of the expiration of patent rights covering the product in such country and a specified anniversary of such first commercial sale.

If for any reason the Takeda License and Termination Agreement is terminated or otherwise interrupted, or if the development or commercialization of soticlestat is delayed or terminated, we may not receive the royalty and milestone payments under such agreement, or any portion thereof. We are dependent upon such payments to fund the regulatory development of our current and future product candidates. If we are unable to find alternative sources of revenue, our inability to receive royalty or milestone payments under the Takeda License and Termination Agreement would negatively impact our business and results of operations.

We may be required to make significant payments in connection with our license of OV101 from Lundbeck.

We acquired rights to OV101 pursuant to a license agreement with Lundbeck in March 2015 (the “Lundbeck Agreement”), as amended in May 2019. Under the Lundbeck Agreement, as amended, we are subject to significant obligations, including payment obligations upon achievement of specified milestones and royalties on drug sales, as well as other material obligations. We are obligated to pay Lundbeck milestone payments up to an aggregate of \$189.0 million upon the achievement of certain development, regulatory and sales milestone events. In addition, we are obligated to pay Lundbeck tiered royalties based on net sales of OV101. In April 2021, we announced that we will discontinue development of OV101 in Angelman syndrome and that we do not plan to initiate further clinical studies of OV101 in Fragile X syndrome. However, if these payments become due under the terms of the Lundbeck Agreement, we may not have sufficient funds available to meet our obligations and our development efforts may be harmed.

Risks associated with the in-licensing or acquisition of drug candidates could cause substantial delays in the preclinical and clinical development of our drug candidates.

We acquired rights to OV101 pursuant to the Lundbeck Agreement, as amended, and we may acquire or in-license drug candidates for preclinical or clinical development in the future as we continue to build our pipeline. The Lundbeck Agreement imposes, and any such other arrangements with third parties may impose, diligence, development and commercialization obligations, milestone payments, royalty payments, indemnification and other obligations on us. Our rights to use any licensed intellectual property may be subject to the continuation of and our compliance with the terms of any such agreements. Additionally, disputes may arise regarding our rights to intellectual property licensed to us or acquired by us from a third party, including but not limited to:

- the scope of rights granted under any license or other agreement;
- the extent to which our technology and processes infringe on intellectual property of the licensor or grantor that is not subject to the license or other agreement;
- the sublicensing of patent and other rights;
- our diligence obligations under any license agreement;
- the ownership of inventions and know-how resulting from the creation or use of intellectual property by us, alone or with our licensors and collaborators;
- the scope and duration of our payment obligations;
- our rights upon termination of such agreement; and
- the scope and duration of exclusivity obligations of each party to the agreement.

Disputes over intellectual property and other rights that we have licensed or acquired from third parties could prevent or impair our ability to maintain any such arrangements on acceptable terms, result in delays in the commencement or completion of our preclinical studies and clinical trials and impact our ability to successfully develop and commercialize the affected drug candidates. If we fail to comply with our obligations under any future licensing agreements, these agreements may be terminated or the scope of our rights under them may be reduced and we might be unable to develop, manufacture or market any product that is licensed under these agreements.

We may be required to relinquish important rights to and control over the development and commercialization of our drug candidates to any future collaborators.

Our current and future collaborations could subject us to a number of risks, including:

- we may be required to undertake the expenditure of substantial operational, financial and management resources;
- we may be required to issue equity securities that would dilute our stockholders' percentage of ownership;
- we may be required to assume substantial actual or contingent liabilities;
- we may not be able to control the amount and timing of resources that our strategic collaborators devote to the development or commercialization of our drug candidates;
- strategic collaborators may delay clinical trials, provide insufficient funding, terminate a clinical trial or abandon a drug candidate, repeat or conduct new clinical trials or require a new version of a drug candidate for clinical testing;
- strategic collaborators may not pursue further development and commercialization of products resulting from the strategic collaboration arrangement or may elect to discontinue research and development programs;
- strategic collaborators may not commit adequate resources to the marketing and distribution of our drug candidates, limiting our potential revenues from these products;
- we rely on our current collaborators to manufacture drug substance and drug product and may do so with respect to future collaborators, which could result in disputes or delays;
- disputes may arise between us and our strategic collaborators that result in the delay or termination of the research, development or commercialization of our drug candidates or that result in costly litigation or arbitration that diverts management's attention and consumes resources;
- strategic collaborators may experience financial difficulties;
- strategic collaborators may not properly maintain or defend our intellectual property rights or may use our proprietary information in a manner that could jeopardize or invalidate our proprietary information or expose us to potential litigation;
- business combinations or significant changes in a strategic collaborator's business strategy may also adversely affect a strategic collaborator's willingness or ability to complete its obligations under any arrangement;
- strategic collaborators could decide to move forward with a competing drug candidate developed either independently or in collaboration with others, including our competitors; and
- strategic collaborators could terminate the arrangement or allow it to expire, which would delay the development and may increase the cost of developing our drug candidates.

We may explore additional strategic collaborations that may never materialize or may fail.

Our business strategy is based on acquiring or in-licensing compounds directed at rare neurological disorders. As a result, we intend to periodically explore a variety of possible additional strategic collaborations in an effort to gain access to additional drug candidates or resources. At the current time, we cannot predict what form such a strategic collaboration might take. We are likely to face significant competition in seeking appropriate strategic collaborators, and strategic collaborations can be complicated and time consuming to negotiate and document. We may not be able to negotiate strategic collaborations on acceptable terms, or at all. We are unable to predict when, if ever, we will enter into any additional strategic collaborations because of the numerous risks and uncertainties associated with establishing them.

Risks Related to Regulatory Compliance

Our relationships with customers, physicians, and third-party payors may be subject, directly or indirectly, to federal and state healthcare fraud and abuse laws, false claims laws, health information privacy and security laws, and other healthcare laws and regulations. If we are unable to comply, or have not fully complied, with such laws, we could face substantial penalties.

Healthcare providers and third-party payors in the United States and elsewhere will play a primary role in the recommendation and prescription of any drug candidates for which we obtain marketing approval. Our current and future arrangements with healthcare professionals, principal investigators, consultants, customers and third-party payors may subject us to various federal and state fraud and abuse laws and other healthcare laws, including, without limitation, the federal Anti-Kickback Statute, the federal civil and criminal false claims laws and the law commonly referred to as the Physician Payments Sunshine Act and regulations. These laws will impact, among other things, our clinical research, proposed sales, marketing and educational programs. In addition, we may be subject to patient privacy laws by both the federal government and the states in which we conduct or may conduct our business. The laws that will affect our operations include, but are not limited to:

- the federal Anti-Kickback Statute, which prohibits, among other things, persons or entities from knowingly and willfully soliciting, receiving, offering or paying any remuneration (including any kickback, bribe or rebate), directly or indirectly, overtly or covertly, in cash or in kind, in return for the purchase, recommendation, leasing or furnishing of an item or service reimbursable under a federal healthcare program, such as the Medicare and Medicaid programs. This statute has been interpreted to apply to arrangements between pharmaceutical manufacturers on the one hand, and prescribers, purchasers and formulary managers on the other. The Patient Protection and Affordable Care Act, as amended by the Health Care and Education Reconciliation Act (collectively, the “PPACA”), amended the intent requirement of the federal Anti-Kickback Statute. A person or entity no longer needs to have actual knowledge of this statute or specific intent to violate it in order to have committed a violation;
- federal civil and criminal false claims laws, including, without limitation, the False Claims Act, and civil monetary penalty laws which prohibit, among other things, individuals or entities from knowingly presenting, or causing to be presented, claims for payment or approval from Medicare, Medicaid or other government payors that are false or fraudulent or making a false statement to avoid, decrease or conceal an obligation to pay money to the federal government. The PPACA provides, and recent government cases against pharmaceutical and medical device manufacturers support, the view that federal Anti-Kickback Statute violations and certain marketing practices, including off-label promotion, may implicate the False Claims Act;
- the federal Health Insurance Portability and Accountability Act of 1996 (“HIPAA”), which created additional federal criminal statutes that prohibit a person from knowingly and willfully executing a scheme or making false or fraudulent statements to defraud any healthcare benefit program, regardless of the payor (e.g., public or private);
- HIPAA, as amended by the Health Information Technology for Economic and Clinical Health Act (“HITECH”), and their implementing regulations, and as amended again by the final HIPAA omnibus rule, Modifications to the HIPAA Privacy, Security, Enforcement, and Breach Notification Rules Under HITECH and the Genetic Information Nondiscrimination Act; Other Modifications to HIPAA, published in January 2013, which imposes certain requirements relating to the privacy, security and transmission of individually identifiable health information without appropriate authorization by entities subject to the rule, such as health plans, healthcare clearinghouses and certain healthcare providers, known as covered entities, and their respective business associates, individuals or entities that perform certain services on behalf of a covered entity that involves the use or disclosure of individually identifiable health information and their subcontractors that use, disclose or otherwise process individually identifiable health information;
- Physician Payments Sunshine Act, which is part of the PPACA, that require certain manufacturers of drugs, devices, biologics and medical supplies for which payment is available under Medicare, Medicaid or the Children’s Health Insurance Program, with specific exceptions, to report annually to the Centers for Medicare & Medicaid Services (“CMS”), information related to: (i) payments or other “transfers of value” made to physicians (defined to include doctors, dentists, optometrists, podiatrists and chiropractors) and teaching hospitals; and (ii) ownership and investment interests held by physicians and their immediate family members which will be expanded beginning in 2022, to require applicable manufacturers to report information regarding payments and other transfers of value provided to physician assistants, nurse practitioners, clinical nurse specialists, anesthesiologist assistants, certified registered nurse anesthetists and certified nurse midwives during the previous year;
- state and foreign law equivalents of each of the above federal laws, state laws that require manufacturers to report information related to payments and other transfers of value to physicians and other healthcare providers or marketing expenditures and/or information regarding drug pricing, state laws that require pharmaceutical companies to comply with the pharmaceutical industry’s voluntary compliance guidelines and the relevant compliance guidance promulgated by the federal government or to adopt compliance programs as prescribed by state laws and regulations, or that otherwise restrict payments that may be made to healthcare providers, state laws and regulations that require drug manufacturers to file reports relating to drug pricing and marketing information, and state and local laws that require the registration of pharmaceutical sales representatives; and
- state and foreign laws that govern the privacy and security of health information in some circumstances, many of which differ from each other in significant ways and often are not preempted by HIPAA, thus complicating compliance efforts.

Because of the breadth of these laws and the narrowness of the statutory exceptions and regulatory safe harbors available, it is possible that some of our business activities could be subject to challenge under one or more of such laws.

It is possible that governmental authorities will conclude that our business practices may not comply with current or future statutes, regulations or case law involving applicable fraud and abuse or other healthcare laws and regulations. If our operations are found to be in violation of any of these laws or any other governmental regulations that may apply to us, we may be subject to significant civil, criminal and administrative penalties, damages, fines, disgorgement, imprisonment, exclusion from participation in government funded healthcare programs, such as Medicare and Medicaid, additional reporting requirements and oversight if we become subject to a corporate integrity agreement or similar agreement to resolve allegations of non-compliance with these laws and the curtailment or restructuring of our operations.

The risk of our being found in violation of these laws is increased by the fact that many of them have not been fully interpreted by the regulatory authorities or the courts, and their provisions are open to a variety of interpretations. Efforts to ensure that our business arrangements with third parties will comply with applicable healthcare laws and regulations will involve substantial costs. Any action against us for violation of these laws, even if we successfully defend against it, could cause us to incur significant legal expenses and divert our management’s attention from the operation of our business. The shifting compliance environment and the need to build and maintain robust and expandable systems to comply with multiple jurisdictions with different compliance and/or reporting requirements increases the possibility that a healthcare company may run afoul of one or more of the requirements.

Coverage and adequate reimbursement may not be available for our current or any future drug candidates, which could make it difficult for us to sell profitably, if approved.

Market acceptance and sales of any drug candidates that we commercialize, if approved, will depend in part on the extent to which coverage and adequate reimbursement for these drugs and related treatments will be available from third-party payors, including government health administration authorities, managed care organizations and other private health insurers. Third-party payors decide which therapies they will pay for and establish reimbursement levels. Third-party payors often rely upon Medicare coverage policy and payment limitations in setting their own coverage and reimbursement policies. However, decisions regarding the extent of coverage and amount of reimbursement to be provided for any drug candidates that we develop will be made on a payor-by-payor basis. One third-party payor's determination to provide coverage for a drug does not assure that other payors will also provide coverage, and adequate reimbursement, for the drug. Additionally, a third-party payor's decision to provide coverage for a therapy does not imply that an adequate reimbursement rate will be approved. Each third-party payor determines whether or not it will provide coverage for a therapy, what amount it will pay the manufacturer for the therapy, and on what tier of its formulary it will be placed. The position on a third-party payor's list of covered drugs, or formulary, generally determines the co-payment that a patient will need to make to obtain the therapy and can strongly influence the adoption of such therapy by patients and physicians. Patients who are prescribed treatments for their conditions and providers prescribing such services generally rely on third-party payors to reimburse all or part of the associated healthcare costs. Patients are unlikely to use our drugs unless coverage is provided and reimbursement is adequate to cover a significant portion of the cost of our drugs.

A primary trend in the U.S. healthcare industry and elsewhere is cost containment. Third-party payors have attempted to control costs by limiting coverage and the amount of reimbursement for particular medications. We cannot be sure that coverage and reimbursement will be available for any drug that we commercialize and, if reimbursement is available, what the level of reimbursement will be. Inadequate coverage and reimbursement may impact the demand for, or the price of, any drug for which we obtain marketing approval. If coverage and adequate reimbursement are not available, or are available only to limited levels, we may not be able to successfully commercialize our current and any future drug candidates that we develop. Further, coverage policies and third-party payor reimbursement rates may change at any time. Even if favorable coverage and reimbursement status is attained, less favorable coverage policies and reimbursement rates may be implemented in the future.

Healthcare legislative reform measures may have a negative impact on our business and results of operations.

In the United States and some foreign jurisdictions, there have been, and continue to be, several legislative and regulatory changes and proposed changes regarding the healthcare system that could prevent or delay marketing approval of drug candidates, restrict or regulate post-approval activities, and affect our ability to profitably sell any drug candidates for which we obtain marketing approval.

Among policy makers and payors in the United States and elsewhere, there is significant interest in promoting changes in healthcare systems with the stated goals of containing healthcare costs, improving quality and/or expanding access. In the United States, the pharmaceutical industry has been a particular focus of these efforts and has been significantly affected by major legislative initiatives. In March 2010, the PPACA was passed, which substantially changed the way healthcare is financed by both the government and private insurers, and significantly impacts the U.S. pharmaceutical industry.

There have been executive, judicial, Congressional and executive branch challenges to certain aspects of the PPACA. While Congress has not passed comprehensive repeal legislation, it has enacted laws that modify certain provisions of the PPACA such as removing penalties, starting January 1, 2019, for not complying with the PPACA's individual mandate to carry health insurance, delaying the implementation of certain PPACA-mandated fees, and increasing the point-of-sale discount that is owed by pharmaceutical manufacturers who participate in Medicare Part D. Additionally, the 2020 federal spending package permanently eliminated, effective January 1, 2020, the PPACA-mandated "Cadillac" tax on high-cost employer-sponsored health coverage and medical device tax and, effective January 1, 2021, also eliminated the health insurer tax. On December 14, 2018, a Texas U.S. District Court Judge ruled that the PPACA is unconstitutional in its entirety because the "individual mandate" was repealed by Congress as part of the Tax Cuts and Jobs Act of 2017. On December 18, 2019, the U.S. Court of Appeals for the 5th Circuit upheld the District Court ruling that the individual mandate was unconstitutional and remanded the case back to the District Court to determine whether the remaining provisions of the PPACA are invalid as well. The United States Supreme Court is currently reviewing this case, but it is unknown when a decision will be reached. Although the Supreme Court has not yet ruled on the constitutionality of the PPACA, on January 28, 2021, President Biden issued an executive order to initiate a special enrollment period from February 15, 2021 through May 15, 2021 for purposes of obtaining health insurance coverage through the PPACA marketplace. The executive order also instructs certain governmental agencies to review and reconsider their existing policies and rules that limit access to healthcare, including among others, reexamining Medicaid demonstration projects and waiver programs that include work requirements, and policies that create barriers to obtaining access to health insurance coverage through Medicaid or the PPACA. It is unclear how the Supreme Court ruling, other such litigation and the healthcare reform measures of the Biden administration will impact the PPACA and our business.

Other legislative changes have been proposed and adopted since the PPACA was enacted. These changes include aggregate reductions to Medicare payments to providers of up to 2% per fiscal year pursuant to the Budget Control Act of 2011, which began in 2013, and due to subsequent legislative amendments to the statute, including the BBA, will remain in effect through 2030 unless additional Congressional action is taken. However, COVID-19 relief legislation suspended the 2% Medicare sequester from May 1, 2020 through March 31, 2021. The American Taxpayer Relief Act of 2012, among other things, further reduced Medicare payments to several providers, including hospitals and cancer treatment centers, and increased the statute of limitations period for the government to recover overpayments to providers from three to five years.

Additional changes that may affect our business include the expansion of new programs such as Medicare payment for performance initiatives for physicians under the Medicare Access and CHIP Reauthorization Act of 2015 (“MACRA”), which ended the use of the statutory formula and established a quality payment program, also referred to as the Quality Payment Program. In November 2019, CMS issued a final rule finalizing the changes to the Quality Payment Program. At this time, the full impact to overall physician reimbursement as a result of the introduction of the Quality Payment Program remains unclear.

Also, there has been heightened governmental scrutiny recently over the manner in which drug manufacturers set prices for their marketed products, which have resulted in several Congressional inquiries and proposed and enacted federal and state legislation designed to, among other things, bring more transparency to product pricing, review the relationship between pricing and manufacturer patient programs, and reform government program reimbursement methodologies for drug products. The FDA released a final rule, effective November 30, 2020, implementing a portion of the importation executive order providing guidance for states to build and submit importation plans for drugs from Canada. Further, on November 20, 2020, HHS finalized a regulation removing safe harbor protection for price reductions from pharmaceutical manufacturers to plan sponsors under Part D, either directly or through pharmacy benefit managers, unless the price reduction is required by law. The implementation of the rule has been delayed by the Biden administration from January 1, 2022 to January 1, 2023 in response to ongoing litigation. The rule also creates a new safe harbor for price reductions reflected at the point-of-sale, as well as a new safe harbor for certain fixed fee arrangements between pharmacy benefit managers and manufacturers, the implementation of which have also been delayed pending review by the Biden administration until March 22, 2021. On November 20, 2020, CMS issued an interim final rule implementing a Most Favored Nation executive order, which would tie Medicare Part B payments for certain physician-administered drugs to the lowest price paid in other economically advanced countries, effective January 1, 2021. On December 28, 2020, the United States District Court in Northern California issued a nationwide preliminary injunction against implementation of the interim final rule. It is unclear whether the Biden administration will work to reverse these measures or pursue similar policy initiatives. At the state level, legislatures have increasingly passed and implemented regulations designed to control pharmaceutical and biological product pricing, including pricing, including price or patient reimbursement constraints, discounts, restrictions on certain product access and marketing cost disclosure and transparency measures, and, in some cases, designed to encourage importation from other countries and bulk purchasing. We expect that these and other healthcare reform measures that may be adopted in the future, may result in more rigorous coverage criteria and in additional downward pressure on the price that we receive for any approved drug. Any reduction in reimbursement from Medicare or other government programs may result in a similar reduction in payments from private payors. The implementation of cost containment measures or other healthcare reforms may prevent us from being able to generate revenue, attain profitability, or commercialize our drugs.

It is possible that additional governmental action is taken in response to the ongoing COVID-19 pandemic.

We may not be able to obtain or maintain orphan drug designations or exclusivity for our drug candidates, which could limit the potential profitability of our drug candidates.

Regulatory authorities in some jurisdictions, including the United States, may designate drugs for relatively small patient populations as orphan drugs. Under the Orphan Drug Act of 1983, the FDA may designate a drug as an orphan drug if it is a drug intended to treat a rare disease or condition, which is generally defined as a patient population of fewer than 200,000 individuals in the United States. Generally, if a drug with an orphan drug designation subsequently receives the first marketing approval for an indication for which it receives the designation, then the drug is entitled to a period of marketing exclusivity that precludes the applicable regulatory authority from approving another marketing application for the same drug for the same indication for the exclusivity period except in limited situations. For purposes of small molecule drugs, the FDA defines “same drug” as a drug that contains the same active moiety and is intended for the same use as the drug in question. A designated orphan drug may not receive orphan drug exclusivity if it is approved for a use that is broader than the indication for which it received orphan designation.

Obtaining orphan drug designations is important to our business strategy; however, obtaining an orphan drug designation can be difficult and we may not be successful in doing so. Even if we were to obtain orphan drug designation for a drug candidate, we may not obtain orphan exclusivity and that exclusivity may not effectively protect the drug from the competition of different drugs for the same condition, which could be approved during the exclusivity period. Additionally, after an orphan drug is approved, the FDA could subsequently approve another application for the same drug for the same indication if the FDA concludes that the later drug is shown to be safer, more effective or makes a major contribution to patient care. Orphan drug exclusive marketing rights in the United States also may be lost if the FDA later determines that the request for designation was materially defective or if the manufacturer is unable to assure sufficient quantity of the drug to meet the needs of patients with the rare disease or condition. The failure to obtain an orphan drug designation for any drug candidates we may develop, the inability to maintain that designation for the duration of the applicable period, or the inability to obtain or maintain orphan drug exclusivity could reduce our ability to make sufficient sales of the applicable drug candidate to balance our expenses incurred to develop it, which would have a negative impact on our operational results and financial condition.

Even if we obtain regulatory approval for our current or future drug candidates, they will remain subject to ongoing regulatory oversight.

Even if we obtain any regulatory approval for our current or future drug candidates, such approvals will be subject to ongoing regulatory requirements for manufacturing, labeling, packaging, storage, advertising, promotion, sampling, record-keeping and submission of safety and other post-market information. Any regulatory approvals that we receive for our current or future drug candidates may also be subject to a REMS, limitations on the approved indicated uses for which the drug may be marketed or to the conditions of approval, or contain requirements for potentially costly post-marketing testing, including Phase 4 trials, and surveillance to monitor the quality, safety and efficacy of the drug.

In addition, drug manufacturers and their facilities are subject to payment of user fees and continual review and periodic inspections by the FDA and other regulatory authorities for compliance with cGMP requirements and adherence to commitments made in the NDA or foreign marketing application. If we, or a regulatory authority, discover previously unknown problems with a drug, such as adverse events of unanticipated severity or frequency, or problems with the facility where the drug is manufactured or if a regulatory authority disagrees with the promotion,

marketing or labeling of that drug, a regulatory authority may impose restrictions relative to that drug, the manufacturing facility or us, including requesting a recall or requiring withdrawal of the drug from the market or suspension of manufacturing.

If we fail to comply with applicable regulatory requirements following approval of our current or future drug candidates, a regulatory authority may:

- issue an untitled letter or warning letter asserting that we are in violation of the law;
- seek an injunction or impose administrative, civil or criminal penalties or monetary fines;
- suspend or withdraw regulatory approval;
- suspend any ongoing clinical trials;
- refuse to approve a pending NDA or comparable foreign marketing application (or any supplements thereto) submitted by us or our strategic partners;
- restrict the marketing or manufacturing of the drug;
- seize or detain the drug or otherwise require the withdrawal of the drug from the market;
- refuse to permit the import or export of drug candidates; or
- refuse to allow us to enter into supply contracts, including government contracts.

Moreover, the FDA strictly regulates the promotional claims that may be made about drug products. In particular, a product may not be promoted for uses that are not approved by the FDA as reflected in the product's approved labeling. The FDA and other agencies actively enforce the laws and regulations prohibiting the promotion of off-label uses, and a company that is found to have improperly promoted off-label uses may be subject to significant civil, criminal and administrative penalties.

Any government investigation of alleged violations of law could require us to expend significant time and resources in response and could generate negative publicity. The occurrence of any event or penalty described above may inhibit our ability to commercialize our current or future drug candidates and harm our business, financial condition, results of operations and prospects.

In addition, the FDA's policies, and those of equivalent foreign regulatory agencies, may change and additional government regulations may be enacted that could cause changes to or delays in the drug review process, or suspend or restrict regulatory approval of our drug candidates. We cannot predict the likelihood, nature or extent of government regulation that may arise from future legislation or administrative action, either in the United States or abroad. If we are slow or unable to adapt to changes in existing requirements or the adoption of new requirements or policies, or if we are not able to maintain regulatory compliance, we may lose any marketing approval that we may have obtained and we may not achieve or sustain profitability, which would harm our business, financial condition, results of operations and prospects.

Risks Related to Our Intellectual Property

If we are unable to obtain and maintain patent protection for our current or any future drug candidates, or if the scope of the patent protection obtained is not sufficiently broad, we may not be able to compete effectively in our markets.

We rely upon a combination of patents, trade secret protection and confidentiality agreements to protect the intellectual property related to our development programs and drug candidates. Our success depends in large part on our ability to obtain and maintain patent protection in the United States and other countries with respect to our current and any future drug candidates. We seek to protect our proprietary position by filing patent applications in the United States and abroad related to our current and future development programs and drug candidates. The patent prosecution process is expensive and time-consuming, and we may not be able to file and prosecute all necessary or desirable patent applications at a reasonable cost or in a timely manner.

Pursuant to the Lundbeck Agreement, as amended, we obtained an exclusive, worldwide license to develop, manufacture and commercialize OV101 for the treatment of human disease. However, the Lundbeck Agreement, as amended, permits Lundbeck and certain other entities to manufacture and research OV101 and, in certain situations, to perform additional non-commercial activities involving OV101, all of which could result in new patentable inventions concerning the manufacture or use of OV101. While the Lundbeck Agreement, as amended, prohibits Lundbeck from filing certain patent applications regarding OV101 and obligates Lundbeck to include certain newly filed patents in the license granted to us, if new patents issue that cover valuable methods for making or using OV101, we would be prohibited from employing such methods to manufacture or use OV101 unless we obtain a license to such patents.

It is also possible that we will fail to identify patentable aspects of our research and development output before it is too late to obtain patent protection. The patent applications that we own or in-license may fail to result in issued patents with claims that cover our current or any future drug candidates in the United States or in other foreign countries. There is no assurance that all of the potentially relevant prior art relating to our patents and patent applications has been found, which can invalidate a patent or prevent a patent from issuing from a pending patent application. Even if patents do successfully issue and even if such patents cover our current or any future drug candidates, third parties may challenge their validity, enforceability or scope, which may result in such patents being narrowed, invalidated, or held unenforceable. Any successful opposition to these patents or any other patents owned by or licensed to us could deprive us of rights necessary for the successful commercialization of any drug

candidates or companion diagnostic that we may develop. Further, if we encounter delays in regulatory approvals, the period of time during which we could market a drug candidate and companion diagnostic under patent protection could be reduced.

If the patent applications we hold or have in-licensed with respect to our development programs and drug candidates fail to issue, if their breadth or strength of protection is threatened, or if they fail to provide meaningful exclusivity for our current or any future drug candidates, it could dissuade companies from collaborating with us to develop drug candidates, and threaten our ability to commercialize, future drugs. Any such outcome could have a negative effect on our business.

The patent position of biotechnology and pharmaceutical companies generally is highly uncertain, involves complex legal and factual questions and has in recent years been the subject of much litigation. In addition, the laws of foreign countries may not protect our rights to the same extent as the laws of the United States. For example, European patent law restricts the patentability of methods of treatment of the human body more than United States law does. Publications of discoveries in scientific literature often lag behind the actual discoveries, and patent applications in the United States and other jurisdictions are typically not published until 18 months after filing, or in some cases not at all. Therefore, we cannot know with certainty whether we were the first to make the inventions claimed in our owned or licensed patents or pending patent applications, or that we were the first to file for patent protection of such inventions. As a result, the issuance, scope, validity, enforceability and commercial value of our patent rights are highly uncertain. Our pending and future patent applications may not result in patents being issued which protect our technology or drugs, in whole or in part, or which effectively prevent others from commercializing competitive technologies and drugs. Changes in either the patent laws or interpretation of the patent laws in the United States and other countries may diminish the value of our patents or narrow the scope of our patent protection.

Recent patent reform legislation could increase the uncertainties and costs surrounding the prosecution of our patent applications and the enforcement or defense of our issued patents. On December 16, 2011, the Leahy-Smith America Invents Act (the "Leahy-Smith Act") was signed into law. The Leahy-Smith Act includes a number of significant changes to United States patent law. These include provisions that affect the way patent applications are prosecuted and may also affect patent litigation. The United States Patent Office recently developed new regulations and procedures to govern administration of the Leahy-Smith Act, and many of the substantive changes to patent law associated with the Leahy-Smith Act, and in particular, the first to file provisions, only became effective on March 16, 2013. Accordingly, it is not clear what, if any, impact the Leahy-Smith Act will have on the operation of our business. However, the Leahy-Smith Act and its implementation could increase the uncertainties and costs surrounding the prosecution of our patent applications and the enforcement or defense of our issued patents, all of which could harm our business and financial condition.

Moreover, we may be subject to a third-party pre-issuance submission of prior art to the U.S. Patent and Trademark Office (the "USPTO") or become involved in opposition, derivation, reexamination, inter partes review, post-grant review or interference proceedings challenging our patent rights or the patent rights of others. An adverse determination in any such submission, proceeding or litigation could reduce the scope of, or invalidate, our patent rights, allow third parties to commercialize our technology or drugs and compete directly with us, without payment to us, or result in our inability to manufacture or commercialize drugs without infringing third-party patent rights. In addition, if the breadth or strength of protection provided by our patents and patent applications is threatened, it could dissuade companies from collaborating with us to license, develop or commercialize current or future drug candidates.

The issuance of a patent is not conclusive as to its inventorship, scope, validity or enforceability, and our owned and licensed patents may be challenged in the courts or patent offices in the United States and abroad. An adverse determination in any such challenges may result in loss of exclusivity or in patent claims being narrowed, invalidated or held unenforceable, in whole or in part, which could limit our ability to stop others from using or commercializing similar or identical technology and drugs, or limit the duration of the patent protection of our technology and drugs. Moreover, patents have a limited lifespan. In the United States, the natural expiration of a patent is generally 20 years from the earliest filing date of a non-provisional patent application. Various extensions may be available; however, the life of a patent, and the protection it affords, is limited. Without patent protection for our current or future drug candidates, we may be open to competition from generic versions of such drugs. Given the amount of time required for the development, testing and regulatory review of new drug candidates, patents protecting such candidates might expire before or shortly after such candidates are commercialized. As a result, our owned and licensed patent portfolio may not provide us with sufficient rights to exclude others from commercializing drugs similar or identical to ours.

We may be unable to prevent third parties from selling, making, promoting, manufacturing, or distributing alternative polymorphic forms of OV101.

We currently have issued patents directed to polymorphic forms of OV101. These patents would not prevent a third-party from creating, making and marketing alternative polymorphic forms that fall outside the scope of these patent claims. There can be no assurance that any such alternative polymorphic forms will not be therapeutically equivalent and/or commercially feasible. In the event an alternative polymorphic form of OV101 is developed and approved for use in indications that we may seek approval for, the marketability and commercial success of OV101, if approved, could be materially harmed.

Obtaining and maintaining our patent protection depends on compliance with various procedural, document submission, fee payment and other requirements imposed by government patent agencies, and our patent protection could be reduced or eliminated for non-compliance with these requirements.

Periodic maintenance fees, renewal fees, annuity fees and various other government fees on patents and/or applications will be due to be paid to the USPTO and various government patent agencies outside of the United States over the lifetime of our owned and licensed patents and/or applications and any patent rights we may own or license in the future. We rely on our outside counsel or our licensing partners to pay these fees due to non-U.S. patent agencies. The USPTO and various non-U.S. government patent agencies require compliance with several procedural, documentary, fee payment and other similar provisions during the patent application process. We employ reputable law firms and other professionals to help us comply and we are also dependent on our licensors to take the necessary action to comply with these requirements with respect to our licensed intellectual property. In many cases, an inadvertent lapse can be cured by payment of a late fee or by other means in accordance with the applicable rules. There are situations, however, in which non-compliance can result in abandonment or lapse of the patent or patent application, resulting in partial or complete loss of patent rights in the relevant jurisdiction. In such an event, potential competitors might be able to enter the market and this circumstance could harm our business.

Patent terms may be inadequate to protect our competitive position on our drug candidates for an adequate amount of time.

Given the amount of time required for the development, testing and regulatory review of new drug candidates, patents protecting such candidates might expire before or shortly after such candidates are commercialized. We expect to seek extensions of patent terms in the United States and, if available, in other countries where we are prosecuting patents. In the United States, the Drug Price Competition and Patent Term Restoration Act of 1984 permits a patent term extension of up to five years beyond the normal expiration of the patent, which is limited to the approved indication (or any additional indications approved during the period of extension). However, the applicable authorities, including the FDA and the USPTO in the United States, and any equivalent regulatory authority in other countries, may not agree with our assessment of whether such extensions are available, and may refuse to grant extensions to our patents, or may grant more limited extensions than we request. If this occurs, our competitors may be able to take advantage of our investment in development and clinical trials by referencing our clinical and preclinical data and launch their drug earlier than might otherwise be the case.

Intellectual property rights do not necessarily address all potential threats to our business.

The degree of future protection afforded by our intellectual property rights is uncertain because intellectual property rights have limitations, and may not adequately protect our business. The following examples are illustrative:

- others may be able to make compounds or formulations that are similar to our drug candidates but that are not covered by the claims of any patents, should they issue, that we own or control;
- we or any strategic partners might not have been the first to make the inventions covered by the issued patents or pending patent applications that we own or control;
- we might not have been the first to file patent applications covering certain of our inventions;
- others may independently develop similar or alternative technologies or duplicate any of our technologies without infringing our intellectual property rights;
- it is possible that our pending patent applications will not lead to issued patents;
- issued patents that we own or control may not provide us with any competitive advantages, or may be held invalid or unenforceable because of legal challenges;
- our competitors might conduct research and development activities in the United States and other countries that provide a safe harbor from patent infringement claims for certain research and development activities, as well as in countries where we do not have patent rights and then use the information learned from such activities to develop competitive drugs for sale in our major commercial markets;
- we may not develop additional proprietary technologies that are patentable; and
- the patents of others may have an adverse effect on our business.

The proprietary map of disease-relevant biological pathways underlying orphan disorders of the brain that we developed would not be appropriate for patent protection and, as a result, we rely on trade secrets to protect this aspect of our business.

Third parties may initiate legal proceedings alleging that we are infringing their intellectual property rights, the outcome of which would be uncertain and could have a negative impact on the success of our business.

Our commercial success depends, in part, upon our ability and the ability of our current or future collaborators to develop, manufacture, market and sell our current and any future drug candidates and use our proprietary technologies without infringing the proprietary rights and intellectual property of third parties. The biotechnology and pharmaceutical industries are characterized by extensive and complex litigation regarding patents and other intellectual property rights. We may in the future become party to, or be threatened with, adversarial proceedings or litigation regarding intellectual property rights with respect to our current and any future drug candidates and technology, including interference proceedings, post grant review and inter partes review before the USPTO. Third parties may assert infringement claims against us based on existing patents or patents that may be granted in the future, regardless of their merit. There is a risk that third parties may choose to engage in litigation with us to enforce or to otherwise assert their patent rights against us. Even if we believe such claims are without merit, a court of competent jurisdiction could hold that these third-party patents are valid, enforceable and infringed, which could have a negative impact on our ability to commercialize our

current and any future drug candidates. In order to successfully challenge the validity of any such U.S. patent in federal court, we would need to overcome a presumption of validity. As this burden is a high one requiring us to present clear and convincing evidence as to the invalidity of any such U.S. patent claim, there is no assurance that a court of competent jurisdiction would invalidate the claims of any such U.S. patent. If we are found to infringe a third party's valid and enforceable intellectual property rights, we could be required to obtain a license from such third party to continue developing, manufacturing and marketing our drug candidate(s) and technology. However, we may not be able to obtain any required license on commercially reasonable terms or at all. Even if we were able to obtain a license, it could be non-exclusive, thereby giving our competitors and other third parties access to the same technologies licensed to us, and it could require us to make substantial licensing and royalty payments. We could be forced, including by court order, to cease developing, manufacturing and commercializing the infringing technology or drug candidate. In addition, we could be found liable for monetary damages, including treble damages and attorneys' fees, if we are found to have willfully infringed a patent or other intellectual property right. A finding of infringement could prevent us from manufacturing and commercializing our current or any future drug candidates or force us to cease some or all of our business operations, which could materially harm our business. Claims that we have misappropriated the confidential information or trade secrets of third parties could have a similar negative impact on our business, financial condition, results of operations and prospects. See the section herein titled "Legal Proceedings" for additional information.

We may be subject to claims asserting that our employees, consultants or advisors have wrongfully used or disclosed alleged trade secrets of their current or former employers or claims asserting ownership of what we regard as our own intellectual property.

Certain of our employees, consultants or advisors are currently, or were previously, employed at universities or other biotechnology or pharmaceutical companies, including our competitors or potential competitors. Although we try to ensure that our employees, consultants and advisors do not use the proprietary information or know-how of others in their work for us, we may be subject to claims that these individuals or we have used or disclosed intellectual property, including trade secrets or other proprietary information, of any such individual's current or former employer. Litigation may be necessary to defend against these claims. If we fail in defending any such claims, in addition to paying monetary damages, we may lose valuable intellectual property rights or personnel. Even if we are successful in defending against such claims, litigation could result in substantial costs and be a distraction to management.

In addition, while it is our policy to require our employees and contractors who may be involved in the conception or development of intellectual property to execute agreements assigning such intellectual property to us, we may be unsuccessful in executing such an agreement with each party who, in fact, conceives or develops intellectual property that we regard as our own. The assignment of intellectual property rights may not be self-executing or the assignment agreements may be breached, and we may be forced to bring claims against third parties, or defend claims that they may bring against us, to determine the ownership of what we regard as our intellectual property.

We may be involved in lawsuits to protect or enforce our patents, the patents of our licensors or our other intellectual property rights, which could be expensive, time consuming and unsuccessful.

Competitors may infringe or otherwise violate our patents, the patents of our licensors or our other intellectual property rights. To counter infringement or unauthorized use, we may be required to file legal claims, which can be expensive and time-consuming. In addition, in an infringement proceeding, a court may decide that a patent of ours or our licensors is not valid or is unenforceable, or may refuse to stop the other party from using the technology at issue on the grounds that our patents do not cover the technology in question. An adverse result in any litigation or defense proceedings could put one or more of our patents at risk of being invalidated or interpreted narrowly and could put our patent applications at risk of not issuing. The initiation of a claim against a third party may also cause the third party to bring counter claims against us such as claims asserting that our patents are invalid or unenforceable. In patent litigation in the United States, defendant counterclaims alleging invalidity or unenforceability are commonplace. Grounds for a validity challenge could be an alleged failure to meet any of several statutory requirements, including lack of novelty, obviousness, non-enablement or lack of statutory subject matter. Grounds for an unenforceability assertion could be an allegation that someone connected with prosecution of the patent withheld relevant material information from the USPTO, or made a materially misleading statement, during prosecution. Third parties may also raise similar validity claims before the USPTO in post-grant proceedings such as ex parte reexaminations, inter partes review, or post-grant review, or oppositions or similar proceedings outside the United States, in parallel with litigation or even outside the context of litigation. The outcome following legal assertions of invalidity and unenforceability is unpredictable. We cannot be certain that there is no invalidating prior art, of which we and the patent examiner were unaware during prosecution. For the patents and patent applications that we have licensed, we may have limited or no right to participate in the defense of any licensed patents against challenge by a third party. If a defendant were to prevail on a legal assertion of invalidity or unenforceability, we would lose at least part, and perhaps all, of any future patent protection on our current or future drug candidates. Such a loss of patent protection could harm our business.

We may not be able to prevent, alone or with our licensors, misappropriation of our intellectual property rights, particularly in countries where the laws may not protect those rights as fully as in the United States. Our business could be harmed if in litigation the prevailing party does not offer us a license on commercially reasonable terms. Any litigation or other proceedings to enforce our intellectual property rights may fail, and even if successful, may result in substantial costs and distract our management and other employees.

Furthermore, because of the substantial amount of discovery required in connection with intellectual property litigation, there is a risk that some of our confidential information could be compromised by disclosure during this type of litigation. There could also be public announcements of the results of hearings, motions or other interim proceedings or developments. If securities analysts or investors perceive these results to be negative, it could have an adverse effect on the price of our common stock.

Changes in U.S. patent law or the patent law of other countries or jurisdictions could diminish the value of patents in general, thereby impairing our ability to protect our current and any future drug candidates.

The United States has recently enacted and implemented wide-ranging patent reform legislation. The U.S. Supreme Court has ruled on several patent cases in recent years, either narrowing the scope of patent protection available in certain circumstances or weakening the rights of patent owners in certain situations. In addition to increasing uncertainty with regard to our ability to obtain patents in the future, this combination of events has created uncertainty with respect to the value of patents, once obtained. Depending on actions by the U.S. Congress, the federal courts, and the USPTO, the laws and regulations governing patents could change in unpredictable ways that would weaken our ability to obtain new patents or to enforce patents that we have licensed or that we might obtain in the future. Similarly, changes in patent law and regulations in other countries or jurisdictions or changes in the governmental bodies that enforce them or changes in how the relevant governmental authority enforces patent laws or regulations may weaken our ability to obtain new patents or to enforce patents that we have licensed or that we may obtain in the future.

We may not be able to protect our intellectual property rights throughout the world, which could negatively impact our business.

Filing, prosecuting and defending patents covering our current and any future drug candidates throughout the world would be prohibitively expensive. Competitors may use our technologies in jurisdictions where we have not obtained patent protection to develop their own drugs and, further, may export otherwise infringing drugs to territories where we may obtain patent protection, but where patent enforcement is not as strong as that in the United States. These drugs may compete with our drugs in jurisdictions where we do not have any issued or licensed patents and any future patent claims or other intellectual property rights may not be effective or sufficient to prevent them from so competing.

Reliance on third parties requires us to share our trade secrets, which increases the possibility that a competitor will discover them or that our trade secrets will be misappropriated or disclosed.

If we rely on third parties to manufacture or commercialize our current or any future drug candidates, or if we collaborate with additional third parties for the development of our current or any future drug candidates, we must, at times, share trade secrets with them. We may also conduct joint research and development programs that may require us to share trade secrets under the terms of our research and development partnerships or similar agreements. We seek to protect our proprietary technology in part by entering into confidentiality agreements and, if applicable, material transfer agreements, consulting agreements or other similar agreements with our advisors, employees, third-party contractors and consultants prior to beginning research or disclosing proprietary information. These agreements typically limit the rights of the third parties to use or disclose our confidential information, including our trade secrets. Despite the contractual provisions employed when working with third parties, the need to share trade secrets and other confidential information increases the risk that such trade secrets become known by our competitors, are inadvertently incorporated into the technology of others, or are disclosed or used in violation of these agreements. Given that our proprietary position is based, in part, on our know-how and trade secrets, a competitor's discovery of our trade secrets or other unauthorized use or disclosure could have an adverse effect on our business and results of operations.

In addition, these agreements typically restrict the ability of our advisors, employees, third-party contractors and consultants to publish data potentially relating to our trade secrets. Despite our efforts to protect our trade secrets, our competitors may discover our trade secrets, either through breach of our agreements with third parties, independent development or publication of information by any third-party collaborators. A competitor's discovery of our trade secrets would harm our business.

Risks Related to Our Dependence on Third Parties

We do not have our own manufacturing capabilities and will rely on third parties to produce clinical and commercial supplies of our current and any future drug candidates.

We do not own or operate, and we do not expect to own or operate, facilities for drug manufacturing, storage and distribution, or testing. We will be dependent on third parties to manufacture the clinical supplies of our drug candidates. The drug substance for OV101 was manufactured by Lundbeck. We believe that the drug substance transferred from Lundbeck under the Lundbeck Agreement will be sufficient for us to complete our future clinical trials.

Further, we also will rely on third-party manufacturers to supply us with sufficient quantities of our drug candidates to be used, if approved, for commercialization. Any significant delay in the supply of a drug candidate, or the raw material components thereof, for an ongoing clinical trial due to the need to replace a third-party manufacturer could considerably delay completion of our clinical trials, product testing and potential regulatory approval of our drug candidates.

Further, our reliance on third-party manufacturers entails risks to which we would not be subject if we manufactured drug candidates ourselves including:

- inability to meet our drug specifications and quality requirements consistently;
- delay or inability to procure or expand sufficient manufacturing capacity;
- issues related to scale-up of manufacturing;
- costs and validation of new equipment and facilities required for scale-up;
- failure to comply with cGMP and similar foreign standards;
- inability to negotiate manufacturing agreements with third parties under commercially reasonable terms, if at all;
- termination or nonrenewal of manufacturing agreements with third parties in a manner or at a time that is costly or damaging to us;
- reliance on single sources for drug components;
- lack of qualified backup suppliers for those components that are currently purchased from a sole or single source supplier;
- operations of our third-party manufacturers or suppliers could be disrupted by conditions unrelated to our business or operations, including the bankruptcy of the manufacturer or supplier; and
- carrier disruptions or increased costs that are beyond our control.

Any of these events could lead to clinical trial delays, failure to obtain regulatory approval or impact our ability to successfully commercialize our current or any future drug candidates once approved. Some of these events could be the basis for FDA action, including injunction, request for recall, seizure, or total or partial suspension of production.

We intend to rely on third parties to conduct, supervise and monitor our preclinical studies and clinical trials, and if those third parties perform in an unsatisfactory manner, it may harm our business.

We do not currently have the ability to independently conduct any clinical trials. We intend to rely on CROs and clinical trial sites to ensure the proper and timely conduct of our preclinical studies and clinical trials, and we expect to have limited influence over their actual performance. We intend to rely upon CROs to monitor and manage data for our clinical programs, as well as the execution of future nonclinical studies. We expect to control only certain aspects of our CROs' activities. Nevertheless, we will be responsible for ensuring that each of our preclinical studies or clinical trials are conducted in accordance with the applicable protocol, legal, regulatory and scientific standards and our reliance on the CROs does not relieve us of our regulatory responsibilities.

We and our CROs will be required to comply with good laboratory practices ("GLPs") and good clinical practices ("GCPs"), which are regulations and guidelines enforced by the FDA and are also required by the Competent Authorities of the Member States of the European Economic Area and comparable foreign regulatory authorities in the form of International Council for Harmonization guidelines for any of our drug candidates that are in preclinical and clinical development. The regulatory authorities enforce GCPs through periodic inspections of trial sponsors, principal investigators and clinical trial sites. Although we will rely on CROs to conduct GCP-compliant clinical trials, we remain responsible for ensuring that each of our GLP preclinical studies and clinical trials is conducted in accordance with its investigational plan and protocol and applicable laws and regulations, and our reliance on the CROs does not relieve us of our regulatory responsibilities. If we or our CROs fail to comply with GCPs, the clinical data generated in our clinical trials may be deemed unreliable and the FDA or comparable foreign regulatory authorities may require us to perform additional clinical trials before approving our marketing applications. Accordingly, if our CROs fail to comply with these regulations or fail to recruit a sufficient number of subjects, we may be required to repeat clinical trials, which would delay the regulatory approval process.

While we will have agreements governing their activities, our CROs will not be our employees, and we will not control whether or not they devote sufficient time and resources to our future clinical and nonclinical programs. These CROs may also have relationships with other commercial entities, including our competitors, for whom they may also be conducting clinical trials, or other drug development activities which could harm our business. We face the risk of potential unauthorized disclosure or misappropriation of our intellectual property by CROs, which may reduce our trade secret protection and allow our potential competitors to access and exploit our proprietary technology. If our CROs do not successfully carry out their contractual duties or obligations, fail to meet expected deadlines, or if the quality or accuracy of the clinical data they obtain is compromised due to the failure to adhere to our clinical protocols or regulatory requirements or for any other reasons, our clinical trials may be extended, delayed or terminated, and we may not be able to obtain regulatory approval for, or successfully commercialize any drug candidate that we develop. As a result, our financial results and the commercial prospects for any drug candidate that we develop would be harmed, our costs could increase, and our ability to generate revenue could be delayed.

If our relationship with these CROs terminates, we may not be able to enter into arrangements with alternative CROs or do so on commercially reasonable terms. Switching or adding additional CROs involves substantial cost and requires management time and focus. In addition, there is a natural transition period when a new CRO commences work. As a result, delays occur, which can negatively impact our ability to meet our desired clinical development timelines. Though we intend to carefully manage our relationships with our CROs, there can be no assurance that we will not encounter challenges or delays in the future or that these delays or challenges will not have a negative impact on our business, financial condition and prospects.

In addition, principal investigators for our clinical trials may serve as scientific advisors or consultants to us from time to time and receive compensation in connection with such services. Under certain circumstances, we may be required to report some of these relationships to the FDA. The FDA may conclude that a financial relationship between us and a principal investigator has created a conflict of interest or otherwise affected interpretation of the trial. The FDA may therefore question the integrity of the data generated at the applicable clinical trial site and the utility of the clinical trial itself may be jeopardized. This could result in a delay in approval, or rejection, of our marketing applications by the FDA and may ultimately lead to the denial of marketing approval of our current and future drug candidates.

Risks Related to Our Business Operations, Employee Matters and Managing Growth

COVID-19 could adversely impact our business, including our clinical trials and access to capital.

The ongoing COVID-19 pandemic has resulted in travel and other restrictions in order to reduce the spread of the disease, including state and local orders across the country, which, among other things, direct individuals to shelter at their places of residence, direct businesses and governmental agencies to cease non-essential operations at physical locations, prohibit certain non-essential gatherings, and order cessation of non-essential travel. In response to these public health directives and orders, we have implemented work-from-home policies for all employees. Our current plans to return to the office remain fluid as federal, state and local guidelines, rules and regulations continue to evolve. The effects of the executive orders, the shelter-in-place orders and our work-from-home policies may negatively impact productivity, disrupt our business and delay our clinical programs and timelines, the magnitude of which will depend, in part, on the length and severity of the restrictions and other limitations on our ability to conduct our business in the ordinary course. These and similar, and perhaps more severe, disruptions in our operations could negatively impact our business, operating results and financial condition.

Quarantines, shelter-in-place and similar government orders related to COVID-19 may adversely impact our business operations and the business operations of our contract research organizations conducting our clinical trials and our third-party manufacturing facilities in the United States and other countries. In particular, some of our third-party manufacturers which we use for the supply of materials for product candidates or other materials necessary to manufacture product to conduct preclinical studies and clinical trials are located in countries affected by COVID-19, and should they experience disruptions, such as temporary closures or suspension of services, we would likely experience delays in advancing these tests and trials. Currently, we expect no material impact on the clinical supply of any of our product candidates.

In addition, our clinical trials may be affected by the COVID-19 pandemic.

Clinical site initiation and patient enrollment may be delayed due to prioritization of hospital resources toward the COVID-19 pandemic. Some patients may not be willing or able to comply with clinical trial protocols if quarantines impede patient movement or interrupt healthcare services. Similarly, our ability to recruit and retain patients and principal investigators and site staff who, as healthcare providers, may have heightened exposure to COVID-19 and adversely impact our clinical trial operations. As a result of the COVID-19 pandemic, we have faced and may continue to face delays in meeting our anticipated timelines for our ongoing and planned clinical trials.

The spread of COVID-19, which has caused a broad impact globally, may materially affect us economically. While the potential economic impact brought by, and the duration of, COVID-19 may be difficult to assess or predict, a widespread pandemic could result in significant disruption of global financial markets, reducing our ability to access capital, which could in the future negatively affect our liquidity. In addition, a recession or market correction resulting from the spread of COVID-19 could materially affect our business and the value of our common stock.

The global pandemic of COVID-19 continues to rapidly evolve. The extent to which the COVID-19 pandemic impacts our business, our clinical development and regulatory efforts will depend on future developments that are highly uncertain and cannot be predicted with confidence, such as the duration of the outbreak, travel restrictions, quarantines, social distancing requirements and business closures in the United States and other countries, and business disruptions, and the effectiveness of actions taken in the United States and other countries to contain and treat the disease. Accordingly, we do not yet know the full extent of potential delays or impacts on our business, our clinical and regulatory activities, healthcare systems or the global economy as a whole. However, these impacts could adversely affect our business, financial condition, results of operations and growth prospects.

In addition, to the extent the ongoing COVID-19 pandemic adversely affects our business and results of operations, it may also have the effect of heightening many of the other risks and uncertainties described in this “Risk Factors” section.

We are highly dependent on the services of our senior management team, including our Chairman and Chief Executive Officer, Dr. Jeremy Levin, and if we are not able to retain these members of our management team or recruit and retain additional management, clinical and scientific personnel, our business will be harmed.

We are highly dependent on our senior management team, including our Chairman and Chief Executive Officer, Dr. Levin. The employment agreements we have with these officers do not prevent such persons from terminating their employment with us at any time. The loss of the services of any of these persons could impede the achievement of our research, development and commercialization objectives.

In addition, we are dependent on our continued ability to attract, retain and motivate highly qualified additional management, clinical and scientific personnel. If we are not able to retain our management and to attract, on acceptable terms, additional qualified personnel necessary for the

continued development of our business, we may not be able to sustain our operations or grow. This risk may be further amplified given the particularly competitive hiring market in New York City, the location of our corporate headquarters.

We may not be able to attract or retain qualified personnel in the future due to the intense competition for qualified personnel among biotechnology, pharmaceutical and other businesses. Many of the other pharmaceutical companies that we compete against for qualified personnel and consultants have greater financial and other resources, different risk profiles and a longer history in the industry than we do. They also may provide more diverse opportunities and better chances for career advancement. Some of these characteristics may be more appealing to high-quality candidates and consultants than what we have to offer. If we are unable to continue to attract, retain and motivate high-quality personnel and consultants to accomplish our business objectives, the rate and success at which we can discover and develop drug candidates and our business will be limited and we may experience constraints on our development objectives.

Our future performance will also depend, in part, on our ability to successfully integrate newly hired executive officers into our management team and our ability to develop an effective working relationship among senior management. Our failure to integrate these individuals and create effective working relationships among them and other members of management could result in inefficiencies in the development and commercialization of our drug candidates, harming future regulatory approvals, sales of our drug candidates and our results of operations. Additionally, we do not currently maintain “key person” life insurance on the lives of our executives or any of our employees.

We may need to expand our organization, and we may experience difficulties in managing this growth, which could disrupt our operations.

As of March 31, 2021, we had 64 full-time employees. As our development and commercialization plans and strategies develop, we expect to need additional managerial, operational, sales, marketing, financial, legal and other resources. Our management may need to divert a disproportionate amount of its attention away from our day-to-day operations and devote a substantial amount of time to managing these growth activities. We may not be able to effectively manage the expansion of our operations, which may result in weaknesses in our infrastructure, operational inefficiencies, loss of business opportunities, loss of employees and reduced productivity among remaining employees. Our expected growth could require significant capital expenditures and may divert financial resources from other projects, such as the development of our current and potential future drug candidates. If our management is unable to effectively manage our growth, our expenses may increase more than expected, our ability to generate and grow revenue could be reduced and we may not be able to implement our business strategy. Our future financial performance, our ability to commercialize drug candidates, develop a scalable infrastructure and compete effectively will depend, in part, on our ability to effectively manage any future growth.

Our employees, principal investigators, consultants and commercial partners may engage in misconduct or other improper activities, including non-compliance with regulatory standards and requirements and insider trading.

We are exposed to the risk that our employees, consultants, distributors, and collaborators may engage in fraudulent or illegal activity. Misconduct by these parties could include intentional, reckless or negligent conduct or disclosure of unauthorized activities to us that violates the regulations of the FDA and non-U.S. regulators, including those laws requiring the reporting of true, complete and accurate information to such regulators, manufacturing standards, healthcare fraud and abuse laws and regulations in the United States and abroad or laws that require the true, complete and accurate reporting of financial information or data. In particular, sales, marketing and business arrangements in the healthcare industry, including the sale of pharmaceuticals, are subject to extensive laws and regulations intended to prevent fraud, misconduct, kickbacks, self-dealing and other abusive practices. These laws and regulations may restrict or prohibit a wide range of pricing, discounting, marketing and promotion, sales commission, customer incentive programs and other business arrangements. It is not always possible to identify and deter misconduct by our employees and other third parties, and the precautions we take to detect and prevent this activity may not be effective in controlling unknown or unmanaged risks or losses or in protecting us from governmental investigations or other actions or lawsuits stemming from a failure to comply with these laws or regulations. Further, because of the work from home policies we implemented due to COVID-19, information that is normally protected, including company confidential information, may be less secure. If actions are instituted against us and we are not successful in defending ourselves or asserting our rights, those actions could result in the imposition of significant fines or other sanctions, including the imposition of civil, criminal and administrative penalties, damages, monetary fines, imprisonment, possible exclusion from participation in Medicare, Medicaid and other federal healthcare programs, additional reporting obligations and oversight if we become subject to a corporate integrity agreement or other agreement to resolve allegations of non-compliance with these laws, contractual damages, reputational harm, diminished profits and future earnings and curtailment of operations, any of which could adversely affect our ability to operate our business and our results of operations. Whether or not we are successful in defending against such actions or investigations, we could incur substantial costs, including legal fees, and divert the attention of management in defending ourselves against any of these claims or investigations.

Significant disruptions of our information technology systems or data security incidents could result in significant financial, legal, regulatory, business and reputational harm to us.

We are increasingly dependent on information technology systems and infrastructure, including mobile technologies, to operate our business. In the ordinary course of our business, we collect, store, process and transmit large amounts of sensitive information, including intellectual property, proprietary business information, personal information and other confidential information. It is critical that we do so in a secure manner to maintain the confidentiality, integrity and availability of such sensitive information. We have also outsourced elements of our operations (including elements of our information technology infrastructure) to third parties, and as a result, we manage a number of third-party vendors who may or could have access to our computer networks or our confidential information. In addition, many of those third parties in turn subcontract or outsource some of their responsibilities to third parties. While all information technology operations are inherently vulnerable to inadvertent or intentional security

breaches, incidents, attacks and exposures, the accessibility and distributed nature of our information technology systems, and the sensitive information stored on those systems, make such systems potentially vulnerable to unintentional or malicious, internal and external attacks on our technology environment. In addition, due to the COVID-19 pandemic, we have enabled all of our employees to work remotely, which may make us more vulnerable to cyberattacks. Potential vulnerabilities can be exploited from inadvertent or intentional actions of our employees, third-party vendors, business partners, or by malicious third parties. Attacks of this nature are increasing in their frequency, levels of persistence, sophistication and intensity, and are being conducted by sophisticated and organized groups and individuals with a wide range of motives (including, but not limited to, industrial espionage) and expertise, including organized criminal groups, “hacktivists,” nation states and others. In addition to the extraction of sensitive information, such attacks could include the deployment of harmful malware, ransomware, denial-of-service attacks, social engineering and other means to affect service reliability and threaten the confidentiality, integrity and availability of information. In addition, the prevalent use of mobile devices increases the risk of data security incidents.

Significant disruptions of our, our third-party vendors’ and/or business partners’ information technology systems or other similar data security incidents could adversely affect our business operations and/or result in the loss, misappropriation, and/or unauthorized access, use or disclosure of, or the prevention of access to, sensitive information, which could result in financial, legal, regulatory, business and reputational harm to us. In addition, information technology system disruptions, whether from attacks on our technology environment or from computer viruses, natural disasters, terrorism, war and telecommunication and electrical failures, could result in a material disruption of our development programs and our business operations. For example, the loss of clinical trial data from completed or future clinical trials could result in delays in our regulatory approval efforts and significantly increase our costs to recover or reproduce the data.

There is no way of knowing with certainty whether we have experienced any data security incidents that have not been discovered. While we have no reason to believe this to be the case, attackers have become very sophisticated in the way they conceal access to systems, and many companies that have been attacked are not aware that they have been attacked. Any event that leads to unauthorized access, use or disclosure of personal information, including but not limited to personal information regarding our patients or employees, could disrupt our business, harm our reputation, compel us to comply with applicable federal and/or state breach notification laws and foreign law equivalents, subject us to time consuming, distracting and expensive litigation, regulatory investigation and oversight, mandatory corrective action, require us to verify the correctness of database contents, or otherwise subject us to liability under laws, regulations and contractual obligations, including those that protect the privacy and security of personal information. This could result in increased costs to us, and result in significant legal and financial exposure and/or reputational harm. In addition, any failure or perceived failure by us or our vendors or business partners to comply with our privacy, confidentiality or data security-related legal or other obligations to third parties, or any further security incidents or other inappropriate access events that result in the unauthorized access, release or transfer of sensitive information, which could include personally identifiable information, may result in governmental investigations, enforcement actions, regulatory fines, litigation, or public statements against us by advocacy groups or others, and could cause third parties, including clinical sites, regulators or current and potential partners, to lose trust in us or we could be subject to claims by third parties that we have breached our privacy- or confidentiality-related obligations, which could materially and adversely affect our business and prospects. Moreover, data security incidents and other inappropriate access can be difficult to detect, and any delay in identifying them may lead to increased harm of the type described above. While we have implemented security measures intended to protect our information technology systems and infrastructure, there can be no assurance that such measures will successfully prevent service interruptions or security incidents.

We may be subject to numerous and varying privacy and security laws, and our failure to comply could result in penalties and reputational damage.

We are subject to laws and regulations covering data privacy and the protection of personal information including health information. The legislative and regulatory landscape for privacy and data protection continues to evolve, and there has been an increasing focus on privacy and data protection issues which may affect our business. In the U.S., we may be subject to state security breach notification laws, state health information privacy laws and federal and state consumer protections laws which impose requirements for the collection, use, disclosure and transmission of personal information. Each of these laws is subject to varying interpretations by courts and government agencies, creating complex compliance issues for us. If we fail to comply with applicable laws and regulations we could be subject to penalties or sanctions, including criminal penalties if we knowingly obtain individually identifiable health information from a covered entity in a manner that is not authorized or permitted by HIPAA or for aiding and abetting the violation of HIPAA.

Numerous other countries have, or are developing, laws governing the collection, use and transmission of personal information as well. EU member states and other jurisdictions have adopted data protection laws and regulations, which impose significant compliance obligations. For example, in May 2016, the EU formally adopted the General Data Protection Regulation, or GDPR, which applies to all EU member states as of May 25, 2018 and replaces the former EU Data Protection Directive. The regulation introduces new data protection requirements in the EU and imposes substantial fines for breaches of the data protection rules. The GDPR must be implemented into national laws by the EU member states imposes strict obligations and restrictions on the ability to collect, analyze, and transfer personal data, including health data from clinical trials and adverse event reporting. Data protection authorities from different EU member states have interpreted the privacy laws differently, which adds to the complexity of processing personal data in the EU, and guidance on implementation and compliance practices are often updated or otherwise revised. Any failure to comply with the rules arising from the GDPR and related national laws of EU member states could lead to government enforcement actions and significant penalties against us, and adversely impact our operating results. The GDPR will increase our responsibility and liability in relation to personal data that we process and we may be required to put in place additional mechanisms ensuring compliance with EU data protection rules.

Additionally, California enacted the California Consumer Privacy Act (the “CCPA”) legislation that has been dubbed the first “GDPR-like” law in the United States. The CCPA gives California residents expanded rights to access and delete their personal information, opt out of certain personal information sharing and receive detailed information about how their personal information is used by requiring covered companies to

provide new disclosures to California consumers (as that term is broadly defined) and provide such consumers new ways to opt-out of certain sales of personal information. The CCPA provides for civil penalties for violations, as well as a private right of action for data breaches that is expected to increase data breach litigation. The CCPA may increase our compliance costs and potential liability.

Risks Related to Being a Public Company

We are an “emerging growth company” and a “smaller reporting company” and the reduced disclosure requirements applicable to such companies may make our common stock less attractive to investors.

We are an emerging growth company (“EGC”), as defined in the Jumpstart Our Business Startups Act of 2012 (the “JOBS Act”). We will remain an EGC until the earlier of: (i) the last day of the fiscal year in which we have total annual gross revenues of \$1.07 billion or more; (ii) December 31, 2022, the last day of the fiscal year following the fifth anniversary of the date of the completion of our IPO; (iii) the date on which we have issued more than \$1.0 billion in nonconvertible debt during the previous three years; or (iv) the date on which we are deemed to be a large accelerated filer under the rules of the Securities and Exchange Commission (“SEC”). For so long as we remain an EGC, we are permitted and intend to rely on exemptions from certain disclosure requirements that are applicable to other public companies that are not emerging growth companies. These exemptions include:

- not being required to comply with the auditor attestation requirements of Section 404 of the Sarbanes-Oxley Act of 2002 (“Section 404”);
- not being required to comply with any requirement that may be adopted by the Public Company Accounting Oversight Board regarding mandatory audit firm rotation or a supplement to the auditor’s report providing additional information about the audit and the financial statements;
- being permitted to provide only two years of audited financial statements, in addition to any required unaudited interim financial statements, with correspondingly reduced “Management’s Discussion and Analysis of Financial Condition and Results of Operations” disclosure;
- reduced disclosure obligations regarding executive compensation arrangements; and
- exemptions from the requirements of holding a nonbinding advisory vote on executive compensation and stockholder approval of any golden parachute payments not previously approved.

We currently intend to take advantage of some, but not all, of the reduced regulatory and reporting requirements that will be available to us so long as we qualify as an EGC. For example, our independent registered public accounting firm will not be required to provide an attestation report on the effectiveness of our internal control over financial reporting so long as we qualify as an EGC, which may increase the risk that material weaknesses or significant deficiencies in our internal control over financial reporting go undetected. Likewise, so long as we qualify as an EGC, we may elect not to provide you with certain information, including certain financial information and certain information regarding compensation of our executive officers, that we would otherwise have been required to provide in filings we make with the SEC, which may make it more difficult for investors and securities analysts to evaluate our company. We cannot predict if investors will find our common stock less attractive because we may rely on these exemptions. If some investors find our common stock less attractive as a result, there may be a less active trading market for our common stock, and our stock price may be more volatile and may decline.

In addition, the JOBS Act provides that an EGC may take advantage of an extended transition period for complying with new or revised accounting standards. This allows an EGC to delay the adoption of certain accounting standards until those standards would otherwise apply to private companies. We have irrevocably elected not to avail ourselves of this exemption from new or revised accounting standards and, therefore, we will be subject to the same new or revised accounting standards as other public companies that are not an EGC.

We are also a smaller reporting company as defined in the Exchange Act. We may continue to be a smaller reporting company even after we are no longer an emerging growth company. We may take advantage of certain of the scaled disclosures available to smaller reporting companies and will be able to take advantage of these scaled disclosures for so long as (i) our voting and non-voting common stock held by nonaffiliates is less than \$250.0 million measured on the last business day of our second fiscal quarter or (ii) our annual revenue is less than \$100.0 million during the most recently completed fiscal year and our voting and non-voting common stock held by non-affiliates is less than \$700.0 million measured on the last business day of our second fiscal quarter.

We will continue to incur increased costs as a result of operating as a public company, and our management will devote substantial time to new compliance initiatives.

As a public company, and particularly after we are no longer an EGC, we will incur significant legal, accounting and other expenses that we did not incur as a private company. In addition, the Sarbanes-Oxley Act of 2002 and rules subsequently implemented by the SEC and The Nasdaq Stock Market LLC have imposed various requirements on public companies, including establishment and maintenance of effective disclosure and financial controls and corporate governance practices. Our management and other personnel devote a substantial amount of time to these and other compliance initiatives. Moreover, these rules and regulations will continue to increase our legal and financial compliance costs and will make some activities more time-consuming and costly.

If we fail to maintain an effective system of internal control over financial reporting in the future, we may not be able to accurately report our financial condition, results of operations or cash flows, which may adversely affect investor confidence in us and, as a result, the value of our common stock.

The Sarbanes-Oxley Act requires, among other things, that we maintain effective internal controls for financial reporting and disclosure controls and procedures. We are required, under Section 404, to furnish a report by management on, among other things, the effectiveness of our internal control over financial reporting. This assessment will need to include disclosure of any material weaknesses identified by our management in our internal control over financial reporting. A material weakness is a deficiency, or combination of deficiencies, in internal control over financial reporting that results in more than a reasonable possibility that a material misstatement of annual or interim financial statements will not be prevented or detected on a timely basis. Section 404 also generally requires an attestation from our independent registered public accounting firm on the effectiveness of our internal control over financial reporting. However, for as long as we remain an emerging growth company as defined in the JOBS Act, we intend to take advantage of the exemption permitting us not to comply with the independent registered public accounting firm attestation requirement.

Our compliance with Section 404 will require that we incur substantial expense and expend significant management efforts. We currently do not have an internal audit group, and we will need to hire additional accounting and financial staff with appropriate public company experience and technical accounting knowledge and compile the system and process documentation necessary to perform the evaluation needed to comply with Section 404. We may not be able to complete our evaluation, testing and any required remediation in a timely fashion. During the evaluation and testing process, if we identify one or more material weaknesses in our internal control over financial reporting, we will be unable to assert that our internal control over financial reporting is effective. We cannot assure you that there will not be material weaknesses or significant deficiencies in our internal control over financial reporting in the future. Any failure to maintain internal control over financial reporting could severely inhibit our ability to accurately report our financial condition, results of operations or cash flows. If we are unable to conclude that our internal control over financial reporting is effective, or if our independent registered public accounting firm determines we have a material weakness or significant deficiency in our internal control over financial reporting once that firm begins its Section 404 reviews, we could lose investor confidence in the accuracy and completeness of our financial reports, the market price of our common stock could decline, and we could be subject to sanctions or investigations by The Nasdaq Stock Market LLC, the SEC or other regulatory authorities. Failure to remedy any material weakness in our internal control over financial reporting, or to implement or maintain other effective control systems required of public companies, could also restrict our future access to the capital markets.

Risks Related to the Ownership of Our Common Stock and Other General Matters

The market price of our common stock may be volatile and fluctuate substantially, which could result in substantial losses for our common stock.

The market price of our common stock is likely to be volatile. The stock market in general and the market for biopharmaceutical or pharmaceutical companies in particular, has experienced extreme volatility that has often been unrelated to the operating performance of particular companies, including very recently in connection with the ongoing COVID-19 pandemic, which has resulted in decreased stock prices for many companies notwithstanding the lack of a fundamental change in their underlying business models or prospects. Broad market and industry factors, including potentially worsening economic conditions and other adverse effects or developments relating to the ongoing COVID-19 pandemic, may negatively affect the market price of our common stock, regardless of our actual operating performance. As a result of this volatility, you may lose all or part of your investment in our common stock since you might be unable to sell your shares at or above the price you paid for the shares. The market price for our common stock may be influenced by many factors, including:

- results of clinical trials of our current and any future drug candidates or those of our competitors;
- the success of competitive drugs or therapies;
- regulatory or legal developments in the United States and other countries;
- developments or disputes concerning patent applications, issued patents or other proprietary rights;
- the recruitment or departure of key personnel;
- the level of expenses related to our current and any future drug candidates or clinical development programs;
- the results of our efforts to discover, develop, acquire or in-license additional drug candidates;
- actual or anticipated changes in estimates as to financial results, development timelines or recommendations by securities analysts;
- our inability to obtain or delays in obtaining adequate drug supply for any approved drug or inability to do so at acceptable prices;
- disputes or other developments relating to proprietary rights, including patents, litigation matters and our ability to obtain patent protection for our technologies;

- significant lawsuits, including patent or stockholder litigation;
- variations in our financial results or those of companies that are perceived to be similar to us;
- changes in the structure of healthcare payment systems;
- market conditions in the pharmaceutical and biotechnology sectors;
- general economic, industry and market conditions; and
- the other factors described in this “Risk Factors” section.

In addition, in the past, stockholders have initiated class action lawsuits against companies following periods of volatility in the market prices of these companies’ stock. Such litigation, if instituted against us, could cause us to incur substantial costs and divert management’s attention and resources.

There is no public market for our Series A convertible preferred stock.

There is no established public trading market for our Series A convertible preferred stock, and we do not expect a market to develop. In addition, we do not intend to apply for listing of the Series A convertible preferred stock on any national securities exchange or other nationally recognized trading system. Without an active market, the liquidity of the Series A convertible preferred stock will be limited.

We may sell additional equity or debt securities or enter into other arrangements to fund our operations, which may result in dilution to our stockholders and impose restrictions or limitations on our business.

Until we can generate a sufficient amount of revenue from our products, if ever, we expect to finance future cash needs through public or private equity or debt offerings. In November 2020, we filed a shelf registration statement on Form S-3 (Registration No. 333-250054) that allows us to sell up to an aggregate of \$250.0 million of our common stock, preferred stock, debt securities and/or warrants (the “S-3 Registration Statement”), which includes a prospectus covering the issuance and sale of up to \$75.0 million of common stock pursuant to an at-the-market (“ATM”) offering program. As of March 31, 2021, we had \$250.0 million available under our S-3 Registration Statement, including \$75.0 million available pursuant to our ATM program. Financing activities may have an adverse impact on our stockholders’ rights as well as on our operations, and such additional funding may not be available on reasonable terms, if at all. If we raise additional funds through the issuance of additional debt or equity securities, it may result in dilution to our existing stockholders and/or increased fixed payment obligations. Furthermore, these securities may have rights senior to those of our common stock and could contain covenants that would restrict our operations and potentially impair our competitiveness, such as redeeming our shares, making investments, issuing additional equity, limitations on our ability to incur additional debt, limitations on our ability to acquire, sell or license intellectual property rights and other operating restrictions that could adversely impact our ability to conduct our business. Additionally, if we seek funds through arrangements with collaborative partners, these arrangements may require us to relinquish rights to some of our technologies or product candidates or otherwise agree to terms unfavorable to us. Any of these events could significantly harm our business, financial condition and prospects.

You will be diluted by any conversions of outstanding Series A convertible preferred stock and exercises of outstanding options.

As of March 31, 2021, we had outstanding options to purchase an aggregate of 11,008,181 shares of our common stock at a weighted average exercise price of \$5.15 per share and 1,250,000 shares of common stock issuable upon conversion of outstanding Series A convertible preferred stock for no additional consideration. Such Series A convertible preferred stock is convertible any time at the option of the holder thereof subject to the beneficial ownership limitations described in Note 6 to the financial statements contained in this Quarterly Report on Form 10-Q. The exercise of such options and conversion of the Series A convertible preferred stock for shares of our common stock will result in further dilution of your investment and could negatively affect the market price of our common stock. In addition, you may experience further dilution if we issue common stock, or securities convertible into common stock, in the future. As a result of this dilution, you may receive significantly less than the full purchase price you paid for the shares in the event of liquidation.

Concentration of ownership of our common stock among our executive officers, directors and principal stockholders may prevent new investors from influencing significant corporate decisions.

Based upon our shares of our common stock outstanding as of May 6, 2021, our executive officers, directors and stockholders who owned more than 5% of our outstanding common stock, in the aggregate, beneficially own shares representing approximately 56% of our outstanding common stock.

Takeda, a greater than 5% holder, has agreed to, among other things, (i) a standstill provision, (ii) restrictions on its ability to sell or otherwise transfer its shares of our stock, (iii) vote its shares on certain matters in accordance with the holders of a majority of shares of our common stock and (iv) restrictions on the percentage of our outstanding common stock it may own, in accordance with the terms of the Takeda License and Termination Agreement.

If our executive officers, directors and stockholders who owned more than 5% of our outstanding common stock acted together, they may be able to significantly influence all matters requiring stockholder approval, including the election and removal of directors and approval of any merger, consolidation or sale of all or substantially all of our assets. The concentration of voting power, Takeda standstill provisions, voting obligations and transfer restrictions could delay or prevent an acquisition of our company on terms that other stockholders may desire or result in the management of our company in ways with which other stockholders disagree with.

If securities analysts do not publish research or reports about our business or if they publish negative evaluations of our stock, the price of our stock could decline.

The trading market for our common stock relies, in part, on the research and reports that industry or financial analysts publish about us or our business. We do currently have research coverage offered by several industry or financial analysts. If one or more of the analysts covering our business downgrade their evaluations of our stock, the price of our stock could decline. If one or more of these analysts cease to cover our stock, we could lose visibility in the market for our stock, which in turn could cause our stock price to decline.

Because we do not anticipate paying any cash dividends on our capital stock in the foreseeable future, capital appreciation, if any, will be your sole source of gain.

We have never declared or paid cash dividends on our capital stock. We currently intend to retain all of our future earnings, if any, to finance the growth and development of our business. In addition, the terms of any future debt agreements may preclude us from paying dividends. As a result, capital appreciation, if any, of our common stock will be your sole source of gain for the foreseeable future.

Provisions in our corporate charter documents and under Delaware law could make an acquisition of us, which may be beneficial to our stockholders, more difficult and may prevent attempts by our stockholders to replace or remove our current management.

Provisions in our corporate charter and our bylaws may discourage, delay or prevent a merger, acquisition or other change in control of us that stockholders may consider favorable, including transactions in which you might otherwise receive a premium for your shares. These provisions also could limit the price that investors might be willing to pay in the future for shares of our common stock, thereby depressing the market price of our common stock. In addition, because our board of directors is responsible for appointing the members of our management team, these provisions may frustrate or prevent any attempts by our stockholders to replace or remove our current management by making it more difficult for stockholders to replace members of our board of directors. Among other things, these provisions:

- establish a classified board of directors such that not all members of the board are elected at one time;
- allow the authorized number of our directors to be changed only by resolution of our board of directors;
- limit the manner in which stockholders can remove directors from the board;
- establish advance notice requirements for stockholder proposals that can be acted on at stockholder meetings and nominations to our board of directors;
- require that stockholder actions must be effected at a duly called stockholder meeting and prohibit actions by our stockholders by written consent;
- limit who may call stockholder meetings;
- authorize our board of directors to issue preferred stock without stockholder approval, which could be used to institute a stockholder rights plan, or so-called “poison pill,” that would work to dilute the stock ownership of a potential hostile acquirer, effectively preventing acquisitions that have not been approved by our board of directors; and
- require the approval of the holders of at least 66 2/3% of the votes that all our stockholders would be entitled to cast to amend or repeal certain provisions of our charter or bylaws.

Moreover, because we are incorporated in Delaware, we are governed by the provisions of Section 203 of the Delaware General Corporation Law, which prohibits a person who owns in excess of 15% of our outstanding voting stock from merging or combining with us for a period of three years after the date of the transaction in which the person acquired in excess of 15% of our outstanding voting stock, unless the merger or combination is approved in a prescribed manner.

Additionally, the Takeda standstill provisions and transfer restrictions in the Takeda License and Termination Agreement may delay or prevent a merger, acquisition or other change in control of us that stockholders may consider favorable, including transactions in which you might otherwise receive a premium for your shares.

We may be subject to securities litigation, which is expensive and could divert management attention.

The market price of our common stock may be volatile. For example, on August 25, 2020, we announced the topline results of our ELEKTRA clinical trial, and our stock experienced a material decline. In the past, companies that have experienced volatility in the market price of their stock have been subject to securities class action litigation. We may be the target of this type of litigation in the future. Securities litigation against us could result in substantial costs and divert our management’s attention from other business concerns, which could seriously harm our business.

Some provisions of our charter documents and Delaware law may have anti-takeover effects that could discourage an acquisition of us by others, even if an acquisition would benefit our stockholders and may prevent attempts by our stockholders to replace or remove our current management.

Provisions in our amended and restated certificate of incorporation and amended and restated bylaws, as well as provisions of Delaware law, could make it more difficult for a third party to acquire us or increase the cost of acquiring us, even if doing so would benefit our stockholders, or remove our current management. These provisions include:

- authorizing the issuance of “blank check” preferred stock, the terms of which we may establish and shares of which we may issue without stockholder approval;
- prohibiting cumulative voting in the election of directors, which would otherwise allow for less than a majority of stockholders to elect director candidates;
- prohibiting stockholder action by written consent, thereby requiring all stockholder actions to be taken at a meeting of our stockholders;
- eliminating the ability of stockholders to call a special meeting of stockholders; and
- establishing advance notice requirements for nominations for election to the board of directors or for proposing matters that can be acted upon at stockholder meetings.

These provisions may frustrate or prevent any attempts by our stockholders to replace or remove our current management by making it more difficult for stockholders to replace members of our board of directors, who are responsible for appointing the members of our management. Because we are incorporated in Delaware, we are governed by the provisions of Section 203 of the Delaware General Corporation Law (the “DGCL”), which may discourage, delay or prevent someone from acquiring us or merging with us whether or not it is desired by or beneficial to our stockholders. Under the DGCL, a corporation may not, in general, engage in a business combination with any holder of 15% or more of its capital stock unless the holder has held the stock for three years or, among other things, the board of directors has approved the transaction. Any provision of our amended and restated certificate of incorporation or amended and restated bylaws or Delaware law that has the effect of delaying or deterring a change of control could limit the opportunity for our stockholders to receive a premium for their shares of our common stock and could also affect the price that some investors are willing to pay for our common stock.

If we engage in future acquisitions or strategic partnerships, this may increase our capital requirements, dilute our stockholders, cause us to incur debt or assume contingent liabilities and subject us to other risks.

Our business plan is to continue to evaluate various acquisitions and strategic partnerships, including licensing or acquiring complementary drugs, intellectual property rights, technologies, or businesses. Any potential acquisition or strategic partnership may entail numerous risks, including:

- increased operating expenses and cash requirements;
- the assumption of additional indebtedness or contingent liabilities;
- assimilation of operations, intellectual property and drugs of an acquired company, including difficulties associated with integrating new personnel;
- the diversion of our management’s attention from our existing drug programs and initiatives in pursuing such a strategic partnership, merger or acquisition;
- retention of key employees, the loss of key personnel, and uncertainties in our ability to maintain key business relationships;
- risks and uncertainties associated with the other party to such a transaction, including the prospects of that party and their existing drugs or drug candidates and regulatory approvals; and
- our inability to generate revenue from acquired technology and/or drugs sufficient to meet our objectives in undertaking the acquisition or even to offset the associated acquisition and maintenance costs.

In addition, if we engage in future acquisitions or strategic partnerships, we may issue dilutive securities, assume or incur debt obligations, incur large one-time expenses and acquire intangible assets that could result in significant future amortization expense. Moreover, we may not be able to locate suitable acquisition opportunities and this inability could impair our ability to grow or obtain access to technology or drugs that may be important to the development of our business.

Sales of a substantial number of shares of our common stock in the public market could cause the market price of our common stock to drop significantly.

Sales of a substantial number of shares of our common stock in the public market could occur at any time. These sales, or the perception in the market that the holders of a large number of shares intend to sell shares, could reduce the market price of our common stock. Some of the holders of our securities have rights, subject to certain conditions, to require us to file registration statements covering their shares or to include their shares in registration statements that we may file for ourselves or other stockholders. Registration of these shares would result in the shares becoming freely tradable without restriction under the Securities Act except for shares held by our affiliates. Any sales of securities by these stockholders could have a material adverse effect on the trading price of our common stock.

Item 2. Unregistered Sales of Equity Securities and Use of Proceeds.

Recent Sales of Unregistered Equity Securities

None.

Use of Proceeds

Not applicable.

Purchases of Equity Securities by the Issuer and Affiliated Purchasers

None.

Item 5. Other Information.

None.

Item 6. Exhibits.

Exhibit Number	Description
3.1	<u>Amended and Restated Certificate of Incorporation (incorporated herein by reference to Exhibit 3.1 to the Company's Current Report on Form 8-K (File No. 001-38085), filed with the Commission on May 10, 2017).</u>
3.2	<u>Corrected Amended and Restated Certificate of Designation of Series A Convertible Preferred Stock (incorporated herein by reference to Exhibit 3.1 to the Company's Current Report on Form 8-K (File No. 001-38085), filed with the Commission on September 24, 2019).</u>
3.3	<u>Amended and Restated Bylaws (incorporated herein by reference to Exhibit 3.2 to the Company's Current Report on Form 8-K (File No. 001-38085), filed with the Commission on May 10, 2017).</u>
4.1	<u>Form of Common Stock Certificate of the Company (incorporated herein by reference to Exhibit 4.1 to the Company's Registration Statement on Form S-1/A (File No. 333-217245), filed with the Commission on April 25, 2017).</u>
4.2	<u>Form of Series A Preferred Stock Certificate (incorporated herein by reference to Exhibit 4.1 to the Company's Current Report on Form 8-K (File No. 001-38085), filed with the Commission on February 21, 2019).</u>
4.3	<u>Second Amended and Restated Investors' Rights Agreement, by and among the Company and certain of its stockholders, dated January 6, 2017 (incorporated herein by reference to Exhibit 4.2 to the Company's Registration Statement on Form S-1 (File No. 333-217245), filed with the Commission on April 10, 2017).</u>
101.1 [^]	<u>Royalty, License and Termination Agreement, by and between the Company and Takeda Pharmaceutical Company Limited, dated March 2, 2021.</u>
31.1	<u>Certification of Principal Executive Officer Pursuant to Rules 13a-14(a) and 15d-14(a) under the Securities Exchange Act of 1934, as Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.</u>
31.2	<u>Certification of Principal Financial Officer Pursuant to Rules 13a-14(a) and 15d-14(a) under the Securities Exchange Act of 1934, as Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.</u>
32.1*	<u>Certification of Principal Executive Officer and Principal Financial Officer Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.</u>
101.INS	XBRL Instance Document
101.SCH	XBRL Taxonomy Extension Schema Document
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document
101.LAB	XBRL Taxonomy Extension Label Linkbase Document
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document

[^] Pursuant to Item 601(b)(10)(iv) of Regulation S-K promulgated by the Securities and Exchange Commission, certain portions of this exhibit have been redacted. The Company hereby agrees to furnish supplementally to the Securities and Exchange Commission, upon its request, an unredacted copy of this exhibit.

* Furnished herewith and not deemed to be "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), and shall not be deemed to be incorporated by reference into any filing under the Securities Act of 1933, as amended, or the Exchange Act (whether made before or after the date of the Form 10-Q), irrespective of any general incorporation language contained in such filing.

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

OVID THERAPEUTICS INC.

Date: May 13, 2021

By: /s/ Jeremy M. Levin
Jeremy M. Levin
Chief Executive Officer
(Principal Executive Officer)

Date: May 13, 2021

By: /s/ Timothy Daly
Timothy Daly
Executive Vice President, Finance, Corporate Controller & Treasurer
(Principal Financial and Accounting Officer)

**ROYALTY, LICENSE AND TERMINATION AGREEMENT RELATING TO LICENSE AND COLLABORATION
AGREEMENT DATED JANUARY 6, 2017**

BY AND BETWEEN

TAKEDA PHARMACEUTICAL COMPANY LIMITED

AND

OVID THERAPEUTICS INC.

MARCH 2, 2021

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ROYALTY, LICENSE AND TERMINATION AGREEMENT RELATING TO LICENSE AND COLLABORATION AGREEMENT

This Royalty, License and Termination Agreement (this “Agreement”) is made effective as of March 2, 2021 (the “Effective Date”) by and between Takeda Pharmaceutical Company Limited, a company incorporated under the laws of Japan having its principal place of business at 1-1, Doshomachi 4-chome, Chuo-ku, Osaka 540-8645, Japan (“Takeda”), and Ovid Therapeutics Inc., a company incorporated under the laws of the State of Delaware having its principal place of business at 1460 Broadway, New York, NY 10036, U.S.A. (“Ovid”). Ovid and Takeda are sometimes referred to herein individually as a “Party” and collectively as the “Parties.”

RECITALS

WHEREAS, the Parties entered into that certain License and Collaboration Agreement effective as of January 6, 2017 (as amended from time to time, the “Collaboration Agreement”) relating to the development and commercialization of the Compound (as defined below) for the treatment (including prevention and diagnosis) of Orphan CNS Diseases (as defined below); and

WHEREAS, the Parties desire to terminate the Collaboration Agreement with effect from the Closing (as defined below) on the terms set out in this Agreement.

NOW, THEREFORE, in consideration of the foregoing and the mutual agreements set forth below, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties agree as follows:

ARTICLE 1 – DEFINITIONS

1.1 “Accounting Standards” means IFRS, consistently applied by Takeda.

1.2 “Affiliate” means, with respect to a particular Party, a person, corporation, partnership, or other entity that controls, is controlled by or is under common control with such Party. For the purposes of this definition, the word “control” (including, with correlative meaning, the terms “controlled by” or “under the common control with”) means the actual power, either directly or indirectly through one or more intermediaries, to direct or cause the direction of the management and policies of such entity, whether by the ownership of fifty percent (50%) or more of the voting stock of such entity, or by contract or otherwise. For clarity, once a Person ceases to be an Affiliate of a Party, then, without any further action, such Person shall cease to have any rights, including license and sublicense rights, under this Agreement by reason of being an Affiliate of such Party.

1.3 “Agreement” has the meaning set forth in the preamble.

1.4 “Ancillary Agreement” means the Stock Purchase Agreement, the Quality Agreement and the PVA.

1.5 “API” means unformulated Compound in bulk form.

1.6 “Applicable Laws” means all applicable statutes, ordinances, regulations, rules, or orders of any kind whatsoever of any Governmental Authority, including the Federal Food, Drug and Cosmetic Act, (21 U.S.C. § 301 et seq.) (the “FFDCA”), U.S. Patent Act (35 U.S.C. § 1 et seq.), Federal Civil False Claims Act (31 U.S.C. § 3729 et seq.), the Anti-Kickback Statute (42 U.S.C. § 1320a-7b et seq.) (and all applicable statutory exceptions and safe harbors), the Physician Payment Sunshine Act (42 U.S.C. § 1320a-7h), and the Foreign Corrupt Practices Act of 1977 (15 U.S.C. §§ 78dd-1, et seq.), all as amended from time to time, together with any rules, regulations, and compliance guidance promulgated thereunder.

1.7 “Business Day” means a day other than Saturday, Sunday or any other day on which commercial banks located in the State of New York, U.S., or Japan, are authorized or obligated by Applicable Laws to close.

1.8 “Calendar Quarter” means the respective periods of three (3) consecutive calendar months ending on March 31, June 30, September 30 and December 31; *provided that*: (a) the first Calendar Quarter of the Term shall extend from the Closing Date to the end of the first complete Calendar Quarter thereafter; and (b) the last Calendar Quarter of the Term shall end on the date of expiration or termination of this Agreement.

1.9 “Calendar Year” means each twelve (12) month period ending on December 31; *provided that*: (a) the first Calendar Year of the Term shall begin on the Closing Date and end on December 31, 2021; and (b) the last Calendar Year of the Term shall end on the date of expiration or termination of this Agreement.

1.10 “Change of Control” means: (a) any Third Party acquires directly or indirectly the beneficial ownership of any voting security of Ovid, or if the percentage ownership of such person or entity in the voting securities of Ovid is increased through stock redemption, cancellation or other recapitalization, and immediately after such acquisition or increase such Third Party is, directly or indirectly, the beneficial owner of voting securities representing more than fifty percent (50%) of the total voting power of all of the then outstanding voting securities of Ovid; (b) a merger, consolidation, recapitalization, or reorganization of Ovid is consummated, other than any such transaction, which would result in stockholders or equity holders of Ovid immediately prior to such transaction, owning at least fifty percent (50%) of the outstanding securities of the surviving entity (or its parent entity) immediately following such transaction; or (c) the sale or transfer to a Third Party of all or substantially all of Ovid’s assets taken as a whole is effected. Notwithstanding the foregoing, the sale of shares of preferred or common stock in a financing transaction with the principal purpose of fund raising for Ovid shall not be deemed a “Change of Control.”

1.11 “Claim” has the meaning set forth in Section 14.1.

1.12 “Clinical Trial” means any human clinical study or trial of a pharmaceutical product in the Field in the Territory.

1.13 “Closing” has the meaning set forth in Section 3.1.

1.14 “Closing Date” has the meaning set forth in Section 3.1.

1.15 “Collaboration Agreement” has the meaning set forth in the first recital.

1.16 “Collaboration Period” means the period from January 6, 2017 to the Closing Date.

1.17 “Commercialize” or “Commercialization” means all activities undertaken in support of the promotion, marketing, sale and distribution (including importing, exporting, transporting, customs clearance, warehousing, invoicing, handling and delivering the Products to customers, as well as pharmacovigilance) of the Products in the Field in the Territory, including sales force efforts, detailing, advertising, marketing, the creation and approval of Promotional Materials, sales and distribution, pricing, customer and government contracting, and medical affairs, including medical education, medical information, clinical science liaison activities, and health economics and outcomes research, but excluding publications and investigator-initiated research studies. “Commercialize” means to engage in Commercialization activities, and “Commercial” means relating to Commercialization.

1.18 [***].

1.19 “Compound” means the chemical compound known as soticlestat or TAK-935/OV935, with [***], which is understood as of the Effective Date to be a modulator of the Program Target (the “Lead Compound”), and [***]. For clarity, “Compound” includes any chemical compound with the chemical structure attached hereto as Exhibit A, [***].

1.20 “Confidential Information” means all non-public or proprietary Information disclosed by a Party to the other Party under this Agreement, which may include ideas, inventions, discoveries, concepts, compounds, compositions, formulations, formulas, practices, procedures, processes, methods, knowledge, know-how, trade secrets, technology, inventories, machines, techniques, development, designs, drawings, computer programs, skill, experience, documents, apparatus, results, clinical and regulatory strategies, regulatory documentation, information and submissions pertaining to, or made in association with, filings with any Regulatory Authority, data, including pharmacological, toxicological and clinical data, analytical and quality control data, manufacturing data and descriptions, patent and legal data, market data, financial data or descriptions, devices, assays, chemical formulations, specifications, material, product samples and other samples, physical, chemical and biological materials and compounds, and the like, without regard as to whether any of the foregoing is marked “confidential” or “proprietary,” or disclosed in oral, written, graphic, or electronic form. Without limiting the foregoing, Confidential Information shall include: (a) the terms and conditions of this Agreement; and (b) Confidential Information disclosed by either Party pursuant to the Confidentiality Agreement.

1.21 “Confidentiality Agreement” means the confidentiality agreement between Ovid and Takeda’s Affiliate, Takeda Development Center Americas, Inc., dated June 23, 2015 (as amended).

1.22 “Control” means, with respect to any Information, Patent, trademark or other intellectual property right, ownership or possession by a Party, including its Affiliates, of the ability (without taking into account any rights granted by one Party to the other Party under the terms of this Agreement) to grant access, a license or a sublicense (on the terms set forth herein) to such Information, Patent, trademark or other intellectual property right without violating the

terms of any agreement or other arrangement with, or necessitating the consent of, any Third Party, at such time that the Party would be first required under this Agreement to grant the other Party such access, license or sublicense.

1.23 “Cover” means, with respect to a Patent and a Product, that the manufacture, use, offer for sale, sale or import of a Product, absent a license to such Patent or Product, would infringe a Valid Claim in such Patent; [***]. “Covered” and “Covering” have the correlative meanings.

1.24 “Development” means all non-clinical and clinical drug development activities, including toxicology, pharmacology, and other non-clinical efforts, statistical analysis, the performance of Clinical Trials, including the Manufacturing of the Products for use in the Clinical Trials, Manufacturing Development, or other activities reasonably necessary in order to obtain or maintain, Regulatory Approval of Products in the Field in the Territory. “Development” shall exclude all Commercialization activities. When used as a verb, “Develop” means to engage in Development activities.

1.25 “Development Expenses” has the meaning given to such term in the Collaboration Agreement.

1.26 “Disclosing Party” has the meaning set forth in Section 11.1.

1.27 “Disclosure Period” has the meaning set forth in Section 5.2.

1.28 “Dispute” has the meaning set forth in Section 13.1.

1.29 “Divestment Notice” has the meaning set forth in Section 8.2(c)(i).

1.30 “Divestment Period” has the meaning set forth in Section 8.2(c)(ii).

1.31 “Divestment Transaction” has the meaning set forth in Section 8.2(a).

1.32 “Drug Product” means a Product that has been manufactured into a final pharmaceutical product, including drug substance (e.g., tablets or granules) for administration to humans in accordance with Applicable Laws, but has not been Packaged for use in Clinical Trials or Commercialization.

1.33 “Effective Date” has the meaning set forth in the preamble.

1.34 “EMA” means the European Medicines Agency, or any successor agency thereto.

1.35 “Estimated Ovid Expenses” has the meaning set forth in Section 2.2(a).

1.36 “Estimated Takeda Expenses” has the meaning set forth in Section 2.2(a).

1.37 “European Union” or “EU” means the European Union member states as of the Effective Date, and the United Kingdom, Iceland, Liechtenstein, Norway and Switzerland.

- 1.38 “Executive Officers” means, with respect to Takeda, the head or chief officer of the department at Takeda handling the applicable matter, and, with respect to Ovid, the Chief Executive Officer.
- 1.39 “Exploit” or “Exploitation” means to research, make, have made, import, export, distribute, use, have used, sell, have sold, or offer for sale, including to Develop, Commercialize, register, modify, enhance, improve or otherwise dispose of.
- 1.40 “FDA” means the U.S. Food and Drug Administration, or any successor agency thereto.
- 1.41 “Field” means the treatment (including prevention and diagnosis) of all Orphan CNS Diseases, including, without limitation, (a) Dravet Syndrome (DS); (b) Tuberous Sclerosis (TSC); and (c) Lennox-Gastaut Syndrome (LGS), among others.
- 1.42 “Finance Officers” means, with respect to Takeda, a finance officer designated by Takeda and, with respect to Ovid, a finance officer designated by Ovid.
- 1.43 “Finished Manufacturing” means all activities related to the formulation and filling of API (but excluding any Packaging activities) into Drug Product form suitable for use in Clinical Trials or Commercialization (*i.e.*, bottles or blisters), in accordance with Applicable Laws.
- 1.44 “Finished Product” means Drug Product that has been Packaged into form suitable for use in clinical trials or for commercial purposes (*i.e.*, bottles or blisters), including samples, in accordance with Applicable Laws.
- 1.45 “First Commercial Sale” means, with respect to a Product and a country, the first commercial sale for monetary value of such Product in such country by Takeda, its Affiliates or its or their respective (sub)licensees to a Third Party after all Regulatory Approvals (other than pricing approval) for such Product have been obtained in such country.
- 1.46 “Governmental Authority” means any multi-national, federal, state, local, municipal or other government authority of any nature (including any governmental division, subdivision, department, agency, bureau, branch, office, commission, council, court or other tribunal).
- 1.47 “HSR Act” means the Hart Scott Rodino Antitrust Improvements Act of 1976, as amended, and any rules and regulations promulgated thereunder.
- 1.48 “IFRS” means the International Financial Reporting Standards as promulgated by the International Accounting Standards Board and as they may be updated for time to time.
- 1.49 “IND” means an Investigational New Drug application as defined in the FFDCA, as amended, and applicable regulations promulgated hereunder by the FDA, or a clinical trial authorization application for a product filed with a Regulatory Authority in any other regulatory jurisdiction outside the U.S., the filing of which is necessary to commence or conduct clinical testing of a pharmaceutical product in humans in such jurisdiction.

1.50 “Indemnifying Party” has the meaning set forth in Section 14.3(a).

1.51 “Indemnitee” has the meaning set forth in Section 14.3(a).

1.52 “Information” means information; Inventions; discoveries; compounds; compositions; formulations; formulas; practices; procedures; processes; methods; knowledge; trade secrets; technology; techniques; designs; drawings; correspondence; computer programs; documents; apparatus; results; strategies; regulatory documentation; information and submissions pertaining to, or made in association with, filings with any Regulatory Authority or patent office; data, including pharmacological, toxicological, non-clinical and clinical data, analytical and quality control data, manufacturing data and descriptions, market data, financial data and descriptions; devices; assays; chemical formulations; specifications; material, product samples and other samples; physical, chemical and biological materials and compounds; and the like, in written, electronic, oral or other tangible or intangible form, now known or hereafter developed, whether or not patentable.

1.53 “Initial Payment” has the meaning set forth in Section 7.1(a).

1.54 “Inventions” means any and all inventions, discoveries and developments, whether or not patentable, made, conceived or reduced to practice in the course of performance of this Agreement or the Collaboration Agreement that are necessary or useful in the Exploitation of the Compound or a Product, whether made, conceived or reduced to practice solely by, or on behalf of, Takeda, Ovid, the Parties jointly, or any Affiliate of the same.

1.55 “Joint Inventions” means all right, title and interest to Inventions conceived and reduced to practice, or otherwise created by personnel of Ovid or its Affiliates together with personnel of Takeda or its Affiliates.

1.56 “Joint IP” has the meaning set forth in Section 2.3(c)(iv).

1.57 “Joint Patent” means any Patent application claiming a Joint Invention, which is filed by a Party or its Affiliate after January 6, 2017, together with any resulting Patent.

1.58 “Labeling” means the healthcare professional information or patient information used in the Territory that is part of the Product NDA, including the package insert, medication guides, company core safety information (CCSI) and company core data sheet (CCDS).

1.59 “Lead Compound” has the meaning set forth in the definition of “Compound”.

1.60 “Losses” has the meaning set forth in Section 14.1.

1.61 “Manufacture” or “Manufacturing” means all activities related to the manufacturing of Drug Product, including the manufacture of any ingredient used therein (including API), for Development or Commercialization in the Territory, in-process and Drug Product testing, validation, release of Drug Product or any component or ingredient thereof, quality assurance activities related to manufacturing and release of Drug Product, ongoing stability tests and regulatory activities related to any of the foregoing. For the avoidance of doubt,

Manufacturing shall include Finished Manufacturing of Drug Product, but shall not include the Packaging of Drug Product into Finished Product for use in Clinical Trials or Commercialization.

1.62 “Manufacturing Development” means any of the following with respect to the Compound or a Product: manufacturing process development, process improvements and any analytical development or validation associated with such development or improvements.

1.63 “Marketing Approval” means with respect to a country, all Regulatory Approvals required to market and sell the Product in such country as granted by the relevant Regulatory Authority, including and any such pricing, labeling or reimbursement approvals, as applicable.

1.64 “Milestone Payments” has the meaning set forth in Section 7.1(b).

1.65 “NDA” means a New Drug Application or supplemental New Drug Application as contemplated by Section 505(b) of the FFDCAs, as amended, and the regulations promulgated thereunder, submitted to the FDA pursuant to Part 314 of Title 21 of the U.S. Code of Federal Regulations, including any amendments thereto or an application for Regulatory Approval of a product filed with a Regulatory Authority in any jurisdiction outside the U.S.

1.66 “Net Sales” means, with respect to any Product, the gross amounts invoiced by Takeda, its Affiliates and its respective (sub)licensees for sales of such Product to unaffiliated Third Parties, less the following deductions, to the extent reasonable and customary, provided to unaffiliated entities and actually allowed and taken with respect to such sales:

(a) cash, trade or quantity discounts, charge-back payments, and rebates actually granted to trade customers, managed health care organizations, pharmaceutical benefit managers, group purchasing organizations and national, state, or local government;

(b) credits, rebates or allowances actually allowed upon prompt payment or on account of claims, damaged goods, rejections or returns of such Product, including in connection with recalls, and the actual amount of any write-offs for bad debt up to [***] of gross invoiced amounts in any period (*provided* that any amount subsequently recovered will be treated as Net Sales), and retroactive price reductions;

(c) packaging, freight, postage, shipping, transportation, warehousing, handling and insurance charges, in each case actually allowed or paid for delivery of such Product, and any customary payments with respect to the Product actually made to wholesalers or other distributors (including any specialty pharmacies), in each case actually allowed or paid for distribution and delivery of Product, to the extent billed or recognized;

(d) taxes (other than income taxes), duties, tariffs, mandated contribution or other governmental charges levied on the sale of such Product, including VAT, excise taxes and sales taxes, Takeda, its Affiliates or (sub)licensees, as applicable, allocate to sales of such Product in accordance with Takeda’s, its Affiliates’ or (sub)licensees’ standard policies and procedures consistently applied across its products, as applicable; and

(e) any sales, credits or allowances given or made with respect to Products for wastage replacement, indigent patient, Clinical Trial and any unpaid compassionate or named patient, charitable or humanitarian programs.

Notwithstanding the foregoing, amounts invoiced by Takeda, its Affiliates, or its respective sublicensees for the sale of such Product among Takeda, its Affiliates or its respective sublicensees for resale shall not be included in the computation of Net Sales hereunder. In any event, any amounts invoiced by Takeda, its Affiliates, or its sublicensees shall be accounted for only once. For purposes of determining Net Sales, a Product shall be deemed to be sold when recorded as a sale by Takeda, its Affiliates and its sublicensees in accordance with the Accounting Standard. For clarity, a particular deduction may only be accounted for once in the calculation of Net Sales. Net Sales shall exclude any samples of Product transferred or disposed of at no expense for promotional or educational purposes. For the avoidance of doubt, and for all purposes under this Agreement, Net Sales shall be accounted for in accordance with standard accounting practices, as practiced by Takeda, its Affiliates and its sublicensees in the relevant country in the Territory, but in any event in accordance with the Accounting Standard, as consistently applied in such country in the Territory.

The Net Sales of any combination Product:

(x) for which the original Product and the other active ingredient(s) of such combination Product which are not included in the single active original Product, are each sold separately by Takeda, or any of its Affiliates or sublicensees, in such country, then Net Sales for such combination Product in such country shall be calculated by multiplying actual Net Sales of such combination Product in such country by the fraction $A/(A+B)$, where A is the average Net Sales price of the original Product containing the single active ingredient(s) as sold separately by Takeda or any of its Affiliates or sublicensees in such country, and B is the average net sales (calculated in a manner analogous to the manner in which Net Sales are calculated as set forth above) price of the other active ingredient(s) in the combination Product as sold separately by Takeda or any of its Affiliates or sublicensees in such country;

(y) for which (i) the single active ingredient of the original Product of such combination Product is/are sold separately by Takeda or any of its Affiliates or sublicensees in such country and (ii) the other active ingredient(s) in the combination Product is/are not sold separately by Takeda or any of its Affiliates or sublicensees in such country, then Net Sales for such combination Product in such country shall be calculated by multiplying actual Net Sales of such combination Product in such country by the fraction A/D , where A is the average Net Sales price of the original Product containing the single active ingredient of the Product as the only active ingredient(s), as sold separately by Takeda or any of its Affiliates or sublicensees in such country, and D is the average Net Sales price of the combination Product as sold separately by Takeda or any of its Affiliates or sublicensees in such country; and

(z) for which neither clause (x) nor clause (y) above is applicable, the Parties shall determine Net Sales for such combination Product in such country by mutual agreement based on the relative contribution of the single active ingredient in the original Product and the other active ingredient(s) in the combination Product.

- 1.67 “Orphan CNS Diseases” means a CNS or neurological disease or disorder that affects fewer than two hundred thousand (200,000) people in the U.S.
- 1.68 “Ovid” has the meaning set forth in the preamble.
- 1.69 “Ovid House Marks” means the Ovid name and logo in all forms.
- 1.70 “Ovid Indemnitee” has the meaning set forth in Section 14.2.
- 1.71 “Ovid Intellectual Property” means, collectively, Ovid Know-How, Ovid Patents, Ovid House Marks and Ovid’s interest in any Product Trademarks.
- 1.72 “Ovid Know-How” means all Information that: (a) is Controlled by Ovid as of the Effective Date or during the Term (other than that developed or created during the Collaboration Period or owned jointly by Ovid and Takeda); and (b) either (i) is reasonably necessary to Exploit the Compound or a Product in the Field in the Territory or (ii) was used by Ovid prior to the Closing Date in the Exploitation of a Compound or a Product in the Field.
- 1.73 “Ovid Patents” means all Patents (other than Joint Patents and Joint Inventions) that: (a) are Controlled by Ovid as of the Effective Date or during the Term; and (b) are reasonably necessary to Exploit the Compound or a Product in the Field in the Territory. The Ovid Patents as of the Effective Date are set forth on Exhibit C.
- 1.74 “Packaged” means that Drug Product has been subject to complete Packaging.
- 1.75 “Packaging” means all activities related to the packaging and application of the approved Labeling for Finished Product.
- 1.76 “Party” has the meaning set forth in the preamble.
- 1.77 “Patents” means all patents in any jurisdiction, including any utility or design patent, and all applications thereof, including any provisional application; any other patent or patent application claiming priority directly or indirectly to: (a) any such specified patent or patent application; or (b) any patent or patent application from which such specified patent or patent application claim direct or indirect priority; and (c) all divisionals, continuations, continuations-in-part, registrations, reissues, re-examinations, renewals, supplemental protection certificates, or extensions of (a) or (b).
- 1.78 “Payments” has the meaning set forth in Section 7.8.
- 1.79 “Person” means an individual, sole proprietorship, partnership, limited partnership, limited liability partnership, corporation, limited liability company, business trust, joint stock company, trust, incorporated association, joint venture or similar entity or organization, including a government or political subdivision, department or agency of a government.
- 1.80 “Pre-Closing Period” has the meaning set forth in Section 10.7.

1.81 “Product” means any pharmaceutical product comprising (a) the Lead Compound, or any other Compound, as the therapeutically active agent, either alone or in combination with other therapeutically active ingredients, in any formulation or mode of administration; and (b) the applicable delivery device that is intended to deliver such Compound, if any.

1.82 “Product IND” means any IND filed in the Territory related to a Product, in existence as of the Effective Date, including any supplements or amendments thereto. The Product INDs as of the Effective Date are set forth on Exhibit B.

1.83 “Product Liabilities” means all losses, damages, fees, costs and other liabilities incurred by a Party, its Affiliate or its sublicensee and resulting from or relating to the any use of a Compound and/or a Product in a human (including in Clinical Trials and/or pursuant to Commercialization) in the Territory, other than any losses, damages, fees, costs and other liabilities that are a result of a Party’s, its Affiliates’ or its sublicensee’s negligence, willful misconduct or breach of such Party’s representations and warranties made hereunder. For the avoidance of doubt, Product Liabilities include reasonable attorneys’ and experts’ fees and costs relating to any claim or potential claim against a Party, its Affiliate, or its sublicensee. Product Liabilities shall not include liabilities associated with recalls and/or the voluntary or involuntary withdrawal of the Compound and/or a Product.

1.84 “Product NDA” means any NDA filed in the Territory seeking Marketing Approval for a Product in the Field or any indication in the Field, filed with a Regulatory Authority during the Term, including any supplements or amendments thereto.

1.85 “Product Trademarks” mean, collectively, all trademarks used in connection with the Commercialization of a Product as of the Effective Date or during the Term.

1.86 “Program Target” means Cholesterol 24-hydroxylase (CH24H)[***].

1.87 “Promotional Materials” means all written, printed, graphic, electronic, audio or video presentations of information, including journal advertisements, sales visual aids, formulary binders, reprints, direct mail, direct-to-consumer advertising, disease awareness materials, internet postings, broadcast advertisements and sales reminder aides (for example, note pads, pens and other such items, if appropriate) intended for use or used by or on behalf of Takeda, its Affiliates or its sublicensees in connection with the Commercialization of a Product in the Territory.

1.88 “PVA” means the Pharmacovigilance Agreement for Handling of Safety Information, by and between the Parties, dated January 3, 2018.

1.89 “Quality Agreement” means the Quality Assurance Agreement, by and between Takeda Pharmaceuticals International, Inc. and Ovid, dated as of January 28, 2019.

1.90 “Quarterly Report” has the meaning set forth in Section 7.4(a).

1.91 “Receiving Party” has the meaning set forth in Section 11.1.

1.92 “Regulatory Approval” means any approval or authorization, including pricing and reimbursement approvals, of any Regulatory Authority that is necessary for the manufacture, use, storage, import, transport and/or sale of a Product in accordance with Applicable Laws.

1.93 “Regulatory Authority” means any applicable Governmental Authority involved in granting Regulatory Approval, including in the U.S., the FDA and any other applicable Governmental Authority in the U.S. having jurisdiction over a Product; in the EU, the EMA or any competent Governmental Authority in the EU, and in Israel, the Israeli Ministry of Health or any competent Governmental Authority in Israel.

1.94 “Regulatory Exclusivity” means, with respect to each Product in any country in the Territory, exclusivity (other than Patent exclusivity) granted or afforded by Applicable Law or by a Regulatory Authority in such country that confers exclusive marketing rights with respect to such Product in such country, such as new chemical entity exclusivity, orphan drug exclusivity, non-patent related pediatric exclusivity or any other applicable marketing exclusivity, including any such periods listed in the FDA’s Orange Book or any such periods under national implementations in the EU of Article 10 of Directive 2001/83/ED, Article 14(11) of Parliament and Council Regulation (EC) No. 726/2004, Parliament and Council Regulation (ED) No. 141/2000 on orphan medicines, Parliament and Council Regulation (ED) No. 1901/2006 on medicinal products for pediatric use and all international equivalents of any of the foregoing.

1.95 “Regulatory Materials” means regulatory applications, submissions, notifications, registrations, Regulatory Approvals or other submissions, including any written correspondence or meeting minutes, made to, made with, or received from the FDA that are necessary or reasonably desirable in order to Develop, Manufacture, market, sell or otherwise Commercialize a Product in the Territory. Regulatory Materials include the Product INDs and the Product NDAs, and amendments and supplements thereto.

1.96 “Relevant Service Providers” has the meaning set forth in Section 16.7(b)

1.97 “Restricted Period” has the meaning set forth in Section 10.5(a).

1.98 “Royalty Monetization Notice” has the meaning set forth in Section 8.1(c)(i).

1.99 “Royalty Monetization Period” has the meaning set forth in Section 8.1(c)(ii).

1.100 “Royalty Monetization Transaction” has the meaning set forth in Section 8.1(a).

1.101 “Royalty Payments” has the meaning set forth in Section 7.2.

1.102 “Royalty Term” means, with respect to each Product and each country in the Territory, the period beginning on the date of the First Commercial Sale of such Product in such country and ending on the later to occur of: (a) the expiration, invalidation or abandonment of the last-to-expire Valid Claim of a Takeda Patent or Joint Patent in such country and (b) the [***] anniversary of the First Commercial Sale of such Product in such country.

1.103 “SEC” means the Securities and Exchange Commission.

- 1.104 “Shares” means the shares of common stock of Ovid.
- 1.105 “Settlement Date” means March 31, 2021.
- 1.106 “Specified Transferred Materials” means the Information, embodiments of the Ovid Intellectual Property, materials, data and know how to be transferred to Takeda at the Closing and that is set forth on Schedule 2.3(c)(i).
- 1.107 “Stock Purchase Agreement” means the stock purchase agreement, by and between the Parties, dated as of January 6, 2017.
- 1.108 “Takeda” has the meaning set forth in the preamble.
- 1.109 “Takeda House Marks” means the Takeda name and logo in all forms.
- 1.110 “Takeda Indemnitee” has the meaning set forth in Section 14.1.
- 1.111 “Takeda Intellectual Property” means, collectively, Takeda Know-How, Takeda Patents, Takeda House Marks and Takeda’s interest in any Product Trademarks.
- 1.112 “Takeda Know-How” means all Information during the Term that (a) is Controlled by Takeda; and (b) either (i) is reasonably necessary to Exploit the Compound or a Product in the Field in the Territory or (ii) is (or was) used by Takeda during the Term or prior to the Effective Date in the Exploitation of a Compound or a Product.
- 1.113 “Takeda Patents” means all Patents in the Territory Controlled by Takeda as of the Effective Date or during the Term that: (a) claim the composition of matter of, or the method of making or using, a Product; or (b) are otherwise reasonably necessary to Exploit the Compound or a Product in the Field in the Territory. The Takeda Patents as of the Effective Date are set forth on Exhibit D.
- 1.114 “Term” has the meaning set forth in Section 12.1.
- 1.115 “Termination Date” has the meaning set forth in Section 12.2(b).
- 1.116 “Territory” means worldwide.
- 1.117 “Third Party” means a Person other than Takeda and Ovid and their respective Affiliates.
- 1.118 “Transfer” by any Person means directly or indirectly, to sell, transfer, assign, pledge, encumber, hypothecate or similarly dispose of, either voluntarily or involuntarily, or to enter into any contract, option or other arrangement or understanding with respect to the sale, transfer, assignment, pledge, encumbrance, hypothecation or similar disposition of, any securities beneficially owned by such Person or of any interest (including any voting interest) in any securities beneficially owned by such Person. For the avoidance of doubt, a transfer of control of the direct or indirect beneficial ownership of securities is a Transfer of such securities for purposes

of this Agreement; *provided* that nothing herein shall be deemed to prohibit a Change of Control of Takeda.

1.119 “Valid Claim” means: (a) a claim in an issued Patent that has not: (i) expired or been cancelled; (ii) been revoked, (iii) been declared, or admitted through reissue, disclaimer or otherwise, to be invalid or unenforceable; or (iv) been abandoned; or (b) a claim under any application for a Patent, in any case, that has not been cancelled, revoked, withdrawn from consideration, held invalid, finally determined to be unallowable by the applicable Governmental Authority or court for whatever reason (and from which no appeal is or can be taken), or abandoned and which has not been pending for more than [***] from the date of its first filing.

1.120 “Voting Agreement Duration” has the meaning set forth in Section 10.6.

ARTICLE 2 – TERMINATION OF COLLABORATION AGREEMENT

2.1 Termination of Collaboration Agreement

. On the terms and subject to the conditions of this Agreement, and notwithstanding anything in the Collaboration Agreement to the contrary, the Parties hereby agree that, with effect from the Closing, the Collaboration Agreement shall be terminated and:

(a) Except for the provisions of the Collaboration Agreement expressly stated to survive the termination of the Collaboration Agreement pursuant to Section 2.5 below, all the provisions of the Collaboration Agreement (including any which are expressly stated as surviving its termination pursuant to Section 12.9 of the Collaboration Agreement or otherwise, or which might have done so by implication) shall be terminated and of no further force or effect; and

(b) all rights and obligations of each Party (including all licenses granted) under the Collaboration Agreement will cease and be of no further force or effect.

2.2 Collaboration Expenses

(a) Set forth on Schedule 2.2(a) hereto are the Development Expenses that have accrued or are expected to accrue as of the Settlement Date. No later than the [***], each of the Finance Officers of Ovid and Takeda shall agree on an estimate of the Development Expenses that will accrue, or will have accrued, under the Collaboration Agreement as of the Settlement Date and will determine a good faith estimate of (i) the Development Expenses incurred or to be incurred by Takeda as of the Settlement Date (the “Estimated Takeda Expenses”) and (ii) the Development Expenses incurred or to be incurred by Ovid as of the Settlement Date (the “Estimated Ovid Expenses”), *provided* that in no event shall (A) Development Expenses estimated by Takeda on such revised schedules exceed the amounts set forth on Schedule 2.2(a), or (B) Development Expenses estimated by Ovid on such revised schedules exceed the amounts set forth on Schedule 2.2(a) by more than [***] in the aggregate. If the Estimated Ovid Expenses exceed the Estimated Takeda Expenses, Takeda shall pay an amount equal to [***] of such excess to Ovid on the Closing Date. If the Estimated Takeda Expenses exceed the Estimated Ovid Expenses, Ovid shall pay an amount equal to [***] of such excess to Takeda on the Closing Date. For clarity, with respect to [***] the calculation of Estimated Takeda Expenses or Estimated Ovid Expenses, as applicable.

(b) Within [***] after the Settlement Date, each Party shall provide a written report to the other Party's Finance Officer setting forth a final total of the Development Expenses that accrued as of the Settlement Date. Within [***] after receipt of such report, the Finance Officers shall confer and agree in writing on whether a net settlement payment is due from Takeda to Ovid or Ovid to Takeda (taking into account any payments made pursuant to Section 2.2(a)), such that each Party shall be responsible for [***] of the Development Expenses; *provided* that with respect to any amounts incurred by a Party that exceed (i) in the case of the Development Expenses incurred by Takeda, the Estimated Takeda Expenses listed on Schedule 2.2(a), and (ii) in the case of the Development Expenses incurred by Ovid, [***] of the amount of Estimated Ovid Expenses listed on Schedule 2.2(a), the incurring Party shall be solely responsible for such costs, and such excess costs shall not be included in the calculation of any net settlement payment. The Party obligated to pay such net settlement payment shall make such payment to the other Party within [***] following the end of such [***] conferral period.

(c) From the Closing Date until the date that is [***] thereafter (or in the case of agreements that are unable to be assigned under Section 2.3(c)(iii) or that are subject to Section 2.3(c)(v)(A) or (B), for such other period as the Parties may agree in writing), Ovid may, with the prior written consent of Takeda, incur expenses for which Takeda is responsible under this Agreement in connection with Ovid's performance of its obligations under Section 2.3. No later than [***] following the Closing Date, Ovid shall provide to the Finance Officer of Takeda a written report of all such expenses incurred in accordance with this Section 2.2(c). Within [***] after receipt of such report by Takeda, the Finance Officers shall confer and agree in writing on whether any payment is due from Takeda to Ovid. Takeda shall pay any such amount to Ovid within [***] following the end of such [***] conferral period.

2.3 **Effect of Termination**

. Upon termination of the Collaboration Agreement in accordance with Section 2.1 (and without prejudice to Section 2.1), the following consequences shall apply:

(a) notwithstanding anything contained in the Collaboration Agreement to the contrary, all rights and licenses granted in the Collaboration Agreement to Ovid shall terminate and shall revert back to Takeda, and, except as otherwise necessary to wind-down its activities under the Collaboration Agreement in accordance with this Section 2.3 or to transfer such activities to Takeda in accordance with this Section 2.3, Ovid shall cease any and all Exploitation, Development and Commercialization activities with respect to the Products;

(b) Takeda shall have all rights, on a fully paid-up and royalty-free basis (except as provided in Section 7.2), itself or with a Third Party or through a Third Party sublicensee, to Exploit, Develop, Manufacture and Commercialize any Product at Takeda's sole discretion in the Field in the Territory;

(c) the members of the Collaboration Governance Board, the Joint Development Committee and the Joint Commercialization Committee that were formed under the Collaboration Agreement shall coordinate the wind-down of Ovid's efforts under the Collaboration Agreement (including the wind-down of themselves) as soon as reasonably practicable after the Closing Date and shall use their respective best efforts to complete such wind-

down within [***] after the Closing Date (and in any event shall complete such wind-down within [***] after the Closing Date), including:

(i) on the Closing Date, Ovid shall provide to Takeda the Specified Transferred Materials;

(ii) promptly following the Closing Date (and in any event within [***] after the Closing Date), to the extent not provided on the Closing Date, as applicable and to the extent permitted under any applicable Third Party contract (if not permitted, stating the reasons thereof), Ovid shall provide to Takeda (A) any Information, including copies of all Clinical Trial data and results, and the like developed by or for the benefit of Ovid relating to a Product; (B) other documents (including all expired agreements and related data developed thereunder) to the extent relating to the Products that are necessary in the continued Exploitation, Development, Commercialization and Manufacture of a Product (including material documents and agreements relating to the sourcing and Manufacture of a Product for sale, promotion, distribution, or use of a Product) throughout the Territory; and (C) any tangible embodiments of the Ovid Intellectual Property that are reasonably necessary for, used in or held for use in Takeda's Exploitation of the Products;

(iii) on the Closing Date, Ovid shall assign to Takeda the agreements that are set forth in Schedule 2.3(c)(iii); *provided* that if such assignment is not permitted under the relevant agreement: (A) Ovid shall provide to Takeda the benefit of such non-assignable agreement, at Takeda's expense, to the extent permitted under the terms of such non-assignable agreement; or (B) to the extent not permitted under the terms of such non-assignable agreement, the Parties shall discuss in good faith an alternative solution to enable Takeda to receive, at Takeda's expense, the benefit of the terms of such non-assignable agreement;

(iv) on the Closing Date, Ovid shall assign to Takeda all of its right, title and interest in, to and under all (A) Joint Inventions, (B) Joint Patents and (C) intellectual property rights developed or created during the Collaboration Period and owned jointly by Ovid and Takeda as of the Closing Date and used in connection with or related to the Exploitation of a Product in the Field in the Territory ((A), (B) and (C), collectively, the "Joint IP"), in each case including (1) the rights to all causes of action (whether known or unknown or whether currently pending, filed or otherwise) and other enforcement rights under, or on account of, any of the Joint IP, including the right to sue and recover damages and obtain equitable relief for past, present and future infringement, misappropriation, dilution or other violation, (2) all rights to collect past and future income, royalties, damages and other payments now or hereafter due or payable under or on account of any of the Joint IP, (3) the right to prosecute, register, maintain and defend the Joint IP before any public or private agency, office or registrar, (4) the right, if any, to claim priority based on the filing dates of the Joint IP under any law, including under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, the Paris Convention and all other treaties of like purposes, (5) the right to fully and entirely stand in the place of Ovid in all matters related to the Joint IP and (6) all other rights corresponding to the Joint IP throughout the respective countries in which Ovid holds rights in the Joint IP. Takeda hereby grants to Ovid a worldwide, irrevocable, perpetual, fully-paid up, royalty-free, non-exclusive license, with the right to grant sublicenses under any Joint IP (other than

Patents, trademarks and domain names) that was used by Ovid prior to the Closing Date for all uses and all purposes, [***];

(v) promptly after Closing (and in any event within [***] after the Closing Date), Ovid shall assign to Takeda all other agreements not set forth on Schedule 2.3(c)(iii) to which Ovid, or its Affiliate, and a Third Party are parties, and that cover or govern the Exploitation, Development, Commercialization and Manufacturing activities conducted in connection with a Product; *provided* that (A) if such assignment is not permitted under the relevant agreement, or (B) if such agreement also relates to, or is necessary for other products or programs of Ovid, then (1) Ovid shall provide to Takeda the benefit of such non-assignable agreement or such shared agreement (as applicable), at Takeda's expense, to the extent permitted under the terms of such non-assignable agreement or such shared agreement (as applicable); or (2) to the extent not permitted under the terms of such non-assignable agreement, the Parties shall discuss in good faith an alternative solution to enable Takeda to receive, at Takeda's expense, the benefit of the terms of such non-assignable agreement; and

(vi) promptly after Closing (and in any event within [***] after the Closing Date), to the extent not already assigned to Takeda pursuant to Section 2.3(c)(iii) or (v), Ovid shall assign to Takeda any license, sublicense or other right granted by Ovid to a Third Party under the Ovid Intellectual Property in connection with the Exploitation of any Product in the Territory, under the Takeda Intellectual Property or under the Joint IP;

(d) each of the PVA and the QA shall remain in full force and effect until [***] following the Closing Date, and shall automatically terminate at such time and all rights and obligations of each Party under each of the PVA and the QA will cease and be of no further force or effect, except for such rights and obligations that are expressly stated therein to survive the termination of such Ancillary Agreement, including pursuant to Section 4.10 of the PVA; *provided* that if, following such termination date, Ovid receives any inquiry or obtains any information that would have been subject to the PVA or the QA when such agreements were in force, Ovid will promptly communicate such information or inquiry to Takeda, and shall cooperate and provide reasonable assistance to Takeda, at Takeda's expense, in addressing such inquiry or dealing with such information. In addition and for clarity, in the event of any inconsistency between this Agreement and any Ancillary Agreement, the terms contained in this Agreement shall control; and

(e) on the Closing Date, Section 6 of the Stock Purchase Agreement shall automatically terminate and all rights and obligations of each Party under Section 6 of the Stock Purchase Agreement will cease and be of no further force or effect.

2.4 Further Assurances

. Without prejudice to Section 16.7, Ovid shall take such other actions and execute such other instruments, assignments and documents as may be necessary to effect the transfer of rights to such Product(s) hereunder to Takeda. If at any time following the Closing, Takeda becomes aware and notifies Ovid in writing of, or Ovid otherwise becomes aware of any items that were required to have been transferred, conveyed, assigned or delivered to Takeda pursuant to Section 2.3 and were not so transferred, conveyed, assigned or delivered, Ovid shall take, and shall cause its Affiliates to take, such actions as Takeda may reasonably request to effectuate the transfer, conveyance, assignment or delivery of all such items to Takeda.

2.5 Survival

. The following provisions of the Collaboration Agreement shall survive its termination pursuant to this Article 2 for the period of time specified therein (or, if no such period is specified, indefinitely): Articles 1, 13 (excluding 13.2(b)) and 14, and Sections 8.11, 10.5, 11.1 through 11.4 (inclusive), 11.6, 11.8, 12.8, 15.2 through 15.5 (inclusive), and 15.7 through 15.16 (inclusive).

ARTICLE 3 – CLOSING

3.1 Closing Date

. Subject to the terms and conditions of this Agreement, the closing of the transactions contemplated hereby (the “Closing”) shall take place at 10:00 a.m., Eastern time no later than the [***] after the condition to Closing set forth in Section 3.3(a) has been satisfied or waived in writing, unless another date or time is agreed to in writing by the Parties. The date on which the Closing is actually held is referred to herein as the “Closing Date”.

3.2 Closing Actions

. At the Closing:

(a) Takeda shall deliver to Ovid the Initial Payment in accordance with Section 7.11; and

(b) Ovid shall (i) deliver to Takeda the Specified Transferred Materials, (ii) duly executed assignments of the agreements referred to in Section 2.3(c)(iii), (iii) duly executed long-form and short-form assignments of the intellectual property rights referred to in Section 2.3(c)(iv) and (iv) the Regulatory Materials contemplated by Section 10.2(k).

3.3 Conditions Precedent

(a) The termination of the Collaboration Agreement in accordance with Article 2 and the respective obligations of each Party to consummate the transactions contemplated by this Agreement shall be subject to the satisfaction (or waiver in writing by both Takeda and Ovid), at or prior to the Closing, of the following condition: any applicable waiting period (and any extension thereof) under the HSR Act shall have expired or been terminated.

(b) Each of the representations and warranties of Ovid set forth in Section 10.2 are true and correct in all respects as of the Closing Date with the same force and effect as if made on and as of the Closing Date and Ovid shall deliver to Takeda a certificate, dated as of the Closing Date and signed by a duly authorized officer of Ovid, stating the same.

ARTICLE 4 – LICENSES

4.1 Licenses from Ovid to Takeda

. The Ovid Intellectual Property as of the Effective Date is set forth on Exhibit E. To the extent that Ovid, at any time during the Term, Controls any Ovid Intellectual Property, subject to the terms and conditions of this Agreement, Ovid hereby grants to Takeda:

(a) an exclusive (even as to Ovid), perpetual, transferable, fully paid-up, royalty-free (except as provided in Section 7.2) license in the Field, with the right to grant sublicenses, under the Ovid Intellectual Property to Exploit, Develop, Commercialize and Manufacture any Product in the Territory during the Term; and

(b) a non-exclusive, perpetual, transferable license, with the right to grant sublicenses, under any Ovid Intellectual Property that constitutes an improvement to the Takeda Intellectual Property, to Exploit any compound (excluding the Compound).

4.2 **Ovid Reservation of Rights**

. To the extent that Ovid has at any time during the Term any Ovid Intellectual Property, Ovid shall own and retain all right, title and interest in such Ovid Intellectual Property subject to the licenses and other rights granted to Takeda hereunder.

4.3 **Takeda Reservation of Rights**

. Takeda shall own and retain all right, title and interest in the Takeda Intellectual Property.

4.4 **No Implied Licenses**

. No license or other right is or shall be created or granted hereunder by implication, estoppel, or otherwise. All licenses and rights are or shall be granted only as expressly provided in this Agreement. All rights not expressly granted by a Party under this Agreement are reserved by the Party and may not be used by the other Party for any purpose.

ARTICLE 5 – RECORDS; DISCLOSURE OF DATA AND RESULTS

5.1 **Ovid Records; Disclosure of Data and Results**

. In conformity with standard pharmaceutical industry practices and the terms and conditions of this Agreement, Ovid shall prepare and maintain, or shall cause to be prepared and maintained, complete and accurate written records, accounts, notes, reports and data with respect to activities conducted during the Collaboration Period for a minimum of [***] following the end of the Calendar Year to which they pertain and, upon Takeda's written request, shall send legible copies of the aforesaid to Takeda for a minimum of [***] following the Closing Date. Upon reasonable advance notice, at the request of Takeda, Ovid agrees to make its employees and consultants reasonably available at their respective places of employment to consult with Takeda on issues arising in connection with the activities conducted during the Collaboration Period. Ovid shall promptly and fully disclose to Takeda in writing all data, including preclinical data, Clinical Trial data, formulation data and manufacturing data generated by or on behalf of Ovid with respect to the Products in the Field (including any such data set forth on Schedule 5.1) unless Takeda has confirmed that such data is already in Takeda's possession.

5.2 **Takeda Disclosure**

. During the period commencing on the Closing Date and ending on [***] (the "Disclosure Period"), on at least a [***] Takeda shall promptly and fully disclose to Ovid in writing any material developments regarding the Development of the Products in the Field. Takeda shall reasonably cooperate with Ovid in responding to Ovid's reasonable inquiries in connection with any such disclosure, to the extent reasonably necessary for Ovid to comply with its SEC reporting obligations. Additionally, during the Disclosure Period, Takeda shall notify Ovid prior to making any public announcement regarding the Products that would reasonably be likely to impact the timing of a Milestone Payment under Section 7.1(b)(i) through (iv), including the issuance of a clinical hold or the announcement of negative clinical data.

ARTICLE 6 – TRADEMARKS

6.1 Trademarks

(a) **Ownership.** Takeda shall continue to own, throughout the world, all Takeda House Marks. Ovid shall continue to own, throughout the world, all Ovid House Marks.

ARTICLE 7 – PAYMENT

7.1 Initial Payment and Milestone Payments

(a) **Initial Payment.** Upon the Closing, and in consideration for the termination of the Collaboration Agreement, Takeda shall pay to Ovid an amount in cash equal to one hundred ninety six million US dollars (\$196,000,000) (the “Initial Payment”).

(b) **Milestone Payments.** Takeda shall pay to Ovid the following [***] milestone payments within [***] following and subject to the first occurrence of each event set forth below (the “Milestone Payments”):

- (i) Upon and subject to [***], Takeda shall pay to Ovid an amount in cash equal to [***].
- (ii) Upon and subject to [***], Takeda shall pay to Ovid an amount in cash equal to [***].
- (iii) Upon and subject to [***], Takeda shall pay to Ovid an amount in cash equal to [***].
- (iv) Upon and subject to [***], Takeda shall pay to Ovid an amount in cash equal to [***].
- (v) Upon and subject to [***], Takeda shall pay to Ovid an amount in cash equal to [***].
- (vi) Upon and subject to [***], Takeda shall pay to Ovid an amount in cash equal to [***].
- (vii) Upon and subject to [***], Takeda shall pay to Ovid an amount in cash equal to [***].
- (viii) Upon and subject to [***], Takeda shall pay to Ovid an amount in cash equal to [***].
- (ix) Upon and subject to [***], Takeda shall pay to Ovid an amount in cash equal to [***].

7.2 Royalty Payments

. Following the Closing, in consideration for the license granted by Ovid to Takeda pursuant to Section 4.1(a), Takeda shall pay to Ovid tiered royalties as

percentages of Net Sales of the Product (in any indication) in each Calendar Year (the “Royalty Payments”). The Royalty Payments shall, subject to Section 7.3, be calculated as follows:

- (a) in respect of Takeda’s [***] up to (but excluding) [***];
- (b) in respect of Takeda’s [***] up to (but excluding) [***];
- (c) in respect of Takeda’s [***] up to (but excluding) [***];
- (d) in respect of Takeda’s [***] up to (but excluding) [***];
- (e) in respect of Takeda’s [***] up to (but excluding) [***]; and
- (f) in respect of Takeda’s [***], twenty percent (20%).

For the avoidance of doubt, if Takeda’s [***] are equal to [***], the Royalty Payments in respect of such [***] will be an aggregate amount equal to [***]. For clarity, Takeda’s obligation to pay royalties to Ovid pursuant to this Section 7.2 shall apply to all Net Sales of the Product, including Net Sales of Product for use outside of the Field.

7.3 **Royalty Period and Royalty Reductions**

(a) The Royalty Payments in respect of any Product in any country shall be payable during the applicable Royalty Term for such Product in such country.

(b) In any Calendar Quarter during the applicable Royalty Term that a Product is not Covered by a Valid Claim of a Takeda Patent or Joint Patent in a country where such Product is sold, then the Royalty Payments in respect of such Product in such country will be reduced by [***]. Notwithstanding the foregoing, on a country-by-country basis, if, during the applicable Royalty Term, a Product is [***] in such country prior to the [***] anniversary of First Commercial Sale of such Product, then the royalty will only be reduced under this Section 7.3(b) by [***] until the earlier of (i) the [***] of the First Commercial Sale of such Product in such country or (ii) the expiration of Regulatory Exclusivity in such country for such Product.

(c) If, in any country, a Product is [***] one or more Generic Products enter(s) the market and compete(s) with a Product, then the Royalty Payments in respect of such Product in such country will be reduced by [***] of such Product and all Generic Products in such country. For purposes of this Section 7.3(c), a “Generic Product” means, with respect to a particular Product and in respect of any country, a pharmaceutical product that (a) is sold in such country by a Third Party that is not a (sub)licensee of Takeda or its Affiliates, and where such Third Party did not purchase or acquire such product in a chain of distribution that included any of Takeda or its Affiliates or (sub)licensees, and (b) has received Regulatory Approval (with all references in the definition Regulatory Approval to “Product” to be deemed references to such pharmaceutical product) in such country for the same indication as the applicable Product as a “generic drug”, “generic medicinal product”, “bioequivalent,” or similar designation of interchangeability by the applicable Regulatory Authority in such country, where such approval referred to or relied on the approved NDA (or equivalent in the applicable jurisdiction) for such Product in such jurisdiction, or the data contained or referenced in such NDA (or equivalent in the applicable jurisdiction).

(d) The maximum aggregate reduction applicable to any Royalty Payments in any Calendar Quarter during the applicable Royalty Term in any country pursuant to Sections 7.3(b) and 7.3(c) shall be [***].

7.4 **Reconciliation and Settlement**

(a) Within [***] after the end of each Calendar Quarter, Takeda shall make the Royalty Payments to Ovid and provide a written report to Ovid's Finance Officer setting forth Takeda's Net Sales of the Product in such Calendar Quarter and Takeda's calculation of the Royalty Payments in respect of such Calendar Quarter (each, a "Quarterly Report"). Each Quarterly Report shall specify in reasonable detail all Net Sales of Takeda and the calculation of the Royalty Payments, and, if requested by Ovid, any invoices or other supporting documentation for any payments to a Third Party that individually exceed [***] or with respect to which documentation is otherwise reasonably requested.

(b) For the avoidance of doubt, no cost or expense shall be counted more than once in calculating Net Sales, even if such cost or expense falls into more than one of the cost categories included in Net Sales.

7.5 **Consistency with Accounting Treatment**

All calculations of Net Sales hereunder shall be made in accordance with Accounting Standards, including the provisions thereof regarding expense and revenue recognition, as applied by Takeda consistently with their application in its external financial reporting.

7.6 **Payment for Third Party Licenses**

Takeda shall be entitled to deduct from any Royalty Payments otherwise payable pursuant to Section 7.2 an amount equal to [***] of any royalties owed to any Third Party for patent rights of such Third Party that Takeda determines, based on the advice of counsel, are necessary for the Exploitation of a Product in the Field in the Territory. For clarity, the maximum aggregate reduction applicable to any Royalty Payments in any Calendar Quarter during the applicable Royalty Term in any country pursuant to Sections 7.3(b) and 7.3(c) and this Section 7.6, shall be [***].

7.7 **Exchange Rate**

The rate of exchange to be used in computing the amount of currency equivalent in U.S. Dollars owed to a Party under this Agreement shall be calculated in accordance with Takeda's standard policy, which is in accordance with Accounting Standards.

7.8 **Taxes**

The amounts payable pursuant to this Agreement ("Payments") shall not be reduced on account of any taxes unless required by Applicable Laws. Takeda shall deduct and withhold from the Payments any taxes that it is required by Applicable Laws to deduct or withhold. Notwithstanding the foregoing, if Ovid is entitled under any applicable tax treaty to a reduction of rate of, or the elimination of, or recovery of, applicable withholding tax, it may deliver to Takeda or the appropriate governmental authority the prescribed forms necessary to reduce the applicable rate of withholding or to relieve Takeda of its obligation to withhold tax. In such case Takeda shall apply the reduced rate of withholding, or not withhold, as the case may be, *provided* that Takeda is in receipt of evidence, in a form reasonably satisfactory to Takeda, for example Ovid's delivery of all applicable documentation at least [***] prior to the time that the Payments are due. If, in accordance with the foregoing, Takeda withholds any amount, it shall pay to Ovid the balance

when due, make timely payment to the proper taxing authority of the withheld amount, and send Ovid proof of such payment within [***] following that payment. If Takeda assigns its rights and obligations hereunder to an Affiliate or Third Party in compliance with Section 16.3 and if such Affiliate or Third Party shall be required by Applicable Law to withhold any additional taxes from or in respect of any amount payable under this Agreement as a result of such assignment, then any such amount payable under this Agreement shall be increased to take into account the additional taxes withheld as may be necessary so that, after making all required withholdings, Ovid receives an amount equal to the sum it would have received had no such assignment been made. The foregoing sentence shall not apply to any additional taxes withheld for which Ovid may obtain a foreign tax credit.

7.9 **Corrections to Calculations**

. In the event Takeda discovers a need for correction in calculating the amount of Net Sales made by Takeda during any previous Calendar Quarter, it shall promptly notify Ovid of such discovery. The Parties shall then discuss the validity and appropriateness of the correction. If the Parties agree that such correction should be made and collectively verify the amount to be corrected (or if correction is identified by an auditor pursuant to any audit contemplated by Section 7.10, then such amounts shall be included in the following Quarterly Report of Takeda; *provided* that only corrections for expenses that have occurred in the previous [***] prior to the date of the notice described in the first sentence of this Section 7.9 shall be eligible for correction. If the Parties do not agree on the validity or appropriateness of the requested correction, such dispute shall be referred to the Finance Officers for resolution. For the avoidance of doubt, neither Party shall have final decision-making authority with respect to the validity or appropriateness of the requested correction.

7.10 **Audit**

. Takeda will maintain complete and accurate records in sufficient detail to permit Ovid to confirm the accuracy of the calculation of payments under this Agreement. Upon reasonable prior notice, such records shall be available during regular business hours for a period of [***] from the end of the Calendar Year to which they pertain for examination at the expense of Ovid and, not more often than [***] each Calendar Year, by an independent certified public accountant selected by Ovid and reasonably acceptable to Takeda, for the sole purpose of verifying the accuracy of the financial reports furnished by Takeda pursuant to this Agreement. Any such auditor shall not disclose Takeda's Confidential Information, except to the extent such disclosure is necessary to verify the accuracy of the financial reports furnished by Takeda or the amount of payments due by Takeda under this Agreement during the prior [***]. Any amounts shown to be owed but unpaid shall be paid within [***] from the accountant's report, plus interest (as set forth in Section 7.11) from the original due date. Any amounts shown to have been overpaid shall be refunded within [***] from the accountant's report. Ovid shall bear the full cost of such audit unless such audit discloses an underpayment by Takeda of more than [***] of the amount due, in which case Takeda shall bear the full cost of such audit.

7.11 **Manner of Payment, Late Payment**

. All payments due to a Party hereunder shall be made in U.S. Dollars by wire transfer of immediately available funds into an account designated by such Party. If a Party does not receive payment of any sum due to it on or before the due date, simple interest shall thereafter accrue on the sum due to such Party until the date of payment at the per annum rate of [***] over the then-current U.S. Prime Rate (PRIME:IND) quoted by Bloomberg or the maximum rate allowable by Applicable Laws, whichever is lower.

. The Parties shall cooperate with each other to achieve the finance and accounting objectives contemplated herein in a timely, accurate and responsive manner. The Parties shall establish a finance and accounting working group to manage financial and accounting affairs related to the Products, which, for at least [***] after the Effective Date, shall meet [***] unless otherwise agreed upon by the Parties.

ARTICLE 8 — RIGHTS TO PARTICIPATE

8.1 Royalty Monetization Transaction Right of Offer.

(a) **Royalty Monetization Transactions.** Neither Ovid nor any of its Affiliates shall effect any Royalty Monetization Transaction during the Term except in compliance with the procedures set forth in this Section 8.1 (as well as other applicable provisions of this Agreement). For purposes of this Section 8.1, a “**Royalty Monetization Transaction**” means any transaction or series of related transactions pursuant to which Ovid and/or any of its Affiliates sells, assigns or transfers the right to receive or raises finance in respect of or otherwise monetizes in any way the Milestone Payments and/or the Royalty Payments.

(b) Grant

. If during the Term Ovid and/or any of its Affiliates proposes to effect any Royalty Monetization Transaction, Ovid and/or such Affiliate may effect such Royalty Monetization Transaction, *provided* that Ovid shall first give Takeda notice of such intent and the right to participate in the process for such Royalty Monetization Transaction.

(c) Right of Offer

(i) If Ovid has a *bona fide* intention to effect any Royalty Monetization Transaction, Ovid shall give notice in writing (the “Royalty Monetization Notice”) to Takeda of the proposed transaction promptly following Ovid’s determination to engage in negotiations with a Third Party with respect to such Royalty Monetization Transaction.

(ii) Upon receipt of the Royalty Monetization Notice, Takeda and/or any of its Affiliates or designees shall have the right, but not the obligation, for a period of [***] following receipt of the Royalty Monetization Notice (the “Royalty Monetization Period”), to offer to participate in the Royalty Monetization Transaction process. Ovid shall not complete a Royalty Monetization Transaction prior to the expiration of the Royalty Monetization Period.

(d) Completion of Transaction

. If Takeda elects to participate in the Royalty Monetization Transaction process, Ovid shall negotiate with Takeda on a non-exclusive basis the terms of such Royalty Monetization Transaction, provided, that Ovid shall have the right at any time to complete the Royalty Monetization Transaction with a Third Party or cease negotiations with Takeda with respect thereto.

8.2 Divestment Transaction Right of Offer.

(a) **Divestment Transactions.** Neither Takeda nor any of its Affiliates shall effect any Divestment Transaction during the Term except in compliance with the procedures set forth in this Section 8.2 (as well as other applicable provisions of this Agreement). For purposes of this Section 8.2, a “**Divestment Transaction**” means any transaction or series of related

transactions pursuant to which Takeda and/or any of its Affiliates sells, assigns or transfers, all or substantially all of the Takeda Intellectual Property, or exclusively licenses or exclusively sublicenses to any Third Party any Takeda Intellectual Property or Ovid Intellectual Property in the Field to Exploit any Product in the United States.

(b) **Grant**

. If during the Term Takeda and/or any of its Affiliates proposes to effect any Divestment Transaction, Takeda and/or such Affiliate may effect such Divestment Transaction, *provided* that Takeda shall first give Ovid notice of such intent and the right to participate in the process for such Divestment Transaction in accordance with this Section 8.2.

(c) **Right of Offer**

(i) If Takeda has a *bona fide* intention to effect any Divestment Transaction, Takeda shall give notice in writing (the “Divestment Notice”) to Ovid of the proposed transaction promptly following Takeda’s determination to engage in negotiations with a Third Party with respect to such Divestment Transaction.

(ii) Upon receipt of the Divestment Notice, Ovid shall have the right, but not the obligation, for a period of [***] following receipt of the Divestment Notice (the “Divestment Period”), to offer to participate in the Divestment Transaction process. Takeda shall not complete a Divestment Transaction prior to the expiration of the Divestment Period.

(d) **Completion of Transaction**

. If Ovid elects to participate in the Divestment Transaction process, Takeda shall negotiate with Ovid on a non-exclusive basis the terms of such Divestment Transaction, provided, that Takeda shall have the right at any time to complete the Divestment Transaction with a Third Party or cease negotiations with Ovid with respect thereto.

ARTICLE 9 – INTELLECTUAL PROPERTY MATTERS

9.1 **Ownership of Inventions**

. Takeda shall retain ownership of the Takeda Intellectual Property. Subject to the licenses set forth in Article 4, Ovid shall retain ownership of the Ovid Intellectual Property.

ARTICLE 10 – REPRESENTATIONS AND WARRANTIES; COVENANTS

10.1 **Mutual Representations and Warranties**

. Each of the Parties hereby represents and warrants to the other Party as of the Effective Date that:

(a) **Organization.** It is a corporation duly organized, validly existing, and in good standing under the laws of the jurisdiction of its organization, and has all requisite power and authority, corporate or otherwise, to execute, deliver, and perform this Agreement.

(b) **Binding Agreement.** This Agreement is a legal and valid obligation binding upon such Party and enforceable in accordance with its terms, subject to the effects of bankruptcy, insolvency, or other laws of general application affecting the enforcement of creditor rights, judicial principles affecting the availability of specific performance, and general principles of equity (whether enforceability is considered in a proceeding at law or in equity).

(c) **Authorization.** The execution, delivery, and performance of this Agreement by such Party have been duly authorized by all necessary corporate action and do not conflict with any agreement, instrument, or understanding, oral or written, to which it is a party or by which it is bound, nor violate any Applicable Laws or any order, writ, judgment, injunction, decree, determination, or award of any court or governmental body, or administrative or other agency presently in effect applicable to such Party.

(d) **No Further Approval.** No government authorization, consent, approval, license, exemption or filing or registration with any court or governmental department, commission, board, bureau, agency or instrumentality, domestic or foreign, under any Applicable Laws, currently in effect, necessary for, or in connection with, the transactions contemplated by this Agreement or any other agreement or instrument executed in connection herewith, or for the performance by it of its obligations under this Agreement and such other agreements (save for Regulatory Approvals and similar authorizations from Regulatory Authorities necessary for the Exploitation of the Compounds and the Products as contemplated hereunder and compliance with and filings under the HSR Act).

(e) **No Inconsistent Obligations.** Neither Party is under any obligation, contractual or otherwise, to any Person that conflicts with or is inconsistent in any material respect with the terms of this Agreement, or that would impede the diligent and complete fulfillment of its obligations hereunder.

10.2 **Additional Representations and Warranties of Ovid**

. Ovid represents and warrants as of the Effective Date to Takeda that:

(a) Schedule 10.2(a) sets forth a full and complete list of all agreements to which Ovid, or its Affiliate, and a Third Party are parties, and that cover or govern the Exploitation, Development, Commercialization and Manufacturing activities conducted in connection with a Product.

(b) Schedule 10.2(b) sets forth a full and complete list of all of the Joint IP.

(c) Other than the Joint IP, neither Ovid nor its Affiliates own or Control (i) any Inventions or (ii) any Patents or other intellectual property rights (A) that cover the composition of matter or any method of use of the Lead Compound, (B) that are reasonably necessary to Exploit the Compound or a Product in the Field in the Territory or (C) that are (or were) used by Ovid prior to the Effective Date in the Exploitation of a Compound or a Product in the Field.

(d) Neither Ovid nor its Affiliates has any rights in, to or under any Product Trademarks.

(e) Except as set forth in Schedule 10.2(e), neither Ovid nor its Affiliates have granted any license, sublicense or any other rights to any Third Party that cover or govern the Exploitation, Development, Commercialization or Manufacturing activities conducted in connection with a Product prior to the Closing Date, including under the Takeda Intellectual Property or the Ovid Intellectual Property.

(f) Neither Ovid nor its Affiliates have received any license, sublicense or other grant of rights from any Third Party under any intellectual property rights in connection with the Exploitation of any Product in the Territory or any other matters contemplated by the Collaboration Agreement.

(g) Ovid is the sole and exclusive owner of the entire right, title and interest in the Ovid Intellectual Property, free of any encumbrance, lien, or claim of ownership by any Third Party.

(h) The Ovid Know-How has been kept confidential or has been disclosed to Third Parties only under terms of confidentiality. To the knowledge of Ovid, no breach of such confidentiality has been committed by any Third Party.

(i) To Ovid's knowledge, no claim or litigation in the Territory has been brought or threatened by any Person alleging, and Ovid has no knowledge of any claim, whether or not asserted: (i) that the Ovid Intellectual Property, or the disclosing, copying, making, assigning, practicing, or licensing of the Ovid Intellectual Property, violates, infringes, or otherwise conflicts or interferes with, or would violate, infringe; or otherwise conflict or interfere with, any intellectual property or proprietary right of any Person; or (ii) related to the Exploitation of the Products, including any claims of Product Liabilities, or Patent infringement as of the Effective Date.

(j) None of Ovid nor any of its Affiliates has any inventory of any Product on hand.

(k) None of Ovid nor any of its Affiliates are in possession of any Regulatory Materials directly and solely relating to the Products that have not been provided to Ovid by or on behalf of Takeda or its Affiliates.

10.3 NO OTHER REPRESENTATIONS OR WARRANTIES

. EXCEPT AS EXPRESSLY SET FORTH IN THIS ARTICLE 10, THE PARTIES MAKE NO REPRESENTATIONS OR WARRANTIES OF ANY KIND WHATSOEVER, EITHER EXPRESS OR IMPLIED, WRITTEN OR ORAL, EITHER IN FACT OR BY OPERATION OF LAW, BY STATUTE OR OTHERWISE, AND EACH PARTY SPECIFICALLY DISCLAIMS ANY OTHER WARRANTIES, INCLUDING ANY EXPRESS OR IMPLIED WARRANTY OF QUALITY, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR WARRANTY OF NON-INFRINGEMENT OR AS TO THE VALIDITY OF ANY PATENTS IN THE TERRITORY.

10.4 Standstill Provision

. During the period commencing on the Closing Date and ending on [***] (the "Standstill Period"), neither Takeda, any of Takeda's controlled Affiliates nor any of Takeda's representatives acting on behalf of or in concert with Takeda will, in any manner, directly or indirectly:

(a) make, effect, initiate, cause or participate in (i) [***], (ii) [***] or (iii) [***] or (iv) [***];

(b) [***];

- (c) [***];
- (d) [***] set forth in Section 10.4(a);
- (e) [***] referred to in Sections 10.4(a), (b), (c) or (d);
- (f) [***] referred to in Sections 10.4(a), (b), (c), (d) or (e) [***];
- (g) [***]; or
- (h) [***] set forth in this Section 10.4 (including this clause (h)).

Notwithstanding any other provision of this Agreement to the contrary, (i) nothing in this Section 10.4 will [***] and (ii) this Section 10.4 shall terminate upon a Fundamental Change Event. “Fundamental Change Event” means the date that Ovid enters into a definitive written agreement with any Person other than the Takeda (or any of its Affiliates) to consummate a merger, consolidation or similar transaction pursuant to which (1) any Person other than the Takeda (or any of its Affiliates) will acquire [***] or more of the outstanding voting stock of Ovid or (2) Ovid and its subsidiaries will sell to any Person other than the Takeda (or any of its Affiliates) all or substantially all of the consolidated assets of Ovid and its consolidated subsidiaries. The expiration of the Standstill Period will not terminate or otherwise affect any other of the provisions of this Agreement. [***] means that [***].

During the Standstill Period, [***] Ovid shall permit [***].

10.5 **Restrictions on Transfer.**

(a) During the period commencing on the Effective Date and ending on the earlier of (i) [***] and (ii) the date upon which Takeda owns [***] of the outstanding capital stock of Ovid (the “Restricted Period”), Takeda will not, and will cause its controlled Affiliates not to, Transfer any Shares or any other Ovid securities owned or held by Takeda (or an Affiliate); *provided, however*, that Takeda shall be permitted to Transfer any portion or all of its Shares, or any other Ovid securities, acquired by Takeda (or an Affiliate) after the Effective Date, at any time under the following circumstances:

(i) Transfers to an Affiliate of Takeda, but only upon notice in writing to Ovid and provided the transferee agrees in writing for the benefit of Ovid (in form and substance satisfactory to Ovid) to be bound by the terms and conditions of this Agreement and if the transferee and the transferor agree for the express benefit of Ovid that the transferee shall Transfer Shares so Transferred back to the transferor at or before such time the transferee ceases to be an Affiliate of the transferor.

(ii) Transfers that have been approved in writing by Ovid’s board of directors.

(b) Notwithstanding Sections 10.5(a) and (d), commencing [***] after the Effective Date and until the end of the Restricted Period, in each fiscal quarter, Takeda may transfer up to an aggregate of [***] of Ovid’s capital stock outstanding on the first day of fiscal

quarter, *provided* that the foregoing restriction shall not apply once Takeda owns less than [***] of the outstanding capital stock of Ovid.

(c) Following the Restricted Period, and for so long as Takeda owns [***] of the outstanding capital stock of Ovid, on each Business Day, Takeda may Transfer Shares or other Ovid securities in an aggregate amount not to exceed [***] of Ovid's daily total share volume traded on the Nasdaq Global Select Market, or such other stock exchange on which Ovid's securities are listed, on such Business Day, *provided* that the aggregate number of Shares or other Ovid securities that Takeda Transfers in any calendar month shall not exceed [***] of Ovid's capital stock outstanding on the first day of such month. For clarity, the foregoing restriction shall not apply once Takeda owns less than [***] of the outstanding capital stock of Ovid.

(d) In the event of any Transfer by Takeda of its Shares or its other Ovid securities, Takeda shall notify Ovid in writing of such Transfer. Takeda shall use commercially reasonable efforts to provide such notice prior to effecting any such Transfer, but in any event Takeda shall provide such notice within [***] following such Transfer. Additionally, in the event of any Transfer by Takeda to an Affiliate of Takeda, the pledgee, transferee or donee shall furnish Ovid with a written agreement to be bound by the provisions of Sections 10.4 through 10.6 of this Agreement (the "Transferee Agreement"). In addition to any other conditions set forth in this Agreement or as otherwise required by Ovid, such Transfer to an Affiliate of Takeda shall not be valid unless and until Ovid receives the Transferee Agreement.

10.6 Voting of Shares

(a) Until the earlier of (a) the expiration of the Standstill Period and (b) the first date on which Takeda beneficially owns less than [***] of the outstanding voting power of Ovid (the "Voting Agreement Duration"), in any vote or action by written consent of the stockholders of Ovid on a matter that requires the vote of such stockholders, Takeda shall, and shall cause its controlled Affiliates to, vote (in person, by proxy or by action by written consent, as applicable) with respect to all voting securities of Ovid as to which it is entitled to vote in accordance with the recommendations of Ovid's board of directors, if any; [***]. During the Voting Agreement Duration, Takeda shall be, and shall cause each of its controlled Affiliates to be, present in person or represented by proxy at all meetings of stockholders of Ovid to the extent necessary so that all voting securities of Ovid as to which they are entitled to vote shall be counted as present for the purpose of determining the presence of a quorum at such meeting.

(b) Solely in the event of a failure by Takeda to act in accordance with Takeda's obligations as to voting or executing a written consent pursuant to this Section 10.6, Takeda hereby irrevocably grants to and appoints [***], in his/her capacity as [***], Takeda's proxy and attorney-in-fact (with full power of substitution), for and in the name, place and stead of Takeda, to represent, vote and otherwise act (by voting at any meeting of stockholders of Ovid, by written consent in lieu thereof or otherwise) with respect to the voting securities of Ovid owned or held by Takeda during the Voting Agreement Duration, to the same extent and with the same effect as Takeda might or could do under applicable law, rules and regulations. The proxy granted pursuant to this Section 10.6 is coupled with an interest and shall be irrevocable. Takeda will take such further action and will execute such other instruments as may be necessary to effectuate the intent of this proxy. Takeda hereby revokes any and all previous proxies or powers of attorney granted

with respect to any of the Shares that may have heretofore been appointed or granted with respect to the matters referred to in this Section 10.6, and no subsequent proxy (whether revocable and irrevocable) or power of attorney shall be given by Takeda. Notwithstanding the foregoing, upon expiration of the Voting Agreement Duration, this proxy shall terminate.

10.7 **Exclusivity.**

(a) During the period between the Effective Date and the Closing Date (the “Pre-Closing Period”), other than with respect to the transactions contemplated hereby, Ovid will not, and will neither authorize nor permit any of its directors, officers, employees, stockholders, affiliates, representatives or agents (collectively, “Ovid Representatives”) to, directly or indirectly, except with the prior written consent of Takeda, [***]. Ovid agrees that it will not accept or enter into any agreement, arrangement or understanding regarding any [***] with any party (other than Takeda) during the Pre-Closing Period. Notwithstanding the foregoing, subject to Ovid’s notification obligations in Section 10.7(b), the restrictions set forth in clauses (ii), (iii) and (iv) of this Section 10.7(a) shall not apply to any inquiry, proposal or offer regarding any [***], *provided* that such any inquiry, proposal or offer is not initiated or solicited by or on behalf of Ovid or any affiliate of Ovid. For purposes of this Section 10.7, [***] means [***].

(b) Furthermore, if, during the Pre-Closing Period, Ovid or any of the Ovid Representatives receives any inquiry, proposal or offer regarding an Acquisition Transaction, Ovid will promptly (and in any event within [***]) notify Takeda of the general terms and conditions of such inquiry, proposal, offer or request. For purposes of this Section 10.7, “Acquisition Transaction” means any merger or consolidation with or involving Ovid or any of its subsidiaries or any direct or indirect acquisition or sale of all or substantially all of (1) the equity securities of Ovid, or (2) assets of Ovid, including, without limitation, the rights and licenses granted in the Collaboration Agreement to Ovid, the rights and licenses granted to Takeda pursuant to this Agreement, the Compound and all or substantially all of the intellectual property of Ovid.

10.8 **Additional Covenants**

. Notwithstanding anything to the contrary herein, Ovid shall not repurchase any shares of capital stock if doing so would result in Takeda and its Affiliates beneficially owning more than 19.99% of Ovid’s outstanding capital stock.

ARTICLE 11 – CONFIDENTIALITY

11.1 **Nondisclosure**

. Each Party agrees that, during the Term and for a period of [***] thereafter, a Party (the “Receiving Party”) receiving Confidential Information of the other Party (the “Disclosing Party”) shall: (a) maintain in confidence such Confidential Information using not less than the efforts such Receiving Party uses to maintain in confidence its own confidential or proprietary information of similar kind and value; (b) not disclose such Confidential Information to any Third Party without the prior written consent of the Disclosing Party, except for disclosures expressly permitted below; and (c) not use such Confidential Information for any purpose except those permitted by this Agreement (it being understood that this Section 11.1 shall not create or imply any rights or licenses not expressly granted under this Agreement). Notwithstanding anything to the contrary in the foregoing, the obligations of confidentiality and non-use with respect to any trade secret within such Confidential Information that has been identified as a trade

secret shall survive such [***] period for so long as such Confidential Information remains protected as a trade secret under Applicable Laws.

11.2 Exceptions

. The obligations in Section 11.1 shall not apply with respect to any portion of the Confidential Information that the Receiving Party can show by competent evidence:

- (a) is publicly disclosed by the Disclosing Party, either before or after it is disclosed to the Receiving Party hereunder;
- (b) is known to the Receiving Party or any of its Affiliates, without any obligation to keep it confidential or any restriction on its use, prior to disclosure by the Disclosing Party;
- (c) is subsequently disclosed to the Receiving Party or any of its Affiliates on a non-confidential basis by a Third Party that, to the Receiving Party's knowledge, is not bound by a similar duty of confidentiality or restriction on its use;
- (d) is now, or hereafter becomes, through no act or failure to act on the part of the Receiving Party or any of its Affiliates, generally known or available, either before or after it is disclosed to the Receiving Party;
- (e) is independently discovered or developed by or on behalf of the Receiving Party or any of its Affiliates without the use of or access to Confidential Information belonging to the Disclosing Party; or
- (f) is the subject of written permission to disclose provided by the Disclosing Party.

11.3 Authorized Disclosure

(a) Takeda as the Receiving Party may disclose Confidential Information belonging to the Disclosing Party only to the extent such disclosure is reasonably necessary in the following instances:

- (i) filing or prosecuting patents as permitted by this Agreement; or
- (ii) filing Regulatory Materials in order to obtain or maintain Regulatory Approvals.

(b) Either Party as the Receiving Party may disclose Confidential Information belonging to the Disclosing Party only to the extent such disclosure is reasonably necessary in the following instances:

- (i) prosecuting or defending litigation, including responding to a subpoena in a Third Party litigation;
- (ii) complying with Applicable Laws or regulations or court or administrative orders;

(iii) to its Affiliates, sublicensees or prospective sublicensees, subcontractors or prospective subcontractors, payors, consultants, agents and advisors on a “need-to-know” basis in order for the Receiving Party to exercise its rights or fulfill its obligations under this Agreement and to (i) consultants, attorneys, accountants, and banks, in each case, engaged or working on behalf of the Receiving Party; and (ii) acquirers or potential acquirers, and investors or potential investors, in each case, of the Receiving Party (excluding, in the case of this clause (ii), disclosure of any Confidential Information (other than the terms of this Agreement) specific to or provided by the Disclosing Party), each of whom prior to disclosure must be bound by obligations of confidentiality and restrictions on use of such Confidential Information that are no less restrictive than those set forth in this Article 11; *provided* that, in each of the above situations, the Receiving Party shall remain responsible for any failure by any Person who receives Confidential Information pursuant to this Section 11.3(b)(iii) to treat such Confidential Information as required under this Article 11; or

(iv) if and whenever any Confidential Information is disclosed in accordance with this Section 11.3, such disclosure shall not cause any such information to cease to be Confidential Information except to the extent that such disclosure results in a public disclosure of such information (other than by breach of this Agreement). Notwithstanding the foregoing, in the event a Party is required to make a disclosure of the other Party’s Confidential Information pursuant to clauses (a)(i) through (b)(ii) of this Section 11.3, it will, except where impracticable or not permitted by Applicable Laws, give reasonable advance notice to the other Party of such disclosure and use not less than the same efforts to secure confidential treatment of such information as it would to protect its own confidential information from disclosure and shall be jointly and severally liable for any breach of this Article 11 by such Person.

11.4 **Terms of this Agreement**

. The Parties acknowledge that this Agreement and all of the respective terms of this Agreement shall be treated as Confidential Information of both Parties. For clarity, either Party shall be permitted to disclose the terms of this Agreement in accordance with Section 11.3(b)(iii).

11.5 **Publicity**

. The Parties shall make a joint public announcement of the execution of this Agreement in the form attached as Exhibit F, which shall be issued at a time to be mutually agreed by the Parties. Unless required by law or the rules of any securities exchange, each Party agrees not to issue any other press release or other public statement or file any document with the SEC disclosing information relating to this Agreement or the transactions contemplated hereby that contains information not previously publicly disclosed in accordance with this Section 11.5 without the prior written consent of the other Party, not to be unreasonably withheld, conditioned or delayed. Once any statement is approved for disclosure by the Parties or information is otherwise made public in accordance with this Section 11.5, either Party may make a subsequent public disclosure of the contents of such statement without further approval of the other Party provided such information remains accurate as of such time. Notwithstanding anything herein to the contrary, either Party may inform its customers, suppliers and business contacts of the licensing of the Products hereunder in the ordinary course of business.

11.6 **Securities Filings**

. Notwithstanding anything to the contrary in this Article 11, in the event either Party proposes to file with the SEC or the securities regulators of any state or other jurisdiction or any securities exchange a registration statement or any other disclosure document

that describes or refers to the terms and conditions of this Agreement or any related agreements between the Parties not previously disclosed, such Party shall notify the other Party of such intention and shall provide the other Party with a copy of relevant portions of the proposed filing at least [***] prior to such filing other than a Current Report on Form 8-K which shall be provided [***] prior to such filing (and any material revisions to such portions of the proposed filing a reasonable time prior to the filing thereof), including any exhibits thereto that refer to the other Party or the terms and conditions of this Agreement or any related agreements between the Parties or that file this Agreement or any related agreements between the Parties. The Party making such filing shall cooperate in good faith with the other Party to obtain confidential treatment with respect to portions of this Agreement or any related agreements between the Parties that the other Party reasonably requests to be kept confidential and shall only disclose the terms and conditions of this Agreement or any related agreements between the Parties or any Confidential Information that it is reasonably advised by counsel is legally required to be disclosed. No such notice shall be required if the description of or reference to this Agreement or a related agreement between the Parties contained in, or attached as an exhibit to, the proposed filing has been included in any previous filing made by either Party in accordance with this Section 11.6 or otherwise approved by the other Party.

11.7 **Equitable Relief**

. Given the nature of the Confidential Information and the competitive damage that could result to a Party upon unauthorized disclosure, use or transfer of its Confidential Information to any Third Party, the Parties agree that monetary damages may not be a sufficient remedy for any breach of this Article 11. In addition to all other remedies, a Party shall be entitled to seek specific performance and injunctive and other equitable relief as a remedy for any breach or threatened breach of this Article 11.

ARTICLE 12 – TERM AND TERMINATION

12.1 **Term**

. Except as expressly provided otherwise, this Agreement shall become effective as of the Effective Date and shall continue in full force and effect until Takeda no longer Develops or Commercializes a Product in the Territory, unless earlier terminated by agreement of the Parties (the “Term”).

12.2 **Termination**

. At any time prior to the Closing, this Agreement may be terminated and the transactions contemplated hereby abandoned as follows:

(a) by the mutual written consent of Takeda and Ovid; and

(b) by either Takeda or Ovid, if the Closing shall not have occurred on or before May 14, 2021 or such other date that Takeda and Ovid may agree upon in writing (the “Termination Date”); *provided* that the right to terminate this Agreement pursuant to this Section 12.2(b) shall not be available to Takeda or Ovid, as the case may be, if a material breach of this Agreement by such Party has resulted in the failure of the Closing to occur before the Termination Date.

12.3 Effect of Termination

. In the event of the termination of this Agreement in accordance with this Article 12:

(a) this Agreement shall forthwith become null and void (except for Article 13, Article 14, Article 16, Sections 10.3, 11.1 through 11.4 (inclusive), 11.6, 11.7 and this Section 12.3, and only in the event of termination pursuant to Section 12.1, Sections 4.1(b), 4.2 through 4.4 (inclusive), 5.1, 6.1 and 9.1 each of which shall survive such termination and remain valid and binding obligations of the Parties in accordance with their terms); and

(b) that termination pursuant to this Article 12 shall not relieve either Party from any liability (i) pursuant to the sections specified in Section 12.3(a) that survive termination or (ii) for any breach of this Agreement prior to such termination.

ARTICLE 13 – DISPUTE RESOLUTION

13.1 Exclusive Dispute Resolution Mechanism

. The Parties agree that the procedures set forth in this Article 13 shall be the exclusive mechanism for resolving any dispute, controversy, or claim between the Parties that may arise from time to time pursuant to this Agreement relating to either Party's rights or obligations hereunder (each, a "Dispute," and collectively, the "Disputes") that is not resolved through good faith negotiation between the Parties.

13.2 Resolution by Executive Officers

. Except as otherwise provided in this Section 13.2, in the event of any Dispute the Parties shall first attempt in good faith to resolve such Dispute by negotiation and consultation between themselves. In the event that such Dispute is not resolved on an informal basis within [***] after receipt of writing notice of such Dispute by a Party, either Party may, by written notice to the other Party, refer the Dispute to the Executive Officer (or his/her delegate) of the other Party for attempted resolution by good faith negotiation.

13.3 Litigation

. Any unresolved Dispute which was subject to Section 13.2, shall be brought exclusively in a court of competent jurisdiction, federal or state, located in Cook County, Illinois, and in no other jurisdiction. Each Party hereby consents to personal jurisdiction and venue in, and agrees to service of process issued or authorized by, such court.

13.4 Preliminary Injunctions

. Notwithstanding anything in this Agreement to the contrary, a Party may seek a temporary restraining order or a preliminary injunction from any court of competent jurisdiction in order to prevent immediate and irreparable injury, loss, or damage on a provisional basis, pending the decision of the arbitrator(s) on the ultimate merits of any Dispute.

13.5 Payment Tolling

. During the pendency of any dispute resolution proceeding between the Parties under this Article 13, the obligation to make any disputed portion of a payment under this Agreement from one Party to the other Party shall be tolled until the final outcome of such Dispute has been established.

13.6 WAIVER OF RIGHT TO JURY TRIAL

. IN CONNECTION WITH THE PARTIES' RIGHTS UNDER SECTION 13.3, EACH PARTY, TO THE EXTENT PERMITTED BY APPLICABLE LAWS, KNOWINGLY, VOLUNTARILY, AND INTENTIONALLY WAIVES ITS RIGHT TO A TRIAL BY JURY IN ANY ACTION OR OTHER LEGAL PROCEEDING ARISING OUT OF OR RELATING TO THIS AGREEMENT AND THE

TRANSACTIONS IT CONTEMPLATES. THIS WAIVER APPLIES TO ANY ACTION OR LEGAL PROCEEDING, WHETHER SOUNDING IN CONTRACT, TORT, OR OTHERWISE.

ARTICLE 14 – INDEMNIFICATION

14.1 Indemnification by Ovid

. Ovid hereby agrees to defend, indemnify and hold harmless Takeda and its Affiliates, and each of their respective directors, officers, employees, agents and representatives (each, a “Takeda Indemnitee”) from and against any and all claims, suits, actions, demands, liabilities, expenses and/or loss, including reasonable legal expense and attorneys’ fees (collectively, the “Losses”), to which any Takeda Indemnitee may become subject as a result of any claim, demand, action or other proceeding by any Third Party (each, a “Claim”) to the extent such Claim alleges Losses arising directly or indirectly out of (a) the breach by Ovid of any warranty, representation, covenant or agreement made by Ovid in this Agreement or any Ancillary Agreement, (b) the willful misconduct or grossly negligent acts of any Ovid Indemnitee or (c) the practice by Ovid or its Affiliates or its sublicensees of any license granted to it under Section 2.3(c)(ix); except to the extent such Losses arise directly or indirectly from a breach by Takeda described in Section 14.2.

14.2 Indemnification by Takeda

. Takeda hereby agrees to defend, indemnify and hold harmless Ovid and its Affiliates, and each of their respective directors, officers, employees, agents and representatives (each, an “Ovid Indemnitee”) from and against any and all Losses to which any Ovid Indemnitee may become subject as a result of any Claim to the extent such Claim alleges Losses arising directly or indirectly out of (a) the breach by Takeda of any warranty, representation, covenant or agreement made by Takeda in this Agreement or any Ancillary Agreement, (b) the Exploitation, Development, Manufacture, or Commercialization of Products by Takeda, its Affiliates and their respective (sub)licensees on or after the Closing Date, or (c) the willful misconduct or grossly negligent acts of any Takeda Indemnitee; except to the extent such Losses arise directly or indirectly from a breach by Ovid described in Section 14.1.

14.3 Indemnification Procedures

(a) **Notice.** Promptly after a Takeda Indemnitee or a Ovid Indemnitee (each, an “Indemnitee”) receives notice of a pending or threatened Claim, such Indemnitee shall give written notice of the Claim to the Party from whom the Indemnitee is entitled to receive indemnification pursuant to Sections 14.1 or 14.2, as applicable (the “Indemnifying Party”). However, an Indemnitee’s delay in providing or failure to provide such notice will not relieve the Indemnifying Party of its indemnification obligations, except to the extent it can demonstrate prejudice due to the delay or lack of notice.

(b) **Defense.** Upon receipt of notice under Section 14.3(a) from the Indemnitee, the Indemnifying Party will have the duty to either compromise or defend such Claim, at its own expense and by counsel reasonably satisfactory to Indemnitee. The Indemnifying Party will promptly (and in any event not more than [***] after receipt of the Indemnitee’s original notice) notify the Indemnitee in writing that it acknowledges its obligation to indemnify the Indemnitee with respect to the Claim pursuant to this Article 14 and of its intention either to compromise or defend such Claim. Once the Indemnifying Party gives such notice to the Indemnitee, the Indemnifying Party is not liable to the Indemnitee for the fees of other counsel or any other

expenses subsequently incurred by the Indemnitee in connection with such defense, other than the Indemnitee's reasonable costs of investigation and cooperation. However, the Indemnitee will have the right to employ separate counsel and to participate in the defense of a Claim at its own expense.

(c) **Cooperation.** The Indemnifying Party will cooperate fully with the Indemnifying Party and its legal representatives in the investigation and defense of any Claim. The Indemnifying Party will keep the Indemnitee informed on a reasonable and timely basis as to the status of such Claim (to the extent the Indemnitee is not participating in the defense of such Claim) and conduct the defense of such Claim in a prudent manner.

(d) **Settlement.** If an Indemnifying Party assumes the defense of a Claim, no compromise or settlement of such Claim may be effected by the Indemnifying Party without the Indemnitee's written consent (which consent will not be unreasonably withheld, conditioned or delayed), unless: (i) there is no finding or admission of any violation of law or any violation of the rights of any Person and no effect on any other claims that may be made against the Indemnitee; (ii) the sole relief provided is monetary damages that are paid in full by the Indemnifying Party; and (iii) the Indemnitee's rights under this Agreement are not adversely affected. If the Indemnifying Party fails to assume defense of a Claim within a reasonable time, the Indemnitee may settle such Claim on such terms as it deems appropriate with the consent of the Indemnifying Party (which consent shall not be unreasonably withheld, conditioned or delayed), and the Indemnifying Party will be obligated to indemnify the Indemnitee for such settlement as provided in this Article 14.

14.4 **LIMITATION OF LIABILITY**

. EXCEPT FOR A PARTY'S OBLIGATIONS SET FORTH IN THIS ARTICLE 14 (INDEMNIFICATION), AND ANY BREACH OF ARTICLE 11 (CONFIDENTIALITY), OR Article 15 (NON-COMPETITION), IN NO EVENT WILL EITHER PARTY BE LIABLE TO THE OTHER PARTY (OR THE OTHER PARTY'S AFFILIATES OR SUBLICENSEES) IN CONNECTION WITH THIS AGREEMENT FOR LOST REVENUE, LOST PROFITS (EXCEPT TO THE EXTENT OPERATING PROFITS ARE DUE AND OWING SUCH PARTY HEREUNDER), LOST SAVINGS, LOSS OF USE, DAMAGE TO GOODWILL, OR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, EXEMPLARY, PUNITIVE OR INDIRECT DAMAGES UNDER ANY THEORY, INCLUDING CONTRACT, NEGLIGENCE, OR STRICT LIABILITY, EVEN IF THAT PARTY HAS BEEN PLACED ON NOTICE OF THE POSSIBILITY OF SUCH DAMAGES.

ARTICLE 15 – NON-COMPETITION

15.1 **Non-Competition**

. During the period commencing on the Effective Date and ending on the [***] of the Closing Date, neither Party shall, and each Party shall cause its Affiliates not to, [***], *provided* that the foregoing shall not be interpreted to limit any activities of Takeda with respect to the Product either within or outside the United States. Notwithstanding the foregoing, the obligations of either Party under this Section 15.1 shall cease upon the consummation of a Change of Control of Ovid by (or with) a Third Party that [***], unless such Third Party acquirer agrees in writing to either [***], in either case, within [***] of such acquisition. Additionally, neither Party shall be in breach of this Section 15.1 by acquiring, merging or consolidating with a Third Party (other than a Change of Control of Ovid) that [***];

provided that if [***], such Party shall, unless the other Party agrees to the contrary, within [***] of such acquisition, either [***]. For purposes of this Section 15.1, all references to “Product” in the definitions of “Development”, “Develop”, “Commercialize”, and “Commercialization” shall be deemed to refer to “Competing Product”. For the purposes of this Section 15.1, the [***] shall mean [***].

ARTICLE 16 – MISCELLANEOUS

16.1 Notice

. Any notice, request, or other communication permitted or required under this Agreement shall be in writing, shall refer specifically to this Agreement and shall be hand delivered or sent by a recognized overnight delivery service, costs prepaid, or by facsimile (with transmission confirmed), to the following addresses or to such other addresses as a Party may designate by written notice in accordance with this Section 16.1:

If to Takeda:

Takeda Pharmaceutical Company Limited
1-1, Doshomachi 4-chome,
Chuo-ku, Osaka 540-8645
Attention: General Counsel, Legal Department
Facsimile:

Copy to:

Takeda Pharmaceuticals U.S.A., Inc.
95 Hayden Ave
Lexington, MA 02421
Attention: Regional General Counsel
Facsimile:

If to Ovid:

Ovid Therapeutics
1460 Broadway, Suite 15021
New York, NY 10036
Attention: Chief Business and Financial Officer

Copy to:

Ovid Therapeutics
1460 Broadway, Suite 15021
New York, NY 10036
Attention: General and/or Patent Counsel

16.2 Designation of Affiliates

. Each Party may discharge any obligations and exercise any rights hereunder through delegation of its obligations or rights to any of its Affiliates. Each Party hereby guarantees the performance by its Affiliates of such Party’s obligations under this Agreement, and shall cause its Affiliates to comply with the provisions of this Agreement in connection with such performance. Any breach by a Party’s Affiliate of any of such Party’s obligations under this Agreement shall be deemed a breach by such Party, and the other Party may

proceed directly against such Party without any obligation to first proceed against such Party's Affiliate.

16.3 **Assignment**

. Ovid may not assign or transfer this Agreement or any rights or obligations hereunder without the prior written consent of Takeda, except that Ovid may make such an assignment without Takeda's consent (a) in connection with a Royalty Monetization Transaction (solely with respect to Ovid's right to receive the applicable payments), (b) in whole to an Affiliate of Ovid, and (c) in whole and with written notice to Takeda, in connection with a Change of Control of Ovid; *provided* that any assignment pursuant to clauses (b) or (c) must be to the assignee of all of the Ovid Intellectual Property. Takeda may assign this Agreement and its rights and obligations hereunder without Ovid's consent in connection with any transfer of this Agreement or any rights hereunder to any of its Affiliate or any Third Party. Any successor or assignee of rights and/or obligations permitted hereunder shall, in writing to the other Party, expressly assume performance of such rights and/or obligations. Any permitted assignment shall be binding on the successors of the assigning Party. Any assignment or attempted assignment by either Party in violation of the terms of this Section 16.3 shall be null, void and of no legal effect.

16.4 **Severability**

. If any one or more of the provisions of this Agreement is held to be invalid or unenforceable by any court of competent jurisdiction from which no appeal can be or is taken, the provision shall be considered severed from this Agreement and shall not serve to invalidate any remaining provisions hereof. The Parties shall make a good faith effort to replace any invalid or unenforceable provision with a valid and enforceable one such that the objectives contemplated by the Parties when entering this Agreement may be realized.

16.5 **English Language**

. This Agreement shall be written and executed in, and all other communications under or in connection with this Agreement, shall be in the English language. Any translation into any other language shall not be an official version thereof, and in the event of any conflict in interpretation between the English version and such translation, the English version shall control.

16.6 **Waiver and Non-Exclusion of Remedies**

. Any term or condition of this Agreement may be waived at any time by the Party that is entitled to the benefit thereof, but no such waiver shall be effective unless set forth in a written instrument duly executed by or on behalf of the Party waiving such term or condition. The waiver by either Party hereto of any right hereunder or of the failure to perform or of a breach by the other Party shall not be deemed a waiver of any other right hereunder or of any other breach or failure by such other Party whether of a similar nature or otherwise. The rights and remedies provided herein are cumulative and do not exclude any other right or remedy provided by Applicable Laws or otherwise available except as expressly set forth herein.

16.7 **Further Assurance**

(a) Each Party shall duly execute and deliver, or cause to be duly executed and delivered, such further instruments and do and cause to be done such further acts and things, including the filing of such assignments, agreements, documents, and instruments, as may be necessary or as the other Party may reasonably request in connection with this Agreement or to carry out more effectively the provisions and purposes hereof.

(b) Ovid and Takeda acknowledge that, after the Closing Date, the prosecution, enforcement, defense or maintenance of the Joint IP may require the provision of assistance from employees or independent contractors, as applicable, of Ovid or its Affiliates who were involved in invention, reduction to practice, research, development or engineering activities related to the Joint IP, including employees or independent contractors who were inventors or joint inventors thereof (the “Relevant Service Providers”). In the event Takeda wishes for such Relevant Service Providers to provide such assistance after the Closing Date, Takeda shall so request in a written notice to Ovid describing the requested assistance. Provided any such Relevant Service Providers is still employed by Takeda or its Affiliates at the time of such request, Ovid shall, or shall cause the Relevant Service Providers, or cause its applicable Affiliate to cause such Relevant Service Providers, to cooperate with Takeda. The nature of the consultations with the Relevant Service Providers shall be limited to items reasonably known or accessible to such Relevant Service Providers and reasonably necessary for the prosecution, enforcement, defense or maintenance of the relevant intellectual property rights, including elaboration on the details of the invention, the dates of conception, the extent of the involvement of joint inventors (if any), the review of Patent specification and Patent claims for accuracy and identification of prior art that may need to be disclosed to the Governmental Authority with which a given patent application has been filed (taking into account relevant disclosure obligations). Without limiting the foregoing, Takeda shall, and shall cause its relevant Affiliates to (i) use commercially reasonable efforts to take actions and execute and deliver documents that Ovid may reasonably request in connection with prosecution, enforcement, defense or maintenance of the Joint IP and perfection of Takeda’s title in, to and under the Joint IP (including, in each case, causing Relevant Service Providers to execute all affidavits, testimonies, declarations, oaths and other documents) and (ii) furnish to Takeda, at Takeda’s reasonable expense, such technical or other information about the inventions claimed in any Joint IP as may reasonably be requested by Takeda in order to further prosecute, defend, enforce or maintain the Joint IP.

16.8 Relationship of the Parties

. It is expressly agreed that Takeda, on the one hand, and Ovid, on the other hand, shall be independent contractors and that the relationship between the two Parties shall not constitute a partnership, joint venture or agency. Neither Takeda nor Ovid shall have the authority to make any statements, representations or commitments of any kind, or to take any action which shall be binding on the other, without the prior written consent of the other Party to do so. All persons employed by a Party shall be employees of that Party and not of the other Party and all costs and obligations incurred by reason of such employment shall be for the account and expense of such Party.

16.9 Counterparts

. This Agreement may be executed in two (2) or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. This Agreement may be executed by facsimile, .pdf or other electronically transmitted signatures and such signatures shall be deemed to bind each Party hereto as if they were the original signatures.

16.10 Construction

. Except where the context otherwise requires, wherever used, the singular shall include the plural, the plural the singular, and the use of any gender shall be applicable to all genders. Whenever this Agreement refers to a number of days, such number refers to calendar days. The captions of this Agreement are for the convenience of reference only and in no way define, describe, extend, or limit the scope or intent of this Agreement or the intent of any

provision contained in this Agreement. The terms “including,” “include,” or “includes” as used herein shall mean “including, but not limited to,” and shall not limit the generality of any description preceding such term. The language of this Agreement shall be deemed to be the language mutually chosen by the Parties and no rule of strict construction shall be applied against either Party hereto. Each Party represents that it has been represented by legal counsel in connection with this Agreement and acknowledges that it has participated in the drafting hereof. In interpreting and applying the terms and provisions of this Agreement, the Parties agree that no presumption will apply against the Party which drafted such terms and provision.

16.11 **Governing Laws**

. This Agreement was prepared in the English language, which language shall govern the interpretation of, and any dispute regarding, the terms of this Agreement. This Agreement and all disputes arising out of or related to this Agreement or any breach hereof shall be governed by and construed under the laws of the State of New York, without giving effect to any choice of law principles that would require the application of the laws of a different state.

16.12 **Entire Agreement**

. This Agreement, including the Exhibits hereto, sets forth the complete, final and exclusive agreement and all the covenants, promises, agreements, warranties, representations, conditions and understandings between the Parties hereto with respect to the subject matter hereof and supersedes, as of the Effective Date, all prior agreements and understandings between the Parties with respect to the subject matter hereof. There are no covenants, promises, agreements, warranties, representations, conditions or understandings, either oral or written, between the Parties other than as are set forth herein and therein. No subsequent alteration, amendment, change or addition to this Agreement shall be binding upon the Parties unless reduced to writing and signed by an authorized officer of each Party. In the event of any inconsistency between the body of this Agreement and the Exhibits to this Agreement, unless otherwise expressly stated to the contrary in such Exhibit, with express reference to the terms of this Agreement to be superseded, the terms contained in this Agreement shall control. In the event of any inconsistency between this Agreement and the Collaboration Agreement, the terms contained in this Agreement shall control.

16.13 **Headings**

. The headings of each Article and Section in this Agreement have been inserted for convenience of reference only and are not intended to limit or expand on the meaning of the language contained in the particular Article or Section.

SIGNATURE PAGE FOLLOWS

The Parties have caused this Agreement to be executed by their respective officers thereunto duly authorized, in each case as of the date first written above.

TAKEDA PHARMACEUTICAL COMPANY LIMITED

By: /s/ Kentaro Kume
Name: Kentaro Kume
Title: Head of Strategy & Operations/APAC
Center for External Innovation

OVID THERAPEUTICS INC.

By: /s/ Jeremy Levin
Name: Jeremy Levin
Title: Chairman and CEO

[Signature Page to Royalty, License and Termination Agreement]

EXHIBIT A
CHEMICAL COMPOUND

[***]

EXHIBIT B
PRODUCT INDS

EXHIBIT C
OVID PATENTS

[***]

EXHIBIT D
TAKEDA PATENTS

[***]

EXHIBIT E
OVID INTELLECTUAL PROPERTY

[***]

EXHIBIT F
PRESS RELEASE

[See attached]

**CERTIFICATION PURSUANT TO
RULES 13a-14(a) AND 15d-14(a) UNDER THE SECURITIES EXCHANGE ACT OF 1934,
AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Jeremy M. Levin, certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of Ovid Therapeutics 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(s) 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 (the registrant's fourth fiscal quarter in the case of an annual report) 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(s) 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 (or persons performing the equivalent functions):
 - (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.

Date: May 13, 2021

By: /s/ Jeremy M. Levin
Jeremy M. Levin
Chief Executive Officer
(Principal Executive Officer)

**CERTIFICATION PURSUANT TO
RULES 13a-14(a) AND 15d-14(a) UNDER THE SECURITIES EXCHANGE ACT OF 1934,
AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Timothy Daly, certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of Ovid Therapeutics 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(s) 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 (the registrant's fourth fiscal quarter in the case of an annual report) 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(s) 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 (or persons performing the equivalent functions):
 - (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.

Date: May 13, 2021

By: /s/ Timothy Daly
Timothy Daly
Executive Vice President, Finance and Corporate
Controller
(Principal Financial Officer and Principal Accounting
Officer)

**CERTIFICATION PURSUANT TO
18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

Pursuant to the requirement set forth in Rule 13a-14(b) of the Securities Exchange Act of 1934, as amended, (the "Exchange Act") and Section 1350 of Chapter 63 of Title 18 of the United States Code (18 U.S.C. §1350), Jeremy M. Levin, Chief Executive Officer of Ovid Therapeutics Inc. (the "Company"), and Timothy Daly, Executive Vice President, Finance and Corporate Controller of the Company, each hereby certifies that, to the best of his knowledge:

1. The Company's Quarterly Report on Form 10-Q for the period ended March 31, 2021, to which this Certification is attached as Exhibit 32.1 (the "Periodic Report"), fully complies with the requirements of Section 13(a) or Section 15(d) of the Exchange Act; and
2. The information contained in the Periodic Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Dated: May 13, 2021

/s/ Jeremy M. Levin

Jeremy M. Levin
Chief Executive Officer
(Principal Executive Officer)

/s/ Timothy Daly

Timothy Daly
Executive Vice President, Finance and Corporate Controller
(Principal Financial and Accounting Officer)