

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

FORM 10-Q

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

For the quarterly period ended **September 30, 2019**

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: **000- 55347**

**Relmada Therapeutics, Inc.**

(Exact name of registrant as specified in its charter)

**Nevada**

(State or Other Jurisdiction of  
Incorporation or Organization)

**45-5401931**

(I.R.S. Employer  
Identification No.)

**880 Third Avenue, 12th Floor  
New York, NY**

(Address of Principal Executive Offices)

**10022**

(Zip Code)

**(646) 876-3459**

(Registrant's Telephone Number, Including Area Code)

N/A

(Former Name, Former Address and Former Fiscal Year, if Changed Since Last Report)

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

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
<b>Common stock, \$0.001 par value per share</b>	<b>RLMD</b>	<b>The NASDAQ Stock Market LLC</b>

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 such filing requirements for the past 90 days.  
 Yes  No

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted and posted 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 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 November 8, 2019, there were 10,275,339 shares of common stock, \$0.001 par value per share, outstanding.

**Relmada Therapeutics, Inc.**  
**Index**

	<u>Page Number</u>
<b><u>PART I - FINANCIAL INFORMATION</u></b>	
Item 1. <a href="#">Unaudited Consolidated Financial Statements</a>	1
<a href="#">Unaudited Consolidated Balance Sheets as of September 30, 2019 and June 30, 2019</a>	1
<a href="#">Unaudited Consolidated Statements of Operations for the Three Months Ended September 30, 2019 and 2018</a>	2
<a href="#">Unaudited Consolidated Statements of Cash Flows for the Three Months Ended September 30, 2019 and 2018</a>	3
<a href="#">Unaudited Consolidated Statements of Stockholders' Equity (Deficit) for the Three Months Ended September 30, 2019 and 2018</a>	4
<a href="#">Notes to Unaudited Consolidated Financial Statements</a>	5
Item 2. <a href="#">Management's Discussion and Analysis of Financial Condition and Results of Operation</a>	17
Item 3. <a href="#">Quantitative and Qualitative Disclosures About Market Risk</a>	27
Item 4. <a href="#">Controls and Procedures</a>	28
<b><u>PART II - OTHER INFORMATION</u></b>	
Item 1. <a href="#">Legal Proceedings</a>	29
Item 1A. <a href="#">Risk Factors</a>	29
Item 2. <a href="#">Unregistered Sales of Equity Securities and Use of Proceeds</a>	29
Item 3. <a href="#">Defaults Upon Senior Securities</a>	30
Item 4. <a href="#">Mine Safety Disclosures</a>	30
Item 5. <a href="#">Other Information</a>	30
Item 6. <a href="#">Exhibits</a>	30
<b><u>SIGNATURES</u></b>	31

PART I - FINANCIAL INFORMATION

ITEM 1. FINANCIAL STATEMENTS

**Relmada Therapeutics, Inc.**  
**Consolidated Balance Sheets**  
**(Unaudited)**

	<u>September 30,</u> 2019	<u>June 30,</u> 2019
<b>Assets</b>		
Current assets:		
Cash and cash equivalents	\$ 7,849,873	\$ 9,216,554
Other receivable	-	176,980
Lease payments receivable – short-term	71,581	70,102
Prepaid expenses	376,902	520,745
<b>Total current assets</b>	<b>8,298,356</b>	<b>9,984,381</b>
Fixed assets, net of accumulated depreciation	6,110	7,210
Other assets	25,000	25,000
Lease payments receivable – long-term	184,683	203,142
<b>Total assets</b>	<b>\$ 8,514,149</b>	<b>\$ 10,219,733</b>
<b>Liabilities and Stockholders' Equity</b>		
Current liabilities:		
Accounts payable	\$ 1,266,548	\$ 924,359
Accrued expenses	1,014,390	1,317,855
Notes payable	255,925	364,204
<b>Total liabilities</b>	<b>2,536,863</b>	<b>2,606,418</b>
Commitments and contingencies		
Stockholders' equity:		
Preferred stock, \$0.001 par value, 200,000,000 shares authorized, no shares issued and outstanding	-	-
Class A convertible preferred stock, \$0.001 par value, 3,500,000 shares authorized, no shares issued and outstanding	-	-
Common stock, \$0.001 par value, 50,000,000 shares authorized, 9,937,608 and 9,744,643 shares issued and outstanding, respectively	9,937	9,744
Additional paid-in capital	121,299,210	119,265,938
Accumulated deficit	(115,331,861)	(111,662,367)
<b>Total stockholders' equity</b>	<b>\$ 5,977,286</b>	<b>\$ 7,613,315</b>
<b>Total liabilities and stockholders' equity</b>	<b>\$ 8,514,149</b>	<b>\$ 10,219,733</b>

The accompanying notes are an integral part of these unaudited consolidated financial statements.

**Relmada Therapeutics, Inc.**  
**Consolidated Statements of Operations**  
**(Unaudited)**

	Three Months Ended September 30,	
	2019	2018
Operating expenses:		
Research and development	\$ 1,887,367	\$ 1,421,482
General and administrative	1,820,043	989,748
Total operating expenses	<u>3,707,410</u>	<u>2,411,230</u>
Loss from operations	<u>(3,707,410)</u>	<u>(2,411,230)</u>
Other income (expenses):		
Change in fair value of derivative liabilities	-	(318,541)
Interest income (expense), net	37,916	(650,322)
Total other income (expenses)	<u>37,916</u>	<u>(968,863)</u>
Net loss	<u>\$ (3,669,494)</u>	<u>\$ (3,380,093)</u>
Net loss per common share – basic and diluted	<u>\$ (0.38)</u>	<u>\$ (1.08)</u>
Weighted average number of common shares outstanding – basic and diluted	<u>9,761,188</u>	<u>3,137,468</u>

The accompanying notes are an integral part of these unaudited consolidated financial statements.

**Relmada Therapeutics, Inc.**  
**Consolidated Statements of Cash Flows**  
(Unaudited)

	Three Months Ended September 30,	
	2019	2018
<b>Cash flows from operating activities</b>		
Net loss	\$ (3,669,494)	\$ (3,380,093)
Adjustments to reconcile net loss to net cash used in operating activities:		
Depreciation expense	1,100	1,405
Stock-based compensation	757,716	152,800
Amortization of deferred financing costs	-	536,520
Change in fair value of derivative liabilities	-	318,541
Changes in operating assets and liabilities:		
Other receivable	176,980	7,617
Lease payment receivable	16,980	15,620
Prepaid expenses	143,843	115,983
Accounts payable	342,189	253,918
Accrued expenses	(303,465)	306,706
Net cash used in operating activities	(2,534,151)	(1,670,983)
<b>Cash flows from financing activities</b>		
Principal payments of notes payable	(108,279)	(84,966)
Proceeds from issuance of common stock	825,749	
Warrants exercised for common stock	450,000	
Units funds received	-	404,500
Net cash provided by financing activities	1,167,470	319,534
Net decrease in cash and cash equivalents	(1,366,681)	(1,351,449)
<b>Cash and cash equivalents at beginning of the period</b>	9,216,554	2,238,943
<b>Cash and cash equivalents at end of the period</b>	\$ 7,849,873	\$ 887,494
Supplemental disclosure of cash flow information:		
Cash paid during the period for:		
Income taxes	\$ -	\$ -
Interest	\$ 2,535	\$ 1,509

The accompanying notes are an integral part of these unaudited consolidated financial statements.

**Relmada Therapeutics, Inc.**  
**Consolidated Statements of Stockholders' Equity (Deficit)**  
(Unaudited)

<b>Three months ended September 30, 2019</b>					
	Common Stock		Additional	Accumulated	Total
	Shares	Amount	Paid-in	Deficit	Stockholders'
			Capital		Equity
					(Deficit)
<b>Balances at July 1, 2019</b>	<b>9,744,643</b>	<b>\$ 9,744</b>	<b>\$ 119,265,938</b>	<b>\$ (111,662,367)</b>	<b>\$ 7,613,315</b>
Stock-based compensation	-	-	757,716	-	757,716
Purchase of common stock	117,965	118	825,631	-	825,749
Warrants exercised	75,000	75	449,925	-	450,000
Net loss	-	-	-	(3,669,494)	(3,669,494)
<b>Balances at September 30, 2019</b>	<b>9,937,608</b>	<b>\$ 9,937</b>	<b>\$ 121,299,210</b>	<b>\$ (115,331,861)</b>	<b>\$ 5,977,286</b>
<b>Three months ended September 30, 2018</b>					
	Common Stock		Additional	Accumulated	Total
	Shares	Amount	Paid-in	Deficit	Stockholders'
			Capital		Equity
					(Deficit)
<b>Balances as at July 1, 2018</b>	<b>3,137,468</b>	<b>\$ 3,137</b>	<b>\$ 88,828,094</b>	<b>\$ (94,344,307)</b>	<b>\$ (5,513,076)</b>
Cumulative effect of Write-off of Derivative	-	-	-	-	-
Liabilities under ASU 2017-11	-	-	59,397	-	59,397
<b>Adjusted Balances as at July 1, 2018</b>	<b>3,137,468</b>	<b>3,137</b>	<b>88,887,491</b>	<b>(94,344,307)</b>	<b>(5,453,679)</b>
Stock-based compensation	-	-	152,801	-	152,801
Net loss	-	-	-	(3,380,093)	(3,380,093)
<b>Balances at September 30, 2018</b>	<b>3,137,468</b>	<b>\$ 3,137</b>	<b>\$ 89,040,292</b>	<b>\$ (97,724,400)</b>	<b>\$ (8,680,971)</b>

The accompanying notes are an integral part of these unaudited consolidated financial statements.

**Relmada Therapeutics, Inc.**  
**Notes to Unaudited Consolidated Financial Statements**

**NOTE 1 - BUSINESS**

Relmada Therapeutics, Inc. (Relmada or the Company) (a Nevada corporation), is a clinical-stage, publicly traded biotechnology company focused on the development of d-methadone (dextromethadone, REL-1017), an N-methyl-D-aspartate (NMDA) receptor antagonist. d-methadone is a new chemical entity that potentially addresses areas of high unmet medical need in the treatment of central nervous system (CNS) diseases and other disorders.

Our lead product candidate, d-methadone, is a New Chemical Entity (NCE) being developed as a rapidly acting, oral agent for the treatment of depression and other potential indications. We have completed Phase 1 single and multiple ascending dose studies. A Phase 2 study in major depressive disorder is ongoing, with first patient dosed in June 2018 and last patient completed in July 2019.

In addition to the normal risks associated with a new business venture, there can be no assurance that the Company's research and development will be successfully completed or that any product will be approved or commercially viable. The Company is subject to risks common to companies in the biotechnology industry including, but not limited to, dependence on collaborative arrangements, development by the Company or its competitors of new technological innovations, dependence on key personnel, protection of proprietary technology, and compliance with the FDA and other governmental regulations and approval requirements.

**NOTE 2 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES**

**Basis of Presentation**

The accompanying unaudited consolidated financial statements and related notes have been prepared in accordance with accounting principles generally accepted in the United States of America (U.S. GAAP) for interim unaudited consolidated financial information. Accordingly, they do not include all of the information and footnotes required by U.S. GAAP for complete consolidated financial statements. The unaudited consolidated financial statements reflect all adjustments (consisting of normal recurring adjustments) which are, in the opinion of management, necessary for a fair statement of the results for the interim periods presented. Interim results are not necessarily indicative of the results for the full year. These unaudited consolidated financial statements should be read in conjunction with the audited consolidated financial statements of the Company for the year ended June 30, 2019 and notes thereto contained in the Company's Annual Report on Form 10-K.

On September 26, 2019, the Company's Board of Directors approved a 1-to-4 reverse split of the Common Stock, which was effective on the NASDAQ Capital Market on September 30, 2019. As a result of the reverse stock split, every 4 shares of issued and outstanding common stock were converted into 1 share of issued and outstanding common stock, with all fractional shares rounded up to the nearest whole share, and the Company's authorized share of common stock were reduced from 200,000,000 to 50,000,000 shares. All share and per share amounts have been retroactively restated to reflect this reverse stock split.

**Liquidity**

As shown in the accompanying financial statements, the Company incurred negative operating cash flows of \$2,534,151 for the quarter ended September 30, 2019 and has an accumulated deficit of \$115,331,861 from inception through September 30, 2019.

Relmada has funded its past operations through equity raises and most recently in the year ended June 30, 2019. Relmada raised net proceeds from the sale of common stock and warrants of \$17,760,635. Further, the Company was able to reduce its debt obligations during the year ended June 30, 2019 by converting \$8,030,365 of promissory notes and accrued interest into common stock. The Company also raised an additional \$1,275,749 during the three months ended September 30, 2019 from the sale of common stock and warrant exercises.

**Relmada Therapeutics, Inc.**  
**Notes to Unaudited Consolidated Financial Statements**

**NOTE 2 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (continued)**

Management believes that due to the recent equity raises completed and the current cash position on its balance sheet, it has obtained sufficient funding to continue ongoing operations for at least the next twelve months from the issuance of these consolidated quarterly financial statements. Since September 30, 2019 and to date, the Company has received approximately \$2,017,000 in cash from exercises of outstanding warrants, which resulted in the Company having approximately \$8,010,000 in cash and cash equivalents at November 8, 2019. Based on its budgeted cash flow requirements, the Company believes these funds are sufficient to fund its ongoing operations for at least one year after the issuance of these consolidated quarterly financial statements. The Company expects that the cash burn rate for the 12 months ended December 31, 2020, will be between \$5-6 million, which includes approximately \$2 million of discretionary research and development (R&D) spending, as the data analysis on the Phase 2a clinical trial is completed and the planning and preparation for the next clinical trial is conducted. Regardless of the results of any ongoing clinical trial, we have control over our expenditures and have the ability to adjust spending accordingly based on the budgeted cash flow requirements developed and the excess cash on hand.

Given the positive results of the Company's Phase 2 clinical trial, management will evaluate the size and scope of any subsequent trials that will affect the timing of additional financings through public or private sales of equity or debt securities or from bank or other loans or through strategic collaboration and/or licensing agreements. Any such expenditures related to any subsequent trials will not be incurred until such additional financing is raised. Further, additional financing related to subsequent trials does not affect the Company's conclusion that based on the cash on hand and the budgeted cash flow requirements, the Company has sufficient funds to maintain operations for the next twelve months from the issuance of these consolidated quarterly financial statements.

**Principles of Consolidation**

The unaudited consolidated financial statements include the Company's accounts and those of the Company's wholly-owned subsidiary. All significant intercompany accounts and transactions have been eliminated in consolidation.

**Use of Estimates**

The preparation of financial statements in conformity with U.S. 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 revenues and expenses for the reporting period. Actual results could differ from those estimates. The significant estimates are the valuation of derivative liabilities, stock-based compensation expenses and recorded amounts related to income taxes.

**Relmada Therapeutics, Inc.**  
**Notes to Unaudited Consolidated Financial Statements**

**NOTE 2 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (continued)**

**Cash and Cash Equivalents**

The Company considers cash deposits and all highly liquid investments with a maturity of three months or less when purchased to be cash equivalents. The Company's cash deposits are held at two high-credit-quality financial institutions. The Company's cash deposits at these institutions exceed federally insured limits.

**Patents**

Costs related to filing and pursuing patent applications are recorded as general and administrative expense and expensed as incurred since recoverability of such expenditures is uncertain.

**Fixed Assets**

Fixed assets are stated at cost less accumulated depreciation. Fixed assets are comprised of computers and software, leasehold improvements, and furniture and fixtures. Depreciation is calculated using the straight-line method over the estimated useful life of the assets. Computers and software have an estimated useful life of three years. Furniture and fixtures have an estimated useful life of approximately seven years.

**Fair Value of Financial Instruments**

The Company's financial instruments primarily include cash, receivables and accounts payable. Due to the short-term nature of cash, receivables and accounts payable the carrying amounts of these assets and liabilities approximate their fair value.

Fair value is defined as the price that would be received to sell an asset, or paid to transfer a liability, in an orderly transaction between market participants. A fair value hierarchy has been established for valuation inputs that gives the highest priority to quoted prices in active markets for identical assets or liabilities and the lowest priority to unobservable inputs. The fair value hierarchy is as follows:

Level 1 Inputs - 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 2 Inputs - Inputs other than quoted prices included in Level 1 that are observable for the asset or liability, either directly or indirectly. These might include quoted prices for similar assets or liabilities in active markets, quoted prices for identical or similar assets or liabilities in markets that are not active, inputs other than quoted prices that are observable for the asset or liability (such as interest rates, volatilities, prepayment speeds, credit risks, etc.) or inputs that are derived principally from or corroborated by market data by correlation or other means.

Level 3 Inputs - Prices or valuation techniques that require inputs that are both significant to the fair value measurement and unobservable (supported by little or no market activity).

**Fair Value on a Recurring Basis**

As required by Accounting Standard Codification (ASC) Topic No. 820 - 10 *Fair Value Measurement*, financial assets and liabilities are classified based on the lowest level of input that is significant to the fair value measurement. The Company's assessment of the significance of a particular input to the fair value measurement requires judgment and may affect the valuation of the fair value of assets and liabilities and their placement within the fair value hierarchy levels. The estimated fair value of the derivative instruments resulting from equity offerings in May 2014 and June 2014 have a down-round protection provision that was calculated with the Black Scholes option pricing model. Sensitivity analysis for the Black-Scholes has many inputs and is subject to judgement which includes volatility. Volatility is based upon the Company's historical volatility and the expected term is based upon the expiration date of the warrants.

The Company's financial liabilities accounted for at fair value were all converted to equity during the year ended June 30, 2019 so that there were no financial liabilities accounted for at fair value, See Note 7.

**Relmada Therapeutics, Inc.**  
**Notes to Unaudited Consolidated Financial Statements**

**NOTE 2 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (continued)**

**Income Taxes**

The Company accounts for income taxes using the asset and liability method. Accordingly, deferred tax assets and liabilities are recognized for the future tax consequences attributable to differences between financial statement carrying amounts of existing assets and liabilities and their respective tax bases. Deferred tax assets and liabilities are measured using enacted tax rates expected to apply to taxable income in the years in which those temporary differences are expected to be recovered or settled. The effect on deferred tax assets and liabilities of a change in the tax rate is recognized in income or expense in the period that the change is effective. Tax benefits are recognized when it is probable that the deduction will be sustained. A valuation allowance is established when it is more likely than not that all or a portion of a deferred tax asset will either expire before the Company is able to realize the benefit, or that future deductibility is uncertain. As of September 30, 2019 and June 30, 2019, the Company had recognized a valuation allowance to the full extent of the Company's net deferred tax assets since the likelihood of realization of the benefit does not meet the more likely than not threshold.

The Company files a U.S. Federal income tax return and, various state returns. Uncertain tax positions taken on the Company's tax returns will be accounted for as liabilities for unrecognized tax benefits. The Company will recognize interest and penalties, if any, related to unrecognized tax benefits in general and administrative expenses in the statements of operations. There were no liabilities recorded for uncertain tax positions at September 30, 2019 and June 30, 2019. The open tax years, subject to potential examination by the applicable taxing authority, for the Company are from June 30, 2016 through June 30, 2019.

**Research and Development**

Research and development costs primarily consist of research contracts for the advancement of product development, salaries and benefits, stock-based compensation, and consultants. The Company expenses all research and development costs in the period incurred. The Company makes an estimate of costs in relation to clinical study contracts. The Company analyzes the progress of studies, including the progress of clinical studies and phases, invoices received and contracted costs when evaluating the adequacy of the amount expensed and the related prepaid asset and accrued liability.

**Stock-Based Compensation**

The Company measures the cost of employee services received in exchange for an award of equity instruments based on the grant-date fair value of the award. That cost is recognized over the period during which an employee is required to provide service in exchange for the award - the requisite service period. The grant-date fair value of employee share options is estimated using the Black-Scholes option pricing model adjusted for the unique characteristics of those instruments. Compensation expense for warrants granted to non-employees is determined by the fair value of the consideration received or the fair value of the equity instruments issued, whichever is more reliably measured, and is recognized over the service period. The expense is subsequently adjusted to fair value at the end of each reporting period until such warrants vest, and the fair value of such instruments, as adjusted, is expensed over the related vesting period. Adjustments to fair value at each reporting date may result in income or expense, depending upon the estimate of fair value and the amount of expense recorded prior to the adjustment. The Company reviews its agreements and the future performance obligation with respect to the unvested warrants for its vendors or consultants. When appropriate, the Company will expense the unvested warrants at the time when management deems the service obligation for future services has ceased.

**Net Loss per Common Share**

Basic net loss per common share attributable to common stockholders is calculated by dividing the net loss attributable to common stockholders by the weighted-average number of common shares outstanding for the period, without consideration for common stock equivalents. Diluted net loss per common share attributable to common stockholders is computed by dividing the net loss attributable to common stockholders by the weighted-average number of common share equivalents outstanding for the period determined using the treasury-stock method. Dilutive common stock equivalents are comprised of Class A convertible preferred stock, Series A preferred stock, restricted stock awards, options and warrants to purchase common stock. For all periods presented, there is no difference in the number of shares used to calculate basic and diluted shares outstanding due to the Company's net loss position.

For the three months ended September 30, 2019 and 2018, the following potentially dilutive securities were excluded from the computation of diluted net loss per share, as the inclusion of such shares would be anti-dilutive:

	Three months ended	
	September 30, 2019	September 30, 2018
Stock options	2,373,314	760,810
Common stock warrants	4,308,762	2,451,882
Total	<u>6,682,076</u>	<u>3,212,692</u>

**Relmada Therapeutics, Inc.**  
**Notes to Unaudited Consolidated Financial Statements**

**NOTE 2 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (continued)**

**Recent Accounting Pronouncements**

In February 2016, the Financial Accounting Standards Board (FASB) issued Accounting Standards Update (ASU) 2016-02, *Leases (Topic 842)*, whereby lessees will be required to recognize for all leases at the commencement date a lease liability, which is a lessee's obligation to make lease payments arising from a lease, measured on a discounted basis; and a right-of-use asset, which is an asset that represents the lessee's right to use, or control the use of, a specified asset for the lease term. A modified retrospective transition approach is required, applying the new standard to all leases existing at the date of initial application. An entity may choose to use either (1) its effective date or (2) the beginning of the earliest comparative period presented in the financial statements as its date of initial application. If an entity chooses the second option, the transition requirements for existing leases also apply to leases entered into between the date of initial application and the effective date. The entity must also recast its comparative period financial statement and provide the disclosures required by the new standard for the comparative periods. The Company adopted the new standard on July 1, 2019 and used the effective date as our date of initial application. Consequently, financial information will not be updated and the disclosures required under the new standard will not be provided for dates and periods before July 1, 2019. The adoption of this standard did not have any impact on our unaudited consolidated financial statements.

In July 2017, the FASB issued ASU No. 2017-11, *Earnings Per Share (Topic 260); Distinguishing Liabilities from Equity (Topic 480); Derivatives and Hedging (Topic 815): (Part I) Accounting for Certain Financial Instruments with Down Round Features*. These amendments simplify the accounting for certain financial instruments with down round features. The amendments require companies to disregard the down round feature when assessing whether the instrument is indexed to its own stock, for purposes of determining liability or equity classification. The Company elected to early adopt ASU 2017-11 effective October 1, 2018. As a result, the Company reversed \$59,397 of derivative liabilities recorded on the Company's books, as of July 1, 2018, into equity to reflect the results of this adoption as of the beginning of the fiscal year as required by this standard.

**NOTE 3 - PREPAID EXPENSES**

Prepaid expenses consisted of the following (rounded to nearest \$00):

	September 30, 2019	June 30, 2019
Insurance	\$ 328,000	\$ 451,500
Legal	33,000	7,500
Other	15,900	61,800
Total	<u>\$ 376,900</u>	<u>\$ 520,800</u>

**NOTE 4 - FIXED ASSETS**

Fixed assets, net of accumulated depreciation, consisted of the following (rounded to nearest \$00):

	Useful lives	September 30, 2019	June 30, 2019
Computer and Software	3 years	\$ 16,700	\$ 16,700
Less: accumulated depreciation		(10,600)	(9,500)
Fixed Assets		<u>\$ 6,100</u>	<u>\$ 7,200</u>

**Relmada Therapeutics, Inc.**  
**Notes to Unaudited Consolidated Financial Statements**

**NOTE 5 - ACCRUED EXPENSES**

Accrued expenses consisted of the following (rounded to nearest \$00):

	September 30, 2019	June 30, 2019
Research and development	\$ 232,300	\$ 563,400
Professional fees	87,300	98,400
Accrued vacation	129,600	96,700
Legal Settlement	500,000	500,000
Other	65,200	59,400
Total	<u>\$ 1,014,400</u>	<u>\$ 1,317,900</u>

**NOTE 6 - NOTES PAYABLE**

In June 2019, the Company entered into a note for approximately \$364,200 in conjunction with a renewal of its director and officer insurance policy. The interest rate was 3.09% per annum. The note matures on April 9, 2020.

At September 30, 2019 and June 30, 2019, the note payable outstanding balances were approximately \$255,900 and \$364,200, respectively.

**NOTE 7 - DERIVATIVE LIABILITIES**

ASC Topic No. 815 - *Derivatives and Hedging* provides guidance on determining what types of instruments or embedded features in an instrument issued by a reporting entity can be considered indexed to its own stock for the purpose of evaluating the first criteria of the scope exception in the pronouncement on accounting for derivatives. These requirements can affect the accounting for warrants and convertible preferred instruments issued by the Company.

At September 30, 2018, the Company had warrants resulting from equity offerings in May 2014 and June 2014 that do not have fixed settlement provisions because their exercise prices may be lowered if the Company issues securities at lower prices in the future, the Company concluded that the instruments were not indexed to the Company's stock.

Until September 30, 2018, the Company followed ASC Topic No. 815 and treated the warrants as derivative liabilities. In determining the fair value of the derivative liabilities, the Company used the Black-Scholes option pricing model at September 30, 2018.

As noted in Note 2, the Company elected to early adopt ASU 2017-11 and reversed the derivative liability into equity. The warrants balance of \$59,397 was reversed to equity effective July 1, 2018.

**Relmada Therapeutics, Inc.**  
**Notes to Unaudited Consolidated Financial Statements**

**NOTE 7 - DERIVATIVE LIABILITIES (continued)**

Until October 18, 2018, the Company had promissory notes with a redemption feature which is not clearly and closely related to the host instrument and therefore is considered an embedded derivative which was bifurcated and recorded as a derivative liability. In determining the fair value of the derivative liabilities, the Company used the Monte-Carlo pricing model. The assumptions used in the valuation model considers the probability of redemption, the length of time to maturity and value of the redemption feature.

On October 12 and 18, 2018, the Company conducted closing on its private placement of securities. As a result of these closings, the outstanding promissory notes converted into common stock. The redemption feature associated with the promissory notes was valued on October 18, 2018 using the Black-Scholes model. The change in the value of the derivative liabilities between July 1, 2018 and the October 18, 2018 was recorded in income. The notes were converted to common stock on October 18, 2018.

The Company had no financial liabilities accounted for at fair value on a recurring basis as of September 30, 2019 and June 30, 2019.

The following table sets forth a reconciliation of changes in the fair value of financial liabilities classified as level 3 in the fair value hierarchy for the three months ended September 30, 2019 and 2018:

	Significant Unobservable Inputs (Level 3)	
	September 30, 2019	September 30, 2018
Beginning balance	\$ -	\$ 4,194,634
Fair value of derivative liabilities for redemption feature of promissory notes payable	-	289,670
Change in fair value of derivative liabilities – warrants	-	28,871
Ending balance	<u>\$ -</u>	<u>\$ 4,513,175</u>

**Relmada Therapeutics, Inc.**  
**Notes to Unaudited Consolidated Financial Statements**

**NOTE 8 - STOCKHOLDERS' EQUITY**

**Common Stock**

During the three months ended September 30, 2019, the Company did a private placement of 117,965 of common stock at \$7.00 per share for proceeds of \$825,749 (before expenses of the offering).

**Options and Warrants**

In December 2014, the Board of Directors adopted and the shareholders approved Relmada's 2014 Stock Option and Equity Incentive Plan, as amended (the Plan), which allows for the granting of common stock awards, stock appreciation rights, and incentive and nonqualified stock options to purchase shares of the Company's common stock to designated employees, non-employee directors, and consultants and advisors. The Plan allowed for the granting of 2,652,942 options or stock awards.

Stock options are exercisable generally for a period of 10 years from the date of grant and generally vest over four years. As of September 30, 2019, 279,630 shares were available for future grants under the Plan.

As of September 30, 2019, no stock appreciation rights have been issued.

The Company utilizes the Black-Scholes option pricing model to estimate the fair value of stock options and warrants. The price of common stock prior to the Company being public was determined from a third party valuation. The risk-free interest rate assumptions were based upon the observed interest rates appropriate for the expected term of the equity instruments. The expected dividend yield was assumed to be zero as the Company has not paid any dividends since its inception and does not anticipate paying dividends in the foreseeable future. The expected volatility was based on historical volatility. The Company routinely reviews its calculation of volatility changes in future volatility, the Company's life cycle, its peer group, and other factors.

The Company uses the simplified method for share-based compensation to estimate the expected term for employee option awards for share-based compensation in its option-pricing model. Prior to the adoption of ASU 2018-07 on October 1, 2018, the Company uses the contractual term for non-employee options to estimate the expected term, for share-based compensation in its option-pricing model.

On July 29, 2019, the Company awarded a total of 862,500 options to its chief executive officer, chief medical officer and board members with exercise price of \$8.80 and a 10-year term vesting over 4-year period. The options have an aggregate fair value of \$6.1 million calculated using the Black-Scholes option-pricing model. Variables used in the Black-Scholes option-pricing model include: (1) discount rate of 1.89% (2) expected life of 6.25 years, (3) expected volatility of 101.2%, and (4) zero expected dividends.

On July 29, 2019, the Company awarded a total of 12,500 options to a consultant with exercise price of \$8.80 and a 10-year term and 100% vested upon grant date. The options have an aggregate fair value of \$81,100 calculated using the Black-Scholes option-pricing model. Variables used in the Black-Scholes option-pricing model include: (1) discount rate of 1.84% (2) expected life of 5 years, (3) expected volatility of 97%, and (4) zero expected dividends.

On July 29, 2019, the Company granted its chief financial officer options to purchase a total of 25,000 shares of common stock. The options have a ten-year term and have an exercise price of \$8.80 per share. 25,000 options vest upon the Company up listing to the NASDAQ as long as the employee maintains their employment with the company through January 31, 2020. During the quarter ended September 30, 2019 the company recorded approximately \$57,000 of compensation expense as management believes that the uplisting to NASDAQ is probable of occurring. The fair value of the options on the grant date were \$6.74 per share using the Black-Scholes Option pricing model.

**Relmada Therapeutics, Inc.**  
**Notes to Unaudited Consolidated Financial Statements**

**NOTE 8 - STOCKHOLDERS' EQUITY (continued)**

At September 30, 2019, the Company has unrecognized stock-based compensation expense of approximately \$9,046,000 related to unvested stock options over the weighted average remaining service period of 3.48 years.

Options

A summary of the changes in options during the three months ended September 30, 2019 is as follows:

	Number of Options	Weighted Average Exercise Price For Share	Weighted Average Remaining Contractual Term (Years)	Aggregate Intrinsic Value
Outstanding and expected to vest at June 30, 2019	1,473,314	\$ 5.18	8.6	\$ 4,668,153
Granted	900,000	\$ 8.80	9.8	\$ 1,305,000
Outstanding and expected to vest at September 30, 2019	<u>2,373,314</u>	<u>\$ 6.55</u>	<u>8.9</u>	<u>\$ 9,864,756</u>
Options exercisable at September 30, 2019	<u>547,481</u>	<u>\$ 6.93</u>	<u>7.7</u>	<u>\$ 2,899,818</u>

Warrants

A summary of the changes in outstanding warrants during the three months ended September 30, 2019 is as follows:

	Number of Shares	Weighted Average Exercise Price Per Share
Outstanding and vested at June 30, 2019	4,429,982	\$ 7.12
Issued	6,250	8.80
Exercised	(75,000)	6.00
Forfeited	(52,470)	16.00
Outstanding and vested at September 30, 2019	<u>4,308,762</u>	<u>\$ 7.03</u>

**Relmada Therapeutics, Inc.**  
**Notes to Unaudited Consolidated Financial Statements**

**NOTE 8 - STOCKHOLDERS' EQUITY (continued)**

On August 1, 2019, the Company granted 6,250 warrants to a contractor with exercise price of \$8.80, a 10-year term and immediate vesting. The warrants have an aggregated fair value of \$41,386 that was calculated using the Black-Scholes option-pricing model. Variables used in the Black-Scholes option-pricing model include: (1) discount rate of 1.68% (2) expected life of 5 years, (3) expected volatility of 101.1%, and (4) zero expected dividends.

At September 30, 2019 and June 30, 2019, the aggregate intrinsic value of warrants vested and outstanding was approximately \$14,531,000 and \$4,796,000, respectively.

The following summarizes the components of stock-based compensation expense which includes stock options and warrants in the unaudited consolidated statements of operations for the three months ended September 30, 2019 and 2018 (rounded to nearest \$00):

	Three Months Ended September 30, 2019	Three Months Ended September 30, 2018
Research and development	\$ 73,000	\$ 13,400
General and administrative	684,700	139,400
Total	<u>\$ 757,700</u>	<u>\$ 152,800</u>

**NOTE 9 - RELATED PARTY TRANSACTIONS**

There were no material related party transactions.

**NOTE 10 - COMMITMENTS AND CONTINGENCIES**

**License Agreements**

Wonpung

On August 20, 2007, the Company entered into a License Development and Commercialization Agreement with Wonpung Mulsan Co, a shareholder of the Company. Wonpung has exclusive territorial rights in countries it selects in Asia to market up to two drugs the Company is currently developing and a right of first refusal (ROFR) for up to an additional five drugs that the Company may develop in the future as defined in more detail in the license agreement.

The Company received an upfront license fee of \$1,500,000 and will earn royalties of up to 12% of net sales for up to two licensed products it is currently developing. The licensing terms for the ROFR products are subject to future negotiations and binding arbitration. The terms of each licensing agreement will expire on the earlier of any time from 15 years to 20 years after licensing or on the date of commercial availability of a generic product to such licensed product in the licensed territory. The Company's current focus is on developing and marketing its products in the United States and not Asia.

Third Party Licensor

Based upon a prior acquisition, the Company assumed an obligation to pay a third party: (A) royalty payments up to 2% on net sales of licensed products that are not sold by sublicensee and (B) on each and every sublicense earned royalty payment received by licensee from its sublicensee on sales of license product by sublicensee, the higher of (i) 20% of the royalties received by licensee; or (ii) up to 2% of net sales of sublicensee. The Company will also make milestone payments of up to \$4 or \$2 million, for the first commercial sale of product in the field that has a single active pharmaceutical ingredient, and for the first commercial sale of product in the field of product that has more than one active pharmaceutical ingredient, respectively. As of September 30, 2019, the Company has not generated any revenue related to this license agreement.

**Relmada Therapeutics, Inc.**  
**Notes to Unaudited Consolidated Financial Statements**

**NOTE 10 - COMMITMENTS AND CONTINGENCIES (continued)**

Inturrisi / Manfredi

In January 2018, we entered into an Intellectual Property Assignment Agreement (the Assignment Agreement) and License Agreement (the License Agreement and together with the Assignment Agreement, the Agreements) with Dr. Charles E. Inturrisi and Dr. Paolo Manfredi (collectively, the Licensor). Pursuant to the Agreements, Relmada assigned its existing rights, including patents and patent applications, to d-methadone in the context of psychiatric use (the Existing Invention) to Licensor. Licensor then granted Relmada under the License Agreement a perpetual, worldwide, and exclusive license to commercialize the Existing Invention and certain further inventions regarding d-methadone in the context of other indications such as those contemplated above. In consideration of the rights granted to Relmada under the License Agreement, Relmada paid the Licensor an upfront, non-refundable license fee of \$180,000. Additionally, Relmada will pay Licensor \$45,000 every three months until the earliest to occur of the following events: (i) the first commercial sale of a licensed product anywhere in the world, (ii) the expiration or invalidation of the last to expire or be invalidated of the patent rights anywhere in the world, or (iii) the termination of the License Agreement. Relmada will also pay Licensor tiered royalties with a maximum rate of 2%, decreasing to 1.75%, and 1.5% in certain circumstances, on net sales of licensed products covered under the License Agreement. Relmada will also pay Licensor tiered payments up to a maximum of 20%, and decreasing to 17.5%, and 15% in certain circumstances, of all consideration received by Relmada for sublicenses granted under the License Agreement.

**Legal**

From time to time, the Company may become involved in lawsuits and other legal proceedings that arise in the course of business. Litigation is subject to inherent uncertainties, and it is not possible to predict the outcome of litigation with total confidence. The Company is currently not aware of any legal proceedings or potential claims against it whose outcome would be likely, individually or in the aggregate, to have a material adverse effect on the Company's business, financial condition, operating results, or cash flows.

**Relmada Therapeutics, Inc.**  
**Notes to Unaudited Consolidated Financial Statements**

**NOTE 10 - COMMITMENTS AND CONTINGENCIES (continued)**

**Leases and Sublease**

The Company leased its corporate headquarters at 750 Third Avenue, 9th Floor, New York, New York 10017. The monthly rental fee was \$9,454 per month. The lease was terminated effective January 1, 2019. Effective January 1, 2019, the Company entered a one year lease for its headquarters at 880 Third Avenue, 12<sup>th</sup> floor, New York, NY 10022. The annualized monthly rent for 2019 is approximately \$7,500.

On June 8, 2017, the Company entered into an Amended and Restated License Agreement with Actinium. Pursuant to the terms of the agreement, Actinium will continue to license the furniture, fixtures, equipment and tenant improvements located in the office (FFE) for a license fee of \$7,529 per month until December 8, 2022. Actinium shall have at any time during the term of this agreement the right to purchase the FFE for \$496,914, less any previously paid license fees. The license of FFE qualifies as a sales-type lease. At inception, the Company derecognized the underlying assets of \$493,452, recognized discounted lease payments receivable of \$397,049 using the discount rate of 8.38% and recognized loss on sales-type lease of fixed assets of \$96,403. As of September 30, 2019, the balance of unearned interest income was approximately \$37,300.

**Contractual Obligations**

The following tables sets forth our contractual obligations for the next five years and thereafter:

	<b>Total</b>	<b>Less than 1 year</b>	<b>1 - 2 years</b>	<b>3 - 5 years</b>	<b>More than 5 years</b>
Office lease	\$ 23,520	\$ 23,520	\$ -	\$ -	\$ -
Note payable	255,925	255,925	-	-	-
<b>Total obligations</b>	<b>\$ 279,445</b>	<b>\$ 279,445</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

**NOTE 11 - SUBSEQUENT EVENTS**

Subsequent to September 30, 2019, 327,568 outstanding warrants were exercised for total cash proceeds of approximately \$2,017,000. These warrant exercises include 14,741 shares issued with a cashless exercise.

On October 8, 2019, the Company issued 22,500 warrants to third parties for consulting services, exercise price at \$10.85 per share.

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

### FORWARD-LOOKING STATEMENT NOTICE

This Quarterly Report on Form 10-Q (this Report) contains forward looking statements that involve risks and uncertainties, principally in the sections entitled "Description of Business," "Risk Factors," and "Management's Discussion and Analysis of Financial Condition and Results of Operations." All statements other than statements of historical fact contained in this Quarterly Report, including statements regarding future events, our future financial performance, business strategy and plans and objectives of management for future operations, are forward-looking statements. We have attempted to identify forward-looking statements by terminology including "anticipates," "believes," "can," "continue," "could," "estimates," "expects," "intends," "may," "plans," "potential," "predicts," "should," or "will" or the negative of these terms or other comparable terminology. Although we do not make forward-looking statements unless we believe we have a reasonable basis for doing so, we cannot guarantee their accuracy. These statements are only predictions and involve known and unknown risks, uncertainties and other factors, including the risks outlined under "Risk Factors" or elsewhere in this Quarterly Report, which may cause our or our industry's actual results, levels of activity, performance or achievements expressed or implied by these forward-looking statements. Moreover, we operate in a very competitive and rapidly changing environment. New risks emerge from time to time and it is not possible for us to predict all risk factors, nor can we address the impact of all factors on our business or the extent to which any factor, or combination of factors, may cause our actual results to differ materially from those contained in any forward-looking statements. All forward-looking statements included in this document are based on information available to us on the date hereof, and we assume no obligation to update any such forward-looking statements.

You should not place undue reliance on any forward-looking statement, each of which applies only as of the date of this Quarterly Report on Form-10-Q. Before you invest in our securities, you should be aware that the occurrence of the events described in the section entitled "Risk Factors" and elsewhere in this Quarterly Report could negatively affect our business, operating results, financial condition and stock price. Except as required by law, we undertake no obligation to update or revise publicly any of the forward-looking statements after the date of this Quarterly Report on Form-10-Q to conform our statements to actual results or changed expectations.

### BUSINESS OVERVIEW

Relmada Therapeutics, Inc. (Relmada or the Company) (a Nevada corporation), is a clinical-stage, publicly traded biotechnology company focused on the development of d-methadone (dextromethadone, REL-1017), an N-methyl-D-aspartate (NMDA) receptor antagonist. d-methadone is a new chemical entity that potentially addresses areas of high unmet medical need in the treatment of central nervous system (CNS) diseases and other disorders.

On October 7, 2019 the Company's application to list its common stock on the NASDAQ Capital Market was approved. On October 10, 2019, the Company's common stock began trading on NASDAQ under the existing symbol, "RLMD".

Our lead product candidate, d-methadone, is a New Chemical Entity (NCE) being developed as a rapidly acting, oral agent for the treatment of depression and other potential indications. We have previously completed Phase 1 single and multiple ascending dose studies and on Oct 15<sup>th</sup> 2019 we reported top-line data from study REL-1017-202, a double-blind, placebo-controlled Phase 2 clinical trial evaluating the safety, tolerability and efficacy of two doses of REL-1017 (dextromethadone), 25 mg once a day and 50 mg once a day, as an adjunctive treatment in patients with treatment resistant depression.

Subjects were adults with major depressive disorder (MDD) who did not respond to one to three courses of antidepressant treatment in their current episode. 62 subjects, average age 49.2 years, with an average Hamilton Depression Rating Scale score of 25.3 and an average Montgomery-Asberg Depression Rating Scale (MADRS) score of 34.0 (severe depression), were randomized. Other demographic characteristics were balanced across all arms. After an initial screening period, subjects were randomized to one of three arms: placebo, REL-1017 25 mg or REL-1017 50 mg, in addition to stable background antidepressant therapy. Subjects in the REL-1017 treatment arms received one loading dose of either 75 mg (25 mg arm) or 100 mg (50 mg arm) of REL-1017. Subjects were treated inpatient for 7 days and discharged home at Day 9. They returned for follow-up visits at Day 14 and Day 21. Efficacy was measured on Days 2, 4 and 7 in the dosing period and on Day 14, one week after treatment discontinuation. 61 subjects received all treatment doses and were included in the per-protocol population (PPP) treatment analysis; 57 subjects completed all visits. All 62 randomized subjects were part of the intention-to-treat population (ITT) analysis. No differences were observed between the ITT and PPP analyses and results.

**Key findings:**

Subjects in both the REL-1017 25 mg and 50 mg treatment groups experienced statistically significant improvement of their depression compared to subjects in the placebo group on all efficacy measures, including: the Montgomery-Asberg Depression Rating Scale (MADRS); the Clinical Global Impression – Severity (CGI-S) scale; the Clinical Global Impression – Improvement (CGI-I) scale; and the Symptoms of Depression Questionnaire (SDQ).

The improvement on the MADRS appeared on Day 4 in both REL-1017 dose groups and continued through Day 7 and Day 14, seven days after treatment discontinuation, with P values < 0.03 and large effect sizes (a measure of quantifying the difference between two groups), ranging from 0.7 to 1.0. Similar findings emerged from the CGI-S and CGI-I scales.

**MADRS: Analysis of Change from Baseline to Day 7 and to Day 14 ITT Population**

	Day 2			Day 4			Day 7			Day 14		
	LS Means Difference	P-value	d									
REL-1017 25mg vs Placebo	-1.9	0.4340	0.3	-7.9	0.0087	0.9	-8.7	0.0122	0.8	-9.4	0.0103	0.9
REL-1017 50mg vs Placebo	-0.3	0.9092	0.0	-7.6	0.0096	0.8	-7.2	0.0308	0.7	-10.4	0.0039	1.0

LS = Least Squares; d = Cohen’s effect size

The study also confirmed the favorable safety and tolerability profile of REL-1017, which was also observed in the Phase 1 studies. Subjects experienced mild and moderate adverse events (AEs), and no serious adverse events, without significant differences between placebo and treatment groups. There was no evidence of either treatment induced psychotomimetic and dissociative AEs or withdrawal signs and symptoms upon treatment discontinuation.

NMDA receptors are present in many parts of the central nervous system and play important roles in regulating neuronal activity. We believe that dextromethadone acting as a NMDA receptor antagonist can have potential applications in a number of disease indications which mitigates risk and offers significant upside.

The Company has a portfolio of three 505b2 product candidates at various stages of development. These products are: LevoCap ER (REL-1015), an abuse resistant, sustained release dosage form of the opioid analgesic levorphanol; BuTab (oral buprenorphine, REL-1028), an oral dosage form of the opioid analgesic buprenorphine; and MepiGel (topical mepivacaine, REL-1021), an orphan drug designated topical formulation of the local anesthetic mepivacaine. These products are not currently in active development.

Our four development projects are briefly described below:

#### **d-Methadone (dextromethadone, REL-1017) and Treatment-Resistant Depression (TRD)**

##### *Background*

In 2014, the National Institute of Mental Health (NIMH) estimated that 15.7 million adults aged 18 or older in the United States had at least one major depressive episode in the past year. According to data from nationally representative surveys supported by NIMH, only about half of Americans diagnosed with major depression in a given year receive treatment. Of those receiving treatment with as many as four different standard antidepressants, 33% of drug-treated depression patients do not achieve adequate therapeutic benefits according to the Sequenced Treatment Alternatives to Relieve Depression (STAR\*D) trial published in the American Journal of Psychiatry. Accordingly, we believe that approximately 3 million patients with such treatment-resistant depression are in need of new treatment options.

In addition to the high failure rate, none of the marketed products for depression can demonstrate rapid antidepressant effects and most of the products take up to a month to show effectiveness. The urgent need for improved, faster acting antidepressant treatments is underscored by the fact that severe depression can be life-threatening, due to heightened risk of suicide.

Recent studies have shown that ketamine, a drug known previously as an anesthetic, can lift depression in many patients within hours. However, it is unlikely that ketamine itself will become a practical treatment for most cases of depression. It must be administered through intravenous infusion, requiring a hospital setting, and more importantly can potentially trigger adverse side effects including psychedelic symptoms (hallucinations, memory defects, panic attacks), nausea/vomiting, somnolence, cardiovascular stimulation and, in a minority of patients, hepatotoxicity. Ketamine also hasn't been thoroughly studied for long-term safety and effectiveness, and the U.S. Food and Drug Administration (FDA) has not approved it to treat depression.

##### **d-Methadone Overview and Mechanism of Action**

d-Methadone's mechanism of action, as a non-competitive NMDA channel blocker or antagonist, is fundamentally differentiated from all currently FDA-approved antidepressants, as well as all atypical antipsychotics used adjunctively with standard, FDA-approved antidepressants. Working through the same brain mechanisms as ketamine but potentially lacking its adverse side effects, Relmada's d-methadone is being developed as a rapidly acting, oral agent for the treatment of depression, neuropathic pain, and/or other potential CNS pathological conditions.

In chemistry an enantiomer, also known as an optical isomer, is one of two stereoisomers that are mirror images of each other that are non-superposable (not identical), much as one's left and right hands are the same except for being reversed along one axis. A racemic compound, or racemate, is one that has equal amounts of left- and right-handed enantiomers of a chiral molecule. For racemic drugs, often only one of a drug's enantiomers is responsible for the desired physiologic effects, while the other enantiomer is less active or inactive.

Racemic methadone has been used since the 1950s as a treatment for opioid addiction and has remained the primary therapy for this condition for more than 40 years. Methadone is a highly lipophilic molecule that is suitable for a variety of administration routes, with oral bioavailability close to 80%.

As a single isomer of racemic methadone, d-methadone has been shown to possess NMDA antagonist properties with virtually no traditional opioid effect or ketamine-like adverse events at the expected therapeutic doses. In contrast, racemic methadone is associated with common opioid activity and side effects that include anxiety, nervousness, restlessness, sleep problems (insomnia), nausea, vomiting, constipation, diarrhea, drowsiness, and others. It has been shown that the left (levo) isomer, d-methadone, is largely responsible for methadone's opioid activity, while the right (dextro) isomer, d-methadone, at the currently therapeutic doses used in development is virtually inactive as an opioid while maintaining affinity for the NMDA receptor.

NMDA receptors are present in many parts of the central nervous system and play important roles in regulating neuronal activity and promoting synaptic plasticity in brain areas important for cognitive functions such as executive function, learning and memory. Based on these premises, d-methadone could show benefits in several different CNS indications.

##### **d-Methadone Phase 1 Clinical Safety Studies**

The safety data from two Company-funded d-methadone Phase 1 clinical safety studies and a third study conducted by researchers at Memorial Sloan-Kettering Cancer Center indicate that d-methadone was safe and well tolerated in both healthy subjects and cancer patients at all projected therapeutic doses tested.

In November 2014, Health Canada approved a Clinical Trial Application (CTA) to conduct the first Phase 1 study with d-methadone. This was a Single Ascending Dose (SAD) study and was followed by a Multiple Ascending Dose (MAD) study, both in healthy volunteers. The two studies were designed to assess the safety, tolerability and pharmacokinetics of d-methadone in healthy, opioid-naïve subjects. The SAD study included single escalating oral doses of d-methadone to determine the maximum tolerated dose, defined as the highest dose devoid of unacceptable adverse events. In the MAD study, healthy subjects received daily oral doses of d-methadone for several days to assess its safety, pharmacokinetics and tolerability. In March 2015, we reported that d-methadone demonstrated an acceptable safety profile with no dose limiting side effects after four cohorts were exposed to increasing higher doses. In April 2015, the Company received clearance from Health Canada to continue with dose escalation and explore even higher single doses of d-methadone. In June 2015, the Company successfully completed the SAD study identifying the maximum tolerated dose and subsequently received a No Objection Letter (NOL) from Health Canada to conduct the MAD clinical study in August 2015. The MAD study was completed in January 2016 and the results successfully demonstrated a potential therapeutic dosing regimen for d-methadone with a favorable side effect and tolerability profile. The data from these studies was used to design a Phase 2a study in patients with depression.

#### **d-Methadone In Vivo Study for Depression**

In May 2016, we announced the results of an in vivo study showing that administration of d-methadone results in antidepressant-like effects in a well-validated animal model of depression, known as the forced swim test (FST), providing preclinical support for its potential as a novel treatment of depression.

According to the Journal of Visualized Experiments, the FST is based on the assumption that when placing an animal in a container filled with water, it will first make efforts to escape by swimming or climbing, but eventually will exhibit “immobility” that may be considered to reflect a measure of behavioral despair. This test has been extensively used because it involves the exposure of the animals to stress, which was shown to have a role in the tendency for major depression. Additionally, the FST has been shown to be influenced by some of the factors that are altered by or worsen depression in humans, including changes in food consumption and sleep abnormalities. The main advantages of this procedure are that it is relatively easy to perform and that its results are easily and quickly analyzed. Importantly, the FST’s sensitivity to a broad range of antidepressant drugs makes it a suitable screening test and is one of the most important features leading to its high predictive validity.

In the Company’s FST study, male Sprague Dawley rats were administered single doses of placebo, ketamine, or d-methadone on day one (after habituation; 24 hours prior to forced swim testing). At all doses tested, d-methadone significantly decreased immobility of the rats compared to the placebo, suggesting antidepressant-like activity. In addition, the effect of d-methadone on immobility at the two highest doses tested was larger than the effect seen with ketamine. Moreover, the effects of d-methadone in the forced swim test were not caused by a stimulant effect on spontaneous locomotor activity of the rats. Locomotor activity of lab animals is often monitored to assess the behavioral effects of drugs.

In September 2017, we completed two additional in vivo studies to confirm and support the antidepressant-like effect of dextromethadone in validated animal models, the Novelty Suppressed Feeding Test (NSFT) and the Female Urine-Sniffing test (FUST) test. The studies were performed by Professor Ronald S. Duman, Ph.D. at Yale University School of Medicine.

For FUST, rats are first exposed to a cotton tip dipped in tap water and later exposed to another cotton tip infused with fresh female urine. Male behavior was video recorded and total time spent sniffing the cotton-tipped applicator is determined. For NSFT, rats were food deprived for 24 hours and then placed in an open field with food pellets in the center; latency to eat is recorded in seconds. As a control, food consumption in the home cage is quantified. Rats were administered vehicle, ketamine or d-methadone.

The results of the FUST demonstrate that administration of ketamine significantly increases the time male rats spent engaged in sniffing female urine compared to vehicle group. Similarly, a single dose of d-methadone significantly increased the time spent sniffing female urine compared to vehicle. In contrast, ketamine or d-methadone had no effect on time sniffing water, demonstrating that the effect of drug treatment was specific to the rewarding effects of female urine. The results of the NSFT demonstrate that a single dose of ketamine significantly decreases the latency to eat in a novel open field. Similarly, a single dose of d-methadone also significantly decreased the latency to enter and eat in the novel feed. In contrast, neither ketamine nor methadone influenced latency to feed in the home cage.

These findings demonstrate that ketamine and d-methadone produce rapid antidepressant actions in the FUST and NSFT, effects that are only observed after chronic administration of an SSRI antidepressant.

A separate in vitro electrophysiology study of d-methadone was conducted using 2 subtypes of cloned human NMDA receptors.

The results of this study demonstrated functional antagonist activity with d-methadone comparable to that of both racemic ketamine and the isomer [S]-ketamine.

## **Phase 2 Program for d-Methadone**

Combined with the results of our Phase 1 studies, the encouraging results of in vivo and in vitro studies strongly support further evaluation of d-methadone in a Phase 2 study as a rapidly acting, oral agent for the treatment of major depressive disorder. Relmada filed an Investigational New Drug (IND) application for the Phase 2 study with the FDA, which was accepted on January 25, 2017.

On April 13, 2017, we announced that the FDA granted Fast Track designation for d-methadone (REL-1017 dextromethadone) for the adjunctive treatment of major depressive disorder. Fast Track designation is a process designed to facilitate the development and expedite the review of drugs to treat serious conditions and fill an unmet medical need. The purpose, according to the FDA, is to get important new drugs to the patient earlier. Drugs that receive Fast Track designation may be eligible for more frequent meetings and written communications with the FDA, accelerated review and priority approval, and rolling New Drug Application (NDA) review.

On January 17, 2018, we announced that Relmada had acquired the global rights to develop and market dextromethadone for the treatment of neurological conditions including certain rare diseases with symptoms affecting the CNS.

In February 2018, Relmada initiated its Phase 2 study of d-methadone in patients with major depressive disorder who did not respond to one to three courses of antidepressant treatment in their current episode (Treatment Resistant Depression of TRD).

In July 2019, Relmada announced the completion of dosing of the last patient in its Phase 2 study of d-methadone in patients with major depressive disorder.

On October 15, 2019, the Company reported top-line data from the Phase 2 study of d-methadone in adults with major depressive disorder who did not respond to one to three courses of antidepressant treatment in their current episode (TRD). Subjects in both dose groups experienced statistically significant improvement of their depression compared to subjects in the placebo group on all efficacy measures, including: the Montgomery-Asberg Depression Rating Scale (MADRS); the Clinical Global Impression – Severity (CGI-S) scale; the Clinical Global Impression – Improvement (CGI-I) scale; and the Symptoms of Depression Questionnaire (SDQ). The improvement on the MADRS appeared on Day 4 in both REL-1017 dose groups and continued through Day 7 and Day 14, seven days after treatment discontinuation, with P values < 0.03 and large effect sizes (a measure of quantifying the difference between two groups), ranging from 0.7 to 1.0. Similar findings emerged from the CGI-S and CGI-I scales. The study also confirmed the favorable safety and tolerability profile of d-methadone, which was also observed in the Phase 1 studies. Subjects experienced mild and moderate adverse events (AEs), and no serious adverse events, without significant differences between placebo and treatment groups. There was no evidence of either treatment induced psychotomimetic and dissociative AEs or withdrawal signs and symptoms upon treatment discontinuation.

## **d-methadone (dextromethadone, REL-1017) in other indications**

In addition to developing dextromethadone in Treatment Resistant Depression (TRD), Relmada is initiating work in additional indications that includes Major Depressive Disorder (MDD) and Rett syndrome. Rett syndrome is an X-linked neurodevelopmental disorder with high unmet need caused by Mecp2 gene mutation. Loss of Mecp2 disrupts synaptic function and structure and neuronal networks. Rett syndrome is an Orphan Disease affecting ~15,000 in U.S., primarily girls, with no approved therapy. The disease begins with a short period of developmental stagnation, then rapid regression in language and motor skills, followed by long-term stability.

Studies of ketamine, a NMDAR antagonist with mechanistic similarities with dextromethadone, in Rett Syndrome mouse models show that low-dose ketamine acutely reverses multiple disease manifestations and chronic administration of ketamine improves Rett Syndrome progression, providing a solid rationale to pursue this indication with dextromethadone.

Other indications that Relmada may explore in the future, potentially includes restless leg syndrome and ALS.

In January 2018, we entered into an Intellectual Property Assignment Agreement (the Assignment Agreement) and License Agreement (the License Agreement and together with the Assignment Agreement, the Agreements) with Dr. Charles E. Inturrisi and Dr. Paolo Manfredi (collectively, the Licensor). Pursuant to the Agreements, Relmada assigned its existing rights, including patents and patent applications, to d-methadone in the context of psychiatric use (the Existing Invention) to Licensor. Licensor then granted Relmada under the License Agreement a perpetual, worldwide, and exclusive license to commercialize the Existing Invention and certain further inventions regarding d-methadone in the context of other indications such as those contemplated above.

#### **LevoCap ER (REL-1015)**

LevoCap ER (REL-1015) is a novel version of a proven drug product. LevoCap ER -is an extended release, abuse deterrent, and proprietary formulation of levorphanol (levo-3-hydroxy-N-methyl-morphinan), a unique, broad spectrum opioid with additional “non-opioid” mechanisms of action. In particular, levorphanol binds to all three opioid receptor subtypes involved in analgesia (mu, kappa, and delta), the NMDA receptor, and the norepinephrine and serotonin reuptake pumps, whereas morphine, oxycodone, hydrocodone, and other opioids are highly selective for the mu receptor subtype. Due to its multi-modal mechanism of action, levorphanol could achieve analgesia in patients resistant to other strong opioids. In clinical studies, levorphanol has demonstrated a remarkably broad spectrum of analgesic activity against many different types of pain including neuropathic pain, post-surgical pain, and chronic pain in patients refractory to other opioids.

Levorphanol is a potent opioid analgesic first introduced in the U.S. around 1953 for the treatment of moderate to severe pain where an opioid analgesic is appropriate. Extended-release (long-acting opioid) agents may be preferable to immediate release formulations due to better patient adherence, less dose-watching, and result in improved sleep. Both immediate- and extended-release opioids can potentially be crushed to produce concentrated drug with greater appeal to abusers. Intentional crushing or extracting the active ingredient from the extended-release dosage form by addicts and recreational drug users can destroy the timed-release mechanism and result in a rapid surge of drug into the bloodstream for the purpose of achieving a high or euphoric feeling. Serious side effects and death have been reported from such misuse.

LevoCap ER is the first product candidate utilizing SECUREL™, Relmada's proprietary abuse deterrent extended release technology for opioid drugs. SECUREL dosage forms cannot be easily crushed for inhalation or to obtain rapid euphoria from high blood levels when swallowed. It is also exceedingly difficult for intravenous abusers to extract the active drug from the dosage form using common solvents, including alcohol.

LevoCap ER can be developed under the 505(b)(2) regulatory pathway. Following an exchange of correspondence and meeting with the FDA in January 2017, we have defined a path forward for the Phase 3 clinical study for LevoCap ER and a NDA filing. In light of the promising data generated by Relmada's d-methadone research program, and Relmada's focus on the d-methadone program, Relmada is currently limiting the investments in LevoCap ER.

#### **BuTab (REL-1028)**

BuTab (REL-1028) represents a novel formulation of oral, modified release buprenorphine as a potential therapeutic for both chronic pain and opioid dependence. Buprenorphine has been widely used by the sublingual and transdermal routes of administration, but was believed to be ineffective by the oral route because of poor oral bioavailability. We have completed a preclinical program to better define the pharmacokinetic profile of BuTab and to assess the time course of systemic absorption of buprenorphine using several different oral modified release formulations of buprenorphine in dogs, compared to an intravenous administration. Based on the results of this work, we obtained approval from Health Canada and initiated a Phase pharmacokinetic study in healthy volunteers in the second quarter of 2015. This trial was completed in the fourth quarter of 2015. The absolute bioavailability of BuTab relative to intravenous (IV) administration exceeded published data with non-modified buprenorphine when administered orally and compares favorably with a currently marketed transdermal patch. There were no safety or tolerability issues. The data generated by this study will guide formulation optimization and inform the design of subsequent clinical pharmacology studies. BuTab can be developed under the 505(b)(2) regulatory pathway. In light of the promising data generated by Relmada's d-methadone research program, and Relmada's focus on the d-methadone program, Relmada is currently limiting the investments in BuTab.

#### **MepiGel (REL-1021)**

MepiGel (REL-1021), is a proprietary topical dosage form of the local anesthetic mepivacaine for the treatment of painful peripheral neuropathies, such as painful diabetic neuropathy, postherpetic neuralgia and painful HIV-associated neuropathy. Mepivacaine is an anesthetic (numbing medicine) that blocks the nerve impulses that send pain signals to the brain. It is chemically related to bupivacaine but pharmacologically related to lidocaine. Mepivacaine is currently indicated for infiltration, nerve block and epidural anesthesia. Relmada has received two FDA Orphan Drug Designations for mepivacaine, one each for "the treatment of painful HIV-associated neuropathy" and for "the management of postherpetic neuralgia," or PHN. We have selected the formulations to be advanced into clinical studies for MepiGel after the evaluation of results from in vitro and ex vivo studies comparing various topical prototypes of mepivacaine that were conducted by MedPharm Ltd, a specialist formulation development company recognized internationally for its expertise in topical and transdermal products. Multiple toxicology studies were successfully conducted and completed in 2015. MepiGel can be developed under the 505(b)(2) regulatory pathway. In light of the promising data generated by Relmada's d-methadone research program, and Relmada's focus on the d-methadone program, Relmada is currently limiting the investments in MepiGel.

#### **Overview of the 505(b)(2) Pathway**

Part of our strategy is the utilization of FDA's 505(b)(2) NDA for approval. The 505(b)(2) NDA is one of three FDA drug approval pathways and represents an appealing regulatory strategy for many companies. The pathway was created by the Hatch-Waxman Amendments of 1984, with 505(b)(2) referring to a section of the Federal Food, Drug, and Cosmetic Act. The provisions of 505(b)(2) were created, in part, to help avoid unnecessary duplication of studies already performed on a previously approved (reference or listed) drug; the section gives the FDA express permission to rely on data not developed by the NDA applicant.

A 505(b)(2) NDA contains full safety and effectiveness reports but allows at least some of the information required for NDA approval, such as safety and efficacy information on the active ingredient, to come from studies not conducted by or for the applicant. This can result in a much less expensive and much faster route to approval, compared with a traditional development path [such as 505(b)(1)], while creating new, differentiated products with tremendous commercial value.

### **Overview of Orphan Drug Status**

In accordance with laws and regulations pertaining to the Regulatory Agencies, a sponsor may request that the Regulatory Agencies designate a drug intended to treat a “Rare Disease or Condition” as an “Orphan Drug.” For example, in the United States, a “Rare Disease or Condition” is defined as one which affects less than 200,000 people in the United States, or which affects more than 200,000 people but for which the cost of developing and making available the product is not expected to be recovered from sales of the product in the United States. Upon the approval of the first NDA or BLA for a drug designated as an orphan drug for a specified indication, the sponsor of that NDA or BLA is entitled to 7 years of exclusive marketing rights in the United States unless the sponsor cannot assure the availability of sufficient quantities to meet the needs of persons with the disease. In Europe, this exclusivity is 10 years, and in Australia it is 5 years. However, orphan drug status is particular to the approved indication and does not prevent another company from seeking approval of an off-patent drug that has other labeled indications that are not under orphan or other exclusivities. Orphan drugs may also be eligible for federal income tax credits for costs associated with such as the disease state, the strength and complexity of the data presented, the novelty of the target or compound, risk-management approval and whether multiple rounds of review are required for the agency to evaluate the submission. There is no guarantee that a potential treatment will receive marketing approval or that decisions on marketing approvals or treatment indications will be consistent across geographic areas.

### **Reverse Stock Split**

On September 26, 2019, our Board of Directors approved a 1-for-4 reverse split of our common stock, which was effective on the NASDAQ Capital Market on September 30, 2019. As a result of the reverse stock split, every 4 shares of issued and outstanding common stock were converted into 1 share of issued and outstanding common stock, with all fractional shares rounded up to the nearest whole share, and our authorized shares of common stock were reduced from 200,000,000 to 50,000,000 shares. All share and per share amounts herein have been retroactively restated to reflect this reverse stock split.

### **Results of Operations**

For the Three Months Ended September 30, 2019 versus September 30, 2018

	Three Months Ended September 30, 2019	Three Months Ended September 30, 2018	Increase (Decrease)
<b>Operating Expenses</b>			
General and administrative	\$ 1,820,043	\$ 989,748	\$ 830,295
Research and development	1,887,367	1,421,482	465,885
<b>Total</b>	<b>\$ 3,707,410</b>	<b>2,411,230</b>	<b>1,296,180</b>

#### **General and Administrative Expense**

General and administrative expense for the three months ended September 30, 2019 was approximately \$1,820,000 compared to \$989,700 for the three months ended September 30, 2018, an increase of approximately \$830,300. The increase resulted from an increase in compensation costs of \$280,100; an increase in stock-based compensation costs of \$545,300; an increase in other G&A expenses of \$51,800 that pertained primarily investor relations; and an increase in professional service fees of \$111,300. These increases were partially offset by a decrease in patent legal fees of \$68,500 and a decrease of litigation fees of \$84,600.

#### **Research and Development Expense**

Research and development expense for the three months ended September 30, 2019 was approximately \$1,887,400 compared to \$1,421,500 for the three months ended September 30, 2018, an increase of \$465,900. The increase was driven by an increase in study costs of \$205,000, of which the majority pertained to our ongoing Phase 2 study, as well as an increase in compensation costs of \$201,200.

#### **Other Income (Expense)**

The change in the fair value of derivative liabilities was a non-cash unrealized loss for the three months ended September 30, 2018 of approximately \$318,500. There were no derivative liabilities as of September 30, 2019.

Interest income was \$37,900 versus net interest expense of \$650,300, for the three months ended September 30, 2019 and 2018, respectively.

#### **Net Loss**

The net loss for the Company for the three months ended September 30, 2019 and 2018 was approximately \$(3,669,500) and \$(3,380,100) respectively. The Company had net loss per basic and diluted weighted average common share of \$(0.38) and \$(1.08) for the three months ended September 30, 2019 and 2018, respectively.

## Liquidity

As shown in the accompanying financial statements, the Company incurred negative operating cash flows of \$2,534,151 for the quarter ended September 30, 2019 and has an accumulated deficit of \$115,331,861 from inception through September 30, 2019.

Relmada has funded its past operations through equity raises and most recently in the year ended June 30, 2019 Relmada raised net proceeds from the sale of common stock and warrants of \$17,760,635. Further, the Company was able to reduce its debt obligations by converting \$8,030,365 of promissory notes and accrued interest into common stock. The Company also raised an additional \$1,275,749 during the three months ended September 30, 2019 from the sale of common stock and warrant exercises.

Management believes that due to the recent equity raises completed and exercises of outstanding warrants and the current cash position on its balance sheet, it has obtained sufficient funding to continue ongoing operations for the at least the twelve months from the issuance of the accompanying consolidated quarterly financial statements. Since September 30, 2019 and to date, given the reported positive results of clinical trial data and the resulting increase in the Company's share price, the Company has received approximately \$2,017,000 in warrant exercises, which resulted in the Company having approximately \$8,010,000 in cash and cash equivalents at November 8, 2019. Based on its budgeted cash flow requirements, the Company believes these funds are sufficient to fund its ongoing operations for at least one year after the issuance of these consolidated quarterly financial statements. The Company expects that the cash burn rate for the 12 months ended December 31, 2020, will be between \$5-6 million, which includes approximately \$2 million of discretionary research and development (R&D) spending, as the data analysis on the Phase 2a clinical trial is completed and the planning and preparation for the next clinical trial is conducted. Regardless of the results of any ongoing clinical trial, we have control over our expenditures and have the ability to adjust spending accordingly based on the budgeted cash flow requirements developed and the excess cash on hand.

Given the positive results of the Company's Phase 2 clinical trial, management will evaluate the size and scope of any subsequent trials that will affect the timing of additional financings through public or private sales of equity or debt securities or from bank or other loans or through strategic collaboration and/or licensing agreements. Any such expenditures related to any subsequent trials will not be incurred until such additional financing is raised. Further, additional financing related to subsequent trials does not affect the Company's conclusion that based on the cash on hand and the budgeted cash flow requirements, the Company has sufficient funds to maintain operations for the next twelve months from the issuance of these consolidated quarterly financial statements.

The following table sets forth selected cash flow information for the periods indicated below:

	Three Months Ended September 30, 2019	Three Months Ended September 30, 2018
Cash used in operating activities	\$ (2,534,151)	\$ (1,670,983)
Cash provided by financing activities	1,167,470	319,534
Net decrease in cash and cash equivalents	<u>\$ (1,366,681)</u>	<u>\$ (1,351,449)</u>

For the three months ended September 30, 2019, cash used in operating activities was \$2,534,151 primarily due to the net loss of \$3,669,494, offset by other receivable of \$177,000, prepaid expenses of \$143,800, non-cash stock compensation charges of \$757,716, offset by changes to working capital.

For the three months ended September 30, 2018, cash used in operating activities was \$1,670,983 primarily due to the loss from operations for the three months ended September 30, 2018 of \$3,380,093 off set by amortization of deferred financing costs of \$536,500, change in fair value of derivative liabilities of \$318,500, non-cash stock compensation expense of \$152,800.

For the three months ended September 30, 2019 and 2018, no cash was used in investing activities.

Net cash provided by financing activities for the three months ended September 30, 2019 was \$1,167,470 due to proceeds from issuance of common stock of \$825,749 and proceeds from warrants exercised for common stock of \$450,000. Net cash provided by financing activities for the three months ended September 30, 2018 was \$319,534 primarily due to proceeds raised through the units funds received of \$404,500 partially offset by payments of notes payable of \$84,966.

## Effects of Inflation

Our assets are primarily monetary, consisting of cash and cash equivalents. Because of their liquidity, these assets are not directly affected by inflation. Because we intend to retain and continue to use our equipment, we believe that the incremental inflation related to replacement costs of such items will not materially affect our operations. However, the rate of inflation affects our expenses, such as those for employee compensation and contract services, which could increase our level of expenses and the rate at which we use our resources.

### **Off-Balance Sheet Arrangements**

As part of our ongoing business, we do not participate in transactions that generate relationships with unconsolidated entities or financial partnerships, such as entities often referred to as structured finance or special purpose entities (SPEs), which would have been established for the purpose of facilitating off-balance sheet arrangements or other contractually limited purposes. As of September 30, 2019 and June 30, 2019, we were not involved in any SPE transactions.

### **Contractual Obligations**

Please refer to Note 12 in our Annual Report on Form 10-K for the year ended June 30, 2019 under the heading Commitments and Contingencies. To our knowledge there have been no material changes to the risk factors that were previously disclosed in the Company's Annual Report on Form 10-K for the year ended June 30, 2019. Additional risks and uncertainties not currently known to us or that we currently deem to be immaterial also may materially adversely affect our business, financial condition and/or operating results.

### **Critical Accounting Policies and Estimates**

A critical accounting policy is one that is both important to the portrayal of a company's financial condition and results of operations and requires management's most difficult, subjective or complex judgments, often as a result of the need to make estimates about the effect of matters that are inherently uncertain.

Our unaudited consolidated financial statements are presented in accordance with U.S. GAAP, and all applicable U.S. GAAP accounting standards effective as of September 30, 2018 have been taken into consideration in preparing the unaudited consolidated financial statements. The preparation of unaudited consolidated financial statements requires estimates and assumptions that affect the reported amounts of assets, liabilities, expenses and related disclosures. Some of those estimates are subjective and complex, and, consequently, actual results could differ from those estimates. The following accounting policies and estimates have been highlighted as significant because changes to certain judgments and assumptions inherent in these policies could affect our consolidated financial statements:

- Research and development expenses,
- Stock-based compensation expenses; and
- Fair value of derivative liabilities

We base our estimates, to the extent possible, on historical experience. Historical information is modified as appropriate based on current business factors and various assumptions that we believe are necessary to form a basis for making judgments about the carrying value of assets and liabilities. We evaluate our estimates on an on-going basis and make changes when necessary. Actual results could differ from our estimates.

### **ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK.**

There have been no material changes to our exposures to market risks as disclosed under the heading "Quantitative and Qualitative Disclosures About Market Risks" in the annual MD&A contained in our Form 10-K for the year ended June 30, 2019.

## **ITEM 4. CONTROLS AND PROCEDURES**

### **Evaluation of Disclosure Controls and Procedures**

We carried out an evaluation, under the supervision and with the participation of our management, including our principal executive officer and principal financial officer, of the effectiveness of the design and operation of our disclosure controls and procedures, as defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934, as amended (the Exchange Act). Disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that information required to be disclosed by an issuer in the reports that it files or submits under the Exchange Act is accumulated and communicated to the issuer's management, including its principal executive and principal financial officers, or persons performing similar functions, as appropriate to allow timely decisions regarding required disclosure. Based upon our evaluation, our Chief Executive Officer and Chief Financial Officer concluded that our disclosure controls and procedures are effective as of September 30, 2019, in ensuring that material information that we are required to disclose in reports that we file or submit under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the Securities and Exchange Commission rules and forms.

### **Changes in Internal Control over Financial Reporting**

There were no changes in our internal control over financial reporting, as such term is defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act, during the three months ended September 30, 2019 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

## **PART II OTHER INFORMATION**

### **ITEM 1. LEGAL PROCEEDINGS**

From time to time, the Company may become involved in lawsuits and other legal proceedings that arise in the course of business. Litigation is subject to inherent uncertainties, and it is not possible to predict the outcome of litigation with total confidence. The Company is currently not aware of any legal proceedings or potential claims against it whose outcome would be likely, individually or in the aggregate, to have a material adverse effect on the Company's business, financial condition, operating results, or cash flows.

### **ITEM 1A. RISK FACTORS**

There have been no material changes to the risk factors under Part I, Item 1A of our Form 10-K for the year ended June 30, 2019.

### **ITEM 2. UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS.**

On September 23, 2019 and September 26, 2019, the Company sold to accredited investors an aggregate of 117,965 shares of common stock pursuant to a private placement transaction. The price per share was \$7.00. There were no commissions paid. We believe the issuance of the shares were exempt from registration and prospectus delivery requirements of the Securities Act of 1933 by virtue of Section 4(2) and/or Regulation D, Rule 506. The shares were issued directly by us and did not involve a public offering or general solicitation. The recipients of the shares were afforded an opportunity for effective access to our files and records that contained the relevant information needed to make their investment decision, including our financial statements and 34 Act reports. We reasonably believed that the recipients, immediately prior to granting the shares and warrants, had such knowledge and experience in our financial and business matters that they were capable of evaluating the merits and risks of their investment. The recipients had the opportunity to speak with our management on several occasions prior to their investment decision.

**ITEM 3. DEFAULTS UPON SENIOR SECURITIES.**

None.

**ITEM 4. MINE SAFETY DISCLOSURES**

Not applicable.

**ITEM 5. OTHER INFORMATION**

Not applicable.

**ITEM 6. EXHIBITS**

Copies of the following documents are included as exhibits to this report pursuant to Item 601 of Regulation S-K

<b>Exhibit No.</b>	<b>Title of Document</b>	<b>Location</b>
3.1	<a href="#">Certificate of Change of Relmada Therapeutics, Inc. dated September 26, 2019.</a>	Incorporated by reference to Exhibit 3.1 to Form 8-K filed on September 27, 2019.
10.1	<a href="#">Consulting Agreement, dated July 29, 2019, by and between Charles S. Ence and Relmada Therapeutics, Inc.</a>	Incorporated by reference to Exhibit 10.1 to Form 8-K filed July 29, 2019.
10.2	<a href="#">Indemnification Agreement, dated July 29, 2019, by and between Charles S. Ence and Relmada Therapeutics, Inc.</a>	Incorporated by reference to Exhibit 10.2 to Form 8-K filed July 29, 2019.
10.3	<a href="#">Confidential Information and Invention Assignment Agreement, dated July 29, 2019, by and between Charles S. Ence and Relmada Therapeutics, Inc.</a>	Incorporated by reference to Exhibit 10.2 to Form 8-K filed July 29, 2019.
10.4	<a href="#">Form of Share Purchase Agreement, dated September 23, 2019 and September 26, 2019, among Relmada Therapeutics, Inc. and certain accredited investors named therein.</a>	Attached
10.5	<a href="#">Form of Registration Rights Agreement, dated September 23, 2019 and September 26, 2019, among Relmada Therapeutics, Inc. and certain accredited investors named therein.</a>	Attached
31.1	<a href="#">Certification of the Chief Executive Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002</a>	Attached
31.2	<a href="#">Certification of the Principal Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002</a>	Attached
32.1	<a href="#">Certification of the Chief Executive Officer pursuant to U.S.C. Section 1350 as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002*</a>	Attached
32.2	<a href="#">Certification of the Principal Financial Officer pursuant to U.S.C. Section 1350 as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002*</a>	Attached
101.INS	XBRL Instance Document	Attached
101.SCH	XBRL Taxonomy Extension Schema Document	Attached
101.CAL	XBRL Taxonomy Calculation Linkbase Document	Attached
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document	Attached
101.LAB	XBRL Taxonomy Label Linkbase Document	Attached
101.PRE	XBRL Taxonomy Presentation Linkbase Document	Attached

\* The Exhibit attached to this Form 10-Q shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934 (the "Exchange Act") or otherwise subject to liability under that section, nor shall it be deemed incorporated by reference in any filing under the Securities Act of 1933, as amended, or the Exchange Act, except as expressly set forth by specific reference 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.

Date: November 13, 2019

By: /s/ Sergio Traversa  
Sergio Traversa  
Chief Executive Officer  
(Duly Authorized Officer and  
Principal Executive Officer)

/s/ Charles Ence  
Charles Ence  
Chief Financial Officer  
(Duly Authorized Officer and  
Principal Financial and Accounting Officer)

SHARE PURCHASE AGREEMENT  
BY AND AMONG  
RELMADA THERAPEUTICS, INC.  
AND  
EACH PURCHASER IDENTIFIED ON APPENDIX A HERETO

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## SHARE PURCHASE AGREEMENT

This SHARE PURCHASE AGREEMENT (this "Agreement") is dated as of September \_\_, 2019 by and among Relmada Therapeutics, Inc., a Nevada corporation (the "Company"), and each purchaser identified on Appendix A hereto (each, including its successors and assigns, a "Purchaser" and collectively, the "Purchasers").

WHEREAS, the Company is offering (the "Offering") up to \_\_\_\_\_ shares of common stock (the "Shares"), par value \$0.001 per share (the "Securities"), at a price per Share of \$1.75 (the "Price Per Share");

WHEREAS, the Shares are being offered on a "*best efforts*" basis with respect to a maximum of \$2,000,000 (the "Maximum Offering Amount") to a limited number of "accredited investors" (as that term is defined by Rule 501(a) of Regulation D ("Regulation D") promulgated by the Securities and Exchange Commission under the Securities Act of 1933, as amended (the "Securities Act");

WHEREAS, the Company and each Purchaser is executing and delivering this agreement in reliance upon the exemption from securities registration afforded by Section 4(a)(2) of the Securities Act and Rule 506 of Regulation D promulgated by the SEC under the Securities Act;

WHEREAS, the minimum investment amount that may be purchased by a Purchaser is 5,715 Shares for an aggregate minimum purchase price of \$10,000, unless the Company waives such requirement in its sole discretion; and

WHEREAS, the Company desires to issue and sell the Shares to each Purchaser in one or more Closings (as defined below) as set forth herein.

WHEREAS the subscription for the Securities will be made in accordance with and subject to the terms and conditions of the Subscription Agreement and the Company's Confidential Private Placement Memorandum dated September 8, 2019, together with all amendments thereof and supplements and exhibits thereto and as such may be amended from time to time (the "Memorandum").

NOW, THEREFORE, IN CONSIDERATION of the mutual covenants contained in this Agreement, and for other good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, the Company and each Purchaser agree as follows:

### ARTICLE I. DEFINITIONS

1.1 Definitions. In addition to the terms defined elsewhere in this Agreement, the following terms have the meanings set forth in this Section 1.1:

"Action" shall have the meaning ascribed to such term in Section 3.1(j).

"Affiliate" means any Person that, directly or indirectly through one or more intermediaries, controls or is controlled by or is under common control with a Person, as such terms are used in and construed under Rule 405 under the Securities Act.

"Board of Directors" means the board of directors of the Company.

“Business Day” means any day except any Saturday, any Sunday, any day which is a federal legal holiday in the United States or any day on which banking institutions in the State of New York are authorized or required by law or other governmental action to close.

“Cap” shall have the meaning ascribed to such term in Section 5.2.

“Closing” means a closing of the purchase and sale of the Shares pursuant to Section 2.1.

“Closing Date” means a Trading Day on which all of the Transaction Documents have been executed and delivered by the Company and each of the Purchasers purchasing Shares at the relevant Closing, and all conditions precedent to (i) the Purchasers’ obligations to pay the Subscription Amount and (ii) the Company’s obligations to deliver the Shares, in each case, have been satisfied or waived, but in no event later than the third Trading Day following the relevant Closing.

“Commission” means the United States Securities and Exchange Commission.

“Common Stock” means the common stock of the Company, par value \$0.001 per share, and any other class of securities into which such securities may hereafter be reclassified or changed.

“Common Stock Equivalents” means any securities of the Company or the Subsidiaries which would entitle the holder thereof to acquire at any time Common Stock, including, without limitation, any debt, preferred stock, right, option, warrant or other instrument that is at any time convertible into or exercisable or exchangeable for, or otherwise entitles the holder thereof to receive, Common Stock.

“Company Counsel” means The Matt Law Firm, PLLC, with offices located at 1701 Genesee Street, Utica, NY 13501, Fax: 315-624-7359.

“Disclosure Schedules” means the Disclosure Schedules of the Company delivered concurrently herewith.

“Effective Date” means the earliest of the date that (a) the initial Registration Statement has been declared effective by the Commission, (b) all of the Offering Shares have been sold pursuant to Rule 144 or may be sold pursuant to Rule 144 without the requirement for the Company to be in compliance with the current public information requirements under Rule 144 and without volume or manner-of-sale restrictions or (c) following the one year anniversary of the final Closing Date hereunder, provided that a holder of Offering Shares is not an Affiliate of the Company, all of the Offering Shares may be sold pursuant to an exemption from registration under Section 4(a)(1) of the Securities Act without volume or manner-of-sale restrictions or the need for the Company to provide current public information and Company counsel has delivered to such holders a written opinion that resales may then be made by such holders of the Offering Shares pursuant to such exemption which opinion shall be in form and substance reasonably acceptable to such holders.

“Exchange Act” means the Securities Exchange Act of 1934, as amended, and the rules and regulations promulgated thereunder.

“FCPA” means the Foreign Corrupt Practices Act of 1977, as amended.

“GAAP” shall have the meaning ascribed to such term in Section 3.1(h).

“Indebtedness” shall have the meaning ascribed to such term in Section 3.1(y).

“Initial Closing” shall have the meaning ascribed to such term in Section 2.1(b).

“Initial Closing Date” shall have the meaning ascribed to such term in Section 2.1(b).

“Intellectual Property Rights” shall have the meaning ascribed to such term in Section 3.1(n).

“Liens” means a lien, charge, pledge, security interest, encumbrance, right of first refusal, preemptive right or other restriction.

“Material Adverse Effect” shall have the meaning assigned to such term in Section 3.1(b).

“Material Permits” shall have the meaning ascribed to such term in Section 3.1(l).

“Memorandum” means the Company’s Confidential Private Placement Memorandum, dated as of September 8, 2019, with respect to the Offering.

“Offering Shares” means the shares of Common Stock.

“Person” means an individual or corporation, partnership, trust, incorporated or unincorporated association, joint venture, limited liability company, joint stock company, government (or an agency or subdivision thereof) or other entity of any kind.

“Price Per Share” means \$1.75.

“Proceeding” means an action, claim, suit, investigation or proceeding (including, without limitation, an informal investigation or partial proceeding, such as a deposition), whether commenced or threatened.

“Purchaser Party” shall have the meaning ascribed to such term in Section 4.9.

“Registration Rights Agreement” means the Registration Rights Agreement, dated the date hereof, among the Company and the Purchasers, in the form of Exhibit B attached hereto.

“Registration Statement” means a registration statement meeting the requirements set forth in the Registration Rights Agreement and covering the resale of the Offering Shares by each Purchaser as provided for in the Registration Rights Agreement.

“Required Approvals” shall have the meaning ascribed to such term in Section 3.1(e).

“Required Minimum” shall have the meaning ascribed to such term in Section 4.10.

“Rule 144” means Rule 144 promulgated by the Commission pursuant to the Securities Act, as such Rule may be amended or interpreted from time to time, or any similar rule or regulation hereafter adopted by the Commission having substantially the same purpose and effect as such Rule.

“SEC Reports” shall have the meaning ascribed to such term in Section 3.1(h).

“Securities” means the Offering Shares.

“Securities Act” means the Securities Act of 1933, as amended, and the rules and regulations promulgated thereunder.

“Short Sales” means all “short sales” as defined in Rule 200 of Regulation SHO under the Exchange Act (but shall not be deemed to include the location and/or reservation of borrowable shares of Common Stock).

“Subscription Agreement” means the Subscription Agreement, dated the date hereof, among the Company and the Purchasers, in the form of Exhibit B attached hereto.

“Subscription Amount” means, as to each Purchaser, the aggregate amount to be paid for the Shares purchased hereunder as specified next to such Purchaser’s name on Appendix A of this Agreement under the heading “Subscription Amount”.

“Subsequent Closing Date” shall have the meaning ascribed to such term in Section 2.1(b).

“Subsidiary” means any direct or indirect subsidiary of the Company formed or acquired after the date hereof.

“Termination Date” shall have the meaning ascribed to such term in Section 2.1(a).

“Trading Day” means a day on which the principal Trading Market is open for trading; provided, that in the event that the Common Stock is not listed or quoted for trading on a Trading Market on the date in question, then Trading Day shall mean a Business Day.

“Trading Market” means any of the following markets or exchanges on which the Common Stock is listed or quoted for trading on the date in question: the NYSE MKT, the Nasdaq Capital Market, the Nasdaq Global Market, the Nasdaq Global Select Market, the New York Stock Exchange, the OTC Bulletin Board, the OTC QB Marketplace or the OTC QX Marketplace (or any successors to any of the foregoing).

“Transaction Documents” means this Agreement, the Memorandum, the Subscription Agreement, the Investor Warrants, the Registration Rights Agreement, all exhibits and schedules thereto and hereto and any other documents or agreements executed in connection with the transactions contemplated hereunder.

“Transfer Agent” means a transfer agent for the Company’s Common Stock and the Offering Shares, if any, and any successor transfer agent of the Company.

## **ARTICLE II. PURCHASE AND SALE**

### **2.1 Closing.**

(a) The Securities will be offered for sale until the earlier of (i) the date upon which subscriptions for the Maximum Offering offered hereunder have been accepted, (ii) September 30, 2019 (subject to the right of the Company to extend the offering until October 31, 2019 without further notice to investors), (iii) the date upon which the Company elects to terminate the Offering or (iv) the date upon which the Company elects to terminate the Offering (the “Termination Date”). The Offering is being conducted on a “*reasonable efforts*” basis with respect to the Maximum Offering.

(b) On the initial Closing Date (the “Initial Closing Date”), upon the terms and subject to the conditions set forth herein, substantially concurrent with the execution and delivery of this Agreement by the parties hereto, the Company agrees to sell at the initial Closing (the “Initial Closing”), and the Purchasers, severally and not jointly, agree to purchase at the Initial Closing, up to an aggregate of 1,142,857 Shares, for each Purchaser equal to such Purchaser’s Subscription Amount as set forth on Appendix A hereto. Thereafter, on any subsequent Closing Date (each a “Subsequent Closing Date”), upon the terms and subject to the conditions set forth herein, substantially concurrent with the execution and delivery of this Agreement by the Purchasers purchasing Shares on such Subsequent Closing Date, the Company agrees to sell, and each Purchaser purchasing Shares at such subsequent Closing, severally and not jointly, agrees to purchase an aggregate of up to 1,142,857 of Shares, calculated as set forth above, less the amount of Shares issued and sold at all previous Closings. Each Purchaser purchasing Shares on a Closing Date shall deliver to the Company such Purchaser’s Subscription Amount by wire transfer of immediately available funds in accordance with the Company’s written wire instructions, and the Company shall deliver to each Purchaser its respective Shares, as determined pursuant to Section 2.2(a), and the Company and each Purchaser shall deliver the other items set forth in Section 2.2 deliverable at the Closing. Upon satisfaction of the covenants and conditions set forth in Sections 2.2 and 2.3, a Closing shall occur at the offices of Company Counsel or such other location as the parties shall mutually agree.

(c) The last Closing of the Offering, occurring on or prior to the Termination Date, shall be referred to as the “Final Closing”. Any subscription documents or funds received after the Final Closing will be returned, without interest or deduction. If a Closing is not held on or before the Termination Date, the Company shall cause all subscription documents and funds to be returned, without interest or deduction, to each prospective Purchaser. The Company shall also cause any subscription documents or funds received following the final Closing to be returned, without interest or deduction, to each applicable prospective Purchaser. Notwithstanding the foregoing, the Company in its sole discretion may elect not to sell to any Person any or all of the Shares requested to be purchased hereunder, provided that the Company causes all corresponding subscription documents and funds received from such Person to be promptly returned.

(d) The Subscriber may revoke its subscription and obtain a return of the subscription amount paid to the Company at any time before the date of the Initial Closing by providing written notice to the Company. Upon receipt of a revocation notice from the Subscriber prior to the date of the Initial Closing, all amounts paid by the Subscriber shall be returned to the Subscriber, without interest or deduction. The Subscriber may not revoke this subscription or obtain a return of the subscription amount paid to the Company on or after the date of the Initial Closing. Any subscription received after the Initial Closing but prior to the Termination Date shall be irrevocable.

## 2.2 Deliveries.

(a) On or prior to each Closing Date, the Company shall deliver or cause to be delivered to each Purchaser purchasing Shares on such Closing Date each of the following:

- (i) this Agreement duly executed by the Company;
- (ii) the Subscription Agreement duly executed by the Company;

(iii) the Registration Rights Agreement duly executed by the Company;

(iv) (1) irrevocable instructions to the Transfer Agent authorizing the issuance of the shares of Common Stock. Within five (5) days following any Closing, the Company will deliver, unless otherwise requested by any Purchaser, one (1) certificate registered in such Purchaser's name representing the shares of Common Stock purchased by such Purchaser at such Closing; and

(v) a good standing certificate of the Company, dated within four Trading Days of the Closing Date, from the State of Nevada.

(b) On or prior to each Closing Date, each Purchaser purchasing Shares on such Closing Date shall deliver or cause to be delivered to the Company the following:

(i) the Subscription Agreement duly executed by such Purchaser; and

(ii) such Purchaser's Subscription Amount by wire transfer to the account specified in writing by the Company, which such Subscription Amount is a for a purchase of a minimum of 5,715 Shares at an aggregate minimum purchase price of \$10,000, unless the Company waives such requirement in its sole discretion.

### 2.3 Closing Conditions.

(a) The obligations of the Company hereunder in connection with each Closing are subject to the following conditions being met:

(i) the accuracy in all material respects on such Closing Date of the representations and warranties of the Purchasers contained herein (unless as of a specific date therein in which case they shall be accurate in all material respects as of such date);

(ii) all obligations, covenants and agreements of each Purchaser required to be performed at or prior to such Closing Date shall have been performed; and

(iii) the delivery by each Purchaser of the items set forth in Section 2.2(b) of this Agreement.

(b) The respective obligations of the Purchasers hereunder in connection with each Closing are subject to the following conditions being met:

(i) the accuracy in all material respects when made and on such Closing Date of the representations and warranties of the Company contained herein (unless as of a specific date therein in which case they shall be accurate in all material respects as of such date);

(ii) all obligations, covenants and agreements of the Company required to be performed at or prior to such Closing Date shall have been performed;

(iii) the delivery by the Company of the items set forth in Section 2.2(a) of this Agreement;

(iv) there shall have been no Material Adverse Effect with respect to the Company since the date hereof; and

(v) from the date hereof to such Closing Date, trading in the Common Stock shall not have been suspended by the Commission or the Company's principal Trading Market (except for any suspension of trading of limited duration agreed to by the Company, which suspension shall be terminated prior to the Closing), and, at any time prior to the Closing Date, trading in securities generally as reported by Bloomberg L.P. shall not have been suspended or limited, or minimum prices shall not have been established on securities whose trades are reported by such service, or on any Trading Market, nor shall a banking moratorium have been declared either by the United States or New York State authorities nor shall there have occurred any material outbreak or escalation of hostilities or other national or international calamity of such magnitude in its effect on, or any material adverse change in, any financial market which, in each case, in the reasonable good faith judgment of such Purchaser, makes it impracticable or inadvisable to purchase the Shares at such Closing.

### **ARTICLE III. REPRESENTATIONS AND WARRANTIES**

3.1 Representations and Warranties of the Company. Except as set forth in the Disclosure Schedules, which Disclosure Schedules shall be deemed a part hereof and shall qualify any representation made herein only to the extent of the disclosure contained in the corresponding section of the Disclosure Schedules, the Company hereby makes the following representations and warranties to each Purchaser:

(a) Subsidiaries. The Company has one subsidiary, Relmada Therapeutics, Inc., a Delaware corporation..

(b) Organization and Qualification. Each of the Company and its Subsidiaries is an entity duly incorporated or otherwise organized, validly existing and in good standing under the laws of the jurisdiction of its incorporation or organization, with the requisite power and authority to own and use its properties and assets and to carry on its business as currently conducted. Neither the Company nor any Subsidiary is in violation or default of any of the provisions of its respective certificate or articles of incorporation, bylaws or other organizational or charter documents. Each of the Company and its Subsidiaries is duly qualified to conduct business and is in good standing as a foreign corporation or other entity in each jurisdiction in which the nature of the business conducted or property owned by it makes such qualification necessary, except where the failure to be so qualified or in good standing, as the case may be, could not have or reasonably be expected to result in: (i) a material adverse effect on the legality, validity or enforceability of any Transaction Document, (ii) a material adverse effect on the results of operations, assets, business, prospects or condition (financial or otherwise) of the Company and the Subsidiaries, taken as a whole, or (iii) a material adverse effect on the Company's ability to perform in any material respect on a timely basis its obligations under any Transaction Document (any of (i), (ii) or (iii), a "Material Adverse Effect") and no Proceeding has been instituted in any such jurisdiction revoking, limiting or curtailing or seeking to revoke, limit or curtail such power and authority or qualification.

(c) Authorization; Enforcement. The Company has the requisite corporate power and authority to enter into and to consummate the transactions contemplated by this Agreement and each of the other Transaction Documents and otherwise to carry out its obligations hereunder and thereunder. The execution and delivery of this Agreement and each of the other Transaction Documents by the Company and the consummation by it of the transactions contemplated hereby and thereby have been duly authorized by all necessary action on the part of the Company and no further action is required by the Company, the Board of Directors or the Company's stockholders in connection herewith or therewith other than in connection with the Required Approvals. This Agreement and each other Transaction Document to which it is a party has been (or upon delivery will have been) duly executed by the Company and, when delivered in accordance with the terms hereof and thereof, will constitute the valid and binding obligation of the Company enforceable against the Company in accordance with its terms, except: (i) as limited by general equitable principles and applicable bankruptcy, insolvency, reorganization, moratorium and other laws of general application affecting enforcement of creditors' rights generally, (ii) as limited by laws relating to the availability of specific performance, injunctive relief or other equitable remedies and (iii) insofar as indemnification and contribution provisions may be limited by applicable law.

(d) No Conflicts. The execution, delivery and performance by the Company of this Agreement and the other Transaction Documents, the issuance and sale of the Securities and the consummation by it of the transactions contemplated hereby and thereby to which it is a party do not and will not: (i) conflict with or violate any provision of the Company's or any Subsidiary's certificate or articles of incorporation, bylaws or other organizational or charter documents, (ii) except as set forth on Schedule 3.1(d)(iii), conflict with, or constitute a default (or an event that with notice or lapse of time or both would become a default) under, result in the creation of any Lien upon any of the properties or assets of the Company or any Subsidiary, or give to others any rights of termination, amendment, acceleration or cancellation (with or without notice, lapse of time or both) of, any agreement, credit facility, debt or other instrument (evidencing a Company or Subsidiary debt or otherwise) or other understanding to which the Company or any Subsidiary is a party or by which any property or asset of the Company or any Subsidiary is bound or affected, or (iii) subject to the Required Approvals, conflict with or result in a violation of any law, rule, regulation, order, judgment, injunction, decree or other restriction of any court or governmental authority to which the Company or a Subsidiary is subject (including federal and state securities laws and regulations), or by which any property or asset of the Company or a Subsidiary is bound or affected; except in the case of each of clauses (ii) and (iii), such as could not have or reasonably be expected to result in a Material Adverse Effect.

(e) Filings, Consents and Approvals. Except as set forth on Schedule 3.1(e), the Company is not required to obtain any consent, waiver, authorization or order of, give any notice to, or make any filing or registration with, any court or other federal, state, local or other governmental authority or other Person in connection with the execution, delivery and performance by the Company of the Transaction Documents, other than: (i) the filing with the Commission pursuant to the Registration Rights Agreement and Section 4.6, (ii) the notice and/or application(s) to each applicable Trading Market, if any, for the issuance and sale of the Offering Shares and the listing of the Offering Shares for trading thereon in the time and manner required thereby, and (iii) the filing of a Form D with the Commission and such filings as are required to be made under applicable state securities laws (collectively, the "Required Approvals").

(f) Issuance of the Securities. The Securities are duly authorized and, when issued and paid for in accordance with the applicable Transaction Documents, will be duly and validly issued, fully paid and, if and as applicable, nonassessable, free and clear of all Liens imposed by the Company. The Company has reserved from its duly authorized capital stock a number of shares of Common Stock for issuance of the Offering Shares at least equal to the Required Minimum on the date hereof.

(g) Capitalization. The capitalization of the Company is as set forth on Schedule 3.1(g). The Company has not issued any capital stock and/or Common Stock Equivalents not set forth on Schedule 3.1(g). Except as set forth on Schedule 3.1(g), no Person has any right of first refusal, preemptive right, right of participation, or any similar right to participate in the transactions contemplated by the Transaction Documents. Except as a result of the purchase and sale of the Securities or as described on Schedule 3.1(g), there are no outstanding options, warrants, scrip rights to subscribe to, calls or commitments of any character whatsoever relating to, or securities, rights or obligations convertible into or exercisable or exchangeable for, or giving any Person any right to subscribe for or acquire any shares of Common Stock, or contracts, commitments, understandings or arrangements by which the Company or any Subsidiary is or may become bound to issue additional shares of Common Stock or Common Stock Equivalents. Except as set forth on Schedule 3.1(g), the issuance and sale of the Securities will not obligate the Company to issue shares of Common Stock or other securities to any Person (other than the Purchasers) and will not result in a right of any holder of securities of the Company to adjust the exercise, conversion, exchange or reset price under any of such securities. All of the outstanding shares of capital stock and other securities of the Company are duly authorized, validly issued, fully paid and nonassessable, have been issued in material compliance with all federal and state securities laws, and none of such outstanding shares was issued in violation of any preemptive rights or similar rights to subscribe for or purchase securities. No further approval or authorization of any stockholder, the Board of Directors or others is required for the issuance and sale of the Securities. Except for the Company's certificate of incorporation, there are no stockholders agreements, voting agreements or other similar agreements with respect to the Company's capital stock to which the Company is a party or, to the knowledge of the Company, between or among any of the Company's stockholders.

(h) Shell Company Status; SEC Reports; Financial Statements. The Company has never been an issuer subject to Rule 144(i) under the Securities Act. The Company has filed all reports, schedules, forms, statements and other documents required to be filed by the Company under the Securities Act and the Exchange Act, including pursuant to Section 13(a) or 15(d) thereof, for the two years preceding the date hereof (or such shorter period as the Company was required by law or regulation to file such material) (the foregoing materials, including the exhibits thereto and documents incorporated by reference therein, being collectively referred to herein as the "SEC Reports") on a timely basis or has received a valid extension of such time of filing and has filed any such SEC Reports prior to the expiration of any such extension. As of their respective dates, the SEC Reports complied in all material respects with the requirements of the Securities Act and the Exchange Act, as applicable, and none of the SEC Reports, when filed, contained any untrue statement of a material fact or omitted to state a material fact required to be stated therein or necessary in order to make the statements therein, in the light of the circumstances under which they were made, not misleading. The financial statements of the Company included in the SEC Reports comply in all material respects with applicable accounting requirements and the rules and regulations of the Commission with respect thereto as in effect at the time of filing. Such financial statements have been prepared in accordance with generally accepted accounting principles applied on a consistent basis during the periods involved ("GAAP"), except as may be otherwise specified in such financial statements or the notes thereto and except that unaudited financial statements may not contain all footnotes required by GAAP, and fairly present in all material respects the financial position of the Company and its consolidated Subsidiaries as of and for the dates thereof and the results of operations and cash flows for the periods then ended, subject, in the case of unaudited statements, to normal, immaterial, year-end audit adjustments.

(i) Material Changes; Undisclosed Events, Liabilities or Developments Since the date of the latest audited financial statements included within the SEC Reports, except as specifically disclosed in a subsequent SEC Report filed prior to the date hereof: (i) there has been no event, occurrence or development that has had or that could reasonably be expected to result in a Material Adverse Effect, (ii) the Company has not incurred any material liabilities (contingent or otherwise) other than (A) trade payables and accrued expenses incurred in the ordinary course of business consistent with past practice and (B) liabilities not required to be reflected in the Company's financial statements pursuant to GAAP or disclosed in filings made with the Commission, (iii) the Company has not altered its method of accounting, (iv) the Company has not declared or made any dividend or distribution of cash or other property to its stockholders or purchased, redeemed or made any agreements to purchase or redeem any shares of its capital stock, and (v) the Company has not issued any equity securities to any officer, director or Affiliate, except pursuant to existing Company stock option plans. Except for the issuance of the Securities contemplated by this Agreement, no event, liability, fact, circumstance, occurrence or development has occurred or exists or is reasonably expected to occur or exist with respect to the Company or its Subsidiaries or their respective businesses, properties, operations, assets or financial condition, that would be required to be disclosed by the Company under applicable securities laws at the time this representation is made or deemed made that has not been publicly disclosed at least one (1) Trading Day prior to the date that this representation is made.

(j) Litigation. There is no action, suit, inquiry, notice of violation, proceeding or investigation pending or, to the knowledge of the Company, threatened against or affecting the Company, any Subsidiary or any of their respective properties before or by any court, arbitrator, governmental or administrative agency or regulatory authority (federal, state, county, local or foreign) (collectively, an "Action") which (i) adversely affects or challenges the legality, validity or enforceability of any of the Transaction Documents or the Securities or (ii) could, if there were an unfavorable decision, have or reasonably be expected to result in a Material Adverse Effect. Except as described on Schedule 3.1(j), since December 31, 2018, neither the Company nor any Subsidiary, nor any director or officer thereof, is or has been the subject of any Action involving a claim of violation of or liability under federal or state securities laws or a claim of breach of fiduciary duty. There has not been, and to the knowledge of the Company, there is not pending or contemplated, any investigation by the Commission or any state securities administrator involving the Company or any current or former director or officer of the Company. The Commission has not issued any stop order or other order suspending the effectiveness of any registration statement filed by the Company or any Subsidiary under the Exchange Act or the Securities Act.

(k) Compliance. Neither the Company nor any Subsidiary: (i) is in default under or in violation of and no event has occurred that has not been waived that, with notice or lapse of time or is in violation of, any indenture, loan or credit agreement or any other agreement or instrument to which it is a party or by which it or any of its properties is bound (whether or not such default or violation has been waived), (x) is in violation of any judgment, decree or order of any court, arbitrator or other governmental authority or (ii) is or has been in violation of any statute, rule, ordinance or regulation of any governmental authority, including without limitation all foreign, federal, state and local laws relating to taxes, environmental protection, occupational health and safety, environmental health and safety, product quality and safety and employment and labor matters, except in each case as could not have or reasonably be expected to result in a Material Adverse Effect.

(l) Regulatory Permits. The Company and the Subsidiaries possess all certificates, authorizations and permits issued by the appropriate federal, state, local or foreign regulatory authorities necessary to conduct their respective businesses as presently conducted, except where the failure to possess such permits could not reasonably be expected to result in a Material Adverse Effect (“Material Permits”), and neither the Company nor any Subsidiary has received any notice of proceedings relating to the revocation or modification of any Material Permit.

(m) Title to Assets. Except as described on Schedule 3.1(m), the Company and the Subsidiaries have good and marketable title in fee simple to all real property owned by them and good and marketable title in all personal property owned by them that is material to the business of the Company and the Subsidiaries, in each case free and clear of all Liens, except for (i) Liens as do not materially affect the value of such property and do not materially interfere with the use made and proposed to be made of such property by the Company and the Subsidiaries and (ii) Liens for the payment of federal, state or other taxes, for which appropriate reserves have been made in accordance with GAAP, and the payment of which is neither delinquent nor subject to penalties. Any real property and facilities held under lease by the Company and the Subsidiaries are held by them under valid, subsisting and enforceable leases with which the Company and the Subsidiaries are in compliance.

(n) Intellectual Property.

(i) The term “Intellectual Property Rights” includes:

1. the name of the Company, all fictional business names, trading names, registered and unregistered trademarks, service marks, and applications (collectively, “Marks”);
2. all patents, patent applications, and inventions and discoveries that may be patentable (collectively, “Patents”);
3. all copyrights in both published works and unpublished works (collectively, “Copyrights”);
4. all rights in mask works (collectively, “Rights in Mask Works”); and
5. all know-how, trade secrets, confidential information, customer lists, software, technical information, data, process technology, plans, drawings, and blue prints (collectively, “Trade Secrets”) owned, used, or licensed by the Company as licensee or licensor.

(ii) Agreements. Schedule 3.1(n) contains a complete and accurate list of all contracts relating to the Intellectual Property Rights to which the Company is a party or by which the Company is bound, except for any license implied by the sale of a product and perpetual, paid-up licenses for commonly available software programs with a value of less than \$10,000 under which the Company is the licensee. There are no outstanding and, to the Company’s knowledge, no threatened disputes or disagreements with respect to any such agreement.

(iii) Know-How Necessary for the Business The Intellectual Property Rights are all those necessary for the operation of the Company's businesses as it is currently conducted or as represented, in writing, to the Purchasers to be conducted. The Company is the owner of all right, title, and interest in and to each of the Intellectual Property Rights, free and clear of all liens, security interests, charges, encumbrances, equities, and other adverse claims, and has the right to use all of the Intellectual Property Rights. To the Company's knowledge, no employee of the Company has entered into any contract that restricts or limits in any way the scope or type of work in which the employee may be engaged or requires the employee to transfer, assign, or disclose information concerning his work to anyone other than of the Company.

(iv) Know-How Necessary for the Business Schedule 3.1(n) contains a complete and accurate list of all Patents. Except as set forth on Schedule 3.1(j), the Company is the owner of all right, title and interest in and to each of the Patents, free and clear of all Liens and other adverse claims. All of the issued Patents are currently in compliance with formal legal requirements (including payment of filing, examination, and maintenance fees and proofs of working or use), are valid and enforceable, and are not subject to any maintenance fees or taxes or actions falling due within ninety days after the Initial Closing Date. No Patent has been or is now involved in any interference, reissue, reexamination, or opposition proceeding. To the Company's knowledge: (1) there is no potentially interfering patent or patent application of any third party, and (2) no Patent is infringed or has been challenged or threatened in any way. To the Company's knowledge, none of the products manufactured and sold, nor any process or know-how used, by the Company infringes or is alleged to infringe any patent or other proprietary right of any other Person.

(v) Trademarks, Schedule 3.1(n) contains a complete and accurate list and summary description of all Marks. The Company is the owner of all right, title, and interest in and to each of the Marks, free and clear of all Liens and other adverse claims. All Marks that have been registered with the United States Patent and Trademark Office are currently in compliance with all formal legal requirements (including the timely post-registration filing of affidavits of use and incontestability and renewal applications), are valid and enforceable, and are not subject to any maintenance fees or taxes or actions falling due within ninety days after the Initial Closing Date. Except as set forth in Schedule 3.1(n), no Mark has been or is now involved in any opposition, invalidation, or cancellation and, to the Company's knowledge, no such action is threatened with respect to any of the Marks. To the Company's knowledge: (1) there is no potentially interfering trademark or trademark application of any third party, and (2) no Mark is infringed or has been challenged or threatened in any way. To the Company's knowledge, none of the Marks used by the Company infringes or is alleged to infringe any trade name, trademark, or service mark of any third party.

(vi) Copyrights, Schedule 3.1(n) contains a complete and accurate list of all Copyrights. The Company is the owner of all right, title, and interest in and to each of the Copyrights, free and clear of all Liens and other adverse claims. All the Copyrights have been registered and are currently in compliance with formal requirements, are valid and enforceable, and are not subject to any maintenance fees or taxes or actions falling due within ninety days after the date of the Initial Closing. No Copyright is infringed or, to the Company's knowledge, has been challenged or threatened in any way. To the Company's knowledge, none of the subject matter of any of the Copyrights infringes or is alleged to infringe any copyright of any third party or is a derivative work based on the work of a third party. All works encompassed by the Copyrights have been marked with the proper copyright notice.

(vii) Trade Secrets. With respect to each Trade Secret, the documentation relating to such Trade Secret is current, accurate, and sufficient in detail and content to identify and explain it and to allow its full and proper use without reliance on the knowledge or memory of any individual. The Company has taken all reasonable precautions to protect the secrecy, confidentiality, and value of its Trade Secrets. The Company has good title and an absolute (but not necessarily exclusive) right to use the Trade Secrets. The Trade Secrets are not part of the public knowledge or literature, and, to the Company's knowledge, have not been used, divulged, or appropriated either for the benefit of any Person (other than the Company) or to the detriment of the Company. No Trade Secret is subject to any adverse claim or has been challenged or threatened in any way.

(o) Insurance. The Company and the Subsidiaries are insured by insurers of recognized financial responsibility against such losses and risks and in such amounts as are prudent and customary in the businesses in which the Company and the Subsidiaries are engaged, including, but not limited to, directors and officers insurance coverage at least equal to the aggregate Subscription Amount. Neither the Company nor any Subsidiary has any reason to believe that it will not be able to renew its existing insurance coverage as and when such coverage expires or to obtain similar coverage from similar insurers as may be necessary to continue its business without a significant increase in cost.

(p) Transactions With Affiliates and Employees. Except as set forth in the SEC Reports, none of the officers or directors of the Company or any Subsidiary and, to the knowledge of the Company, none of the employees of the Company or any Subsidiary is presently a party to any transaction with the Company or any Subsidiary (other than for services as employees, officers and directors), including any contract, agreement or other arrangement providing for the furnishing of services to or by, providing for rental of real or personal property to or from, providing for the borrowing of money from or lending of money to or otherwise requiring payments to or from any officer, director or such employee or, to the knowledge of the Company, any entity in which any officer, director, or any such employee has a substantial interest or is an officer, director, trustee, stockholder, member or partner, in each case in excess of \$100,000 other than for: (i) payment of salary or consulting fees for services rendered, (ii) reimbursement for expenses incurred on behalf of the Company and (iii) other employee benefits, including stock option agreements under any stock option plan of the Company.

(q) No General Solicitation. Neither the Company nor any person acting on behalf of the Company has offered or sold any of the Securities by any form of general solicitation or general advertising. The Company has offered the Securities for sale only to the Purchasers and certain other "accredited investors" within the meaning of Rule 501 under the Securities Act.

(r) Certain Fees. No brokerage, finder's fees, commissions or due diligence fees are or will be payable by the Company or any Subsidiary to any broker, financial advisor or consultant, finder, placement agent, investment banker, bank or other Person with respect to the transactions contemplated by the Transaction Documents except for the fees payable as set forth in the Memorandum and on Schedule 3.1(r). The Purchasers shall have no obligation with respect to any fees or with respect to any claims made by or on behalf of other Persons for fees of a type contemplated in this Section 3.1(r) that may be due in connection with the transactions contemplated by the Transaction Documents.

(s) Investment Company. The Company is not, and is not an Affiliate of, and immediately after receipt of payment for the Securities, will not be or be an Affiliate of, an “investment company” within the meaning of the Investment Company Act of 1940, as amended. The Company shall conduct its business in a manner so that it will not become an “investment company” subject to registration under the Investment Company Act of 1940, as amended.

(t) Registration Rights. Except as described in the Memorandum, no Person other than the Purchasers has any right to cause the Company or any Subsidiary to effect the registration under the Securities Act of any securities of the Company or any Subsidiary.

(u) Private Placement. Assuming the accuracy of the Purchasers’ representations and warranties set forth in Section 3.2 and in the Subscription Agreement entered into by each Purchaser in connection with this Agreement, no registration under the Securities Act is required for the offer and sale of the Securities by the Company to the Purchasers as contemplated hereby.

(v) Application of Takeover Protections. The Company and the Board of Directors have taken all necessary action, if any, in order to render inapplicable any control share acquisition, business combination, poison pill (including any distribution under a rights agreement) or other similar anti-takeover provision under the Company’s certificate of incorporation (or similar charter documents) or the laws of its state of incorporation that is or could become applicable to the Purchasers as a result of the Purchasers and the Company fulfilling their obligations or exercising their rights under the Transaction Documents, including without limitation as a result of the Company’s issuance of the Securities and the Purchasers’ ownership of the Securities.

(w) Disclosure. Except with respect to the material terms and conditions of the transactions contemplated by the Transaction Documents, the Company confirms that neither it nor any other Person acting on its behalf has provided any of the Purchasers or their agents or counsel with any information that it believes constitutes or might constitute material, non-public information. The Company understands and confirms that the Purchasers will rely on the foregoing representation in effecting transactions in securities of the Company. All of the disclosure furnished by or on behalf of the Company to the Purchasers regarding the Company and its Subsidiaries, their respective businesses and the transactions contemplated hereby, including the Disclosure Schedules to this Agreement, when taken together as a whole, is true and correct and does not contain any untrue statement of a material fact or omit to state any material fact necessary in order to make the statements made therein, in light of the circumstances under which they were made, not misleading. The Company acknowledges and agrees that no Purchaser makes or has made any representations or warranties with respect to the transactions contemplated hereby other than those specifically set forth in Section 3.2 hereof.

(x) No Integrated Offering. Assuming the accuracy of the Purchasers’ representations and warranties set forth in Section 3.2, neither the Company, nor any of its Affiliates, nor any Person acting on its or their behalf has, directly or indirectly, made any offers or sales of any security or solicited any offers to buy any security, under circumstances that would cause this offering of the Securities to be integrated with prior offerings by the Company for purposes of the Securities Act which would require the registration of any such securities under the Securities Act.

(y) Solvency. Based on the consolidated financial condition of the Company as of the Closing Date, and the Company's good faith estimate of the fair market value of its assets, after giving effect to the receipt by the Company of the proceeds from the sale of the Securities hereunder: (i) the fair saleable value of the Company's assets exceeds the amount that will be required to be paid on or in respect of the Company's existing debts and other liabilities (including known contingent liabilities) as they mature, (ii) the Company's assets do not constitute unreasonably small capital to carry on its business as now conducted and as proposed to be conducted including its capital needs taking into account the particular capital requirements of the business conducted by the Company, consolidated and projected capital requirements and capital availability thereof, and (iii) the current cash flow of the Company, together with the proceeds the Company would receive, were it to liquidate all of its assets, after taking into account all anticipated uses of the cash, would be sufficient to pay all amounts on or in respect of its liabilities when such amounts are required to be paid. The Company does not intend to incur debts beyond its ability to pay such debts as they mature (taking into account the timing and amounts of cash to be payable on or in respect of its debt). The Company has no knowledge of any facts or circumstances which lead it to believe that it will file for reorganization or liquidation under the bankruptcy or reorganization laws of any jurisdiction within one year from the Initial Closing Date. Schedule 3.1(y) sets forth as of the date hereof all outstanding secured and unsecured Indebtedness of the Company or any Subsidiary, or for which the Company or any Subsidiary has commitments. For the purposes of this Agreement, "Indebtedness" means (x) any liabilities for borrowed money or amounts owed in excess of \$250,000 (other than trade accounts payable incurred in the ordinary course of business), (y) all guaranties, endorsements and other contingent obligations in respect of indebtedness of others, whether or not the same are or should be reflected in the Company's consolidated balance sheet (or the notes thereto), except guaranties by endorsement of negotiable instruments for deposit or collection or similar transactions in the ordinary course of business; and (z) the present value of any lease payments in excess of \$250,000 due under leases required to be capitalized in accordance with GAAP. Neither the Company nor any Subsidiary is in default with respect to any Indebtedness.

(z) Tax Status. Except for matters that would not, individually or in the aggregate, have or reasonably be expected to result in a Material Adverse Effect, the Company and its Subsidiaries each (i) has made or filed all United States federal, state and local income and all foreign income and franchise tax returns, reports and declarations required by any jurisdiction to which it is subject, (ii) has paid all taxes and other governmental assessments and charges that are material in amount, shown or determined to be due on such returns, reports and declarations and (iii) has set aside on its books provision reasonably adequate for the payment of all material taxes for periods subsequent to the periods to which such returns, reports or declarations apply. There are no unpaid taxes in any material amount claimed to be due by the taxing authority of any jurisdiction, and the officers of the Company or of any Subsidiary know of no basis for any such claim.

(aa) Foreign Corrupt Practices. Neither the Company nor any Subsidiary, nor to the knowledge of the Company or any Subsidiary, any agent or other person acting on behalf of the Company or any Subsidiary, has: (i) directly or indirectly, used any funds for unlawful contributions, gifts, entertainment or other unlawful expenses related to foreign or domestic political activity, (ii) made any unlawful payment to foreign or domestic government officials or employees or to any foreign or domestic political parties or campaigns from corporate funds, (iii) failed to disclose fully any contribution made by the Company or any Subsidiary (or made by any person acting on its behalf of which the Company is aware) which is in violation of law or (iv) violated in any material respect any provision of FCPA.

(bb) Acknowledgment Regarding Purchasers' Purchase of Securities. The Company acknowledges and agrees that each of the Purchasers is acting solely in the capacity of an arm's length purchaser with respect to the Transaction Documents and the transactions contemplated thereby. The Company further acknowledges that no Purchaser is acting as a financial advisor or fiduciary of the Company (or in any similar capacity) with respect to the Transaction Documents and the transactions contemplated thereby and any advice given by any Purchaser or any of their respective representatives or agents in connection with the Transaction Documents and the transactions contemplated thereby is merely incidental to the Purchasers' purchase of the Securities. The Company further represents to each Purchaser that the Company's decision to enter into this Agreement and the other Transaction Documents has been based solely on the independent evaluation of the transactions contemplated hereby by the Company and its representatives.

(cc) Money Laundering. The operations of the Company and its Subsidiaries are and have been conducted at all times in compliance with applicable financial record-keeping and reporting requirements of the Currency and Foreign Transactions Reporting Act of 1970, as amended, applicable money laundering statutes and applicable rules and regulations thereunder (collectively, the "Money Laundering Laws"), and no action, suit or proceeding by or before any court or governmental agency, authority or body or any arbitrator involving the Company or any Subsidiary with respect to the Money Laundering Laws is pending or, to the knowledge of the Company or any Subsidiary, threatened.

(dd) Stock Option Plans. Each stock option granted by the Company under the Company's stock option plan was granted (i) in accordance with the terms of the Company's stock option plan and (ii) with an exercise price at least equal to the fair market value of the Common Stock on the date such stock option would be considered granted under GAAP and applicable law. No stock option granted under the Company's stock option plan has been backdated.

(ee) Sarbanes-Oxley: Internal Accounting Controls. The Company is in material compliance with all provisions of the Sarbanes-Oxley Act of 2002 which are applicable to it as of the Closing Date. The Company and the Subsidiaries maintain a system of internal accounting controls sufficient to provide reasonable assurance that: (i) transactions are executed in accordance with management's general or specific authorizations, (ii) transactions are recorded as necessary to permit preparation of financial statements in conformity with GAAP and to maintain asset accountability, (iii) access to assets is permitted only in accordance with management's general or specific authorization, and (iv) the recorded accountability for assets is compared with the existing assets at reasonable intervals and appropriate action is taken with respect to any differences. The Company has established disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) for the Company and designed such disclosure controls and procedures to ensure that information required to be disclosed by the Company in the reports it files or submits under the Exchange Act is recorded, processed, summarized and reported, within the time periods specified in the Commission's rules and forms. The Company's certifying officers have evaluated the effectiveness of the Company's disclosure controls and procedures as of the end of the period covered by the Company's most recently filed periodic report under the Exchange Act (such date, the "Evaluation Date"). The Company presented in its most recently filed periodic report under the Exchange Act the conclusions of the certifying officers about the effectiveness of the disclosure controls and procedures based on their evaluations as of the Evaluation Date. Since the Evaluation Date, there have been no changes in the Company's internal control over financial reporting (as such term is defined in the Exchange Act) that has materially affected, or is reasonably likely to materially affect, the Company's internal control over financial reporting.

(ff) Listing and Maintenance Requirements. The Common Stock is registered pursuant to Section 12(b) or 12(g) of the Exchange Act, and the Company has taken no action designed to, or which to its knowledge is likely to have the effect of, terminating the registration of the Common Stock under the Exchange Act nor has the Company received any notification that the Commission is contemplating terminating such registration. The Company has not, in the 12 months preceding the date hereof, received notice from any Trading Market on which the Common Stock is or has been listed or quoted to the effect that the Company is not in compliance with the listing or maintenance requirements of such Trading Market. The Company is, and has no reason to believe that it will not in the foreseeable future continue to be, in compliance with all such listing and maintenance requirements.

(gg) Regulation M Compliance. The Company has not, and to its knowledge no one acting on its behalf has, (i) taken, directly or indirectly, any action designed to cause or to result in the stabilization or manipulation of the price of any security of the Company to facilitate the sale or resale of any of the Securities, (ii) sold, bid for, purchased, or paid any compensation for soliciting purchases of, any of the securities of the Company, or (iii) paid or agreed to pay to any Person any compensation for soliciting another to purchase any other securities of the Company, other than, in the case of clauses (ii) and (iii), compensation paid to the Company's placement agent in connection with the placement of the Securities.

(hh) DTC Status. The Company's transfer agent (the "Transfer Agent") is a participant in and the Common Stock is eligible for transfer pursuant to the Depository Trust Company Automated Securities Transfer Program.

(ii) OFAC. Neither the Company nor, to the Company's knowledge, any director, officer, agent, employee, affiliate or person acting on its behalf, is currently subject to any U.S. sanctions administered by the Office of Foreign Assets Control of the U.S. Treasury Department ("OFAC"); and the Company will not directly or indirectly use the proceeds of the sale of the Shares, or lend, contribute or otherwise make available such proceeds to any joint venture partner or other person or entity, towards any sales or operations in Cuba, Iran, Syria, Sudan, Myanmar or any other country sanctioned by OFAC or for the purpose of financing the activities of any person currently subject to any U.S. sanctions.

(j) FDA. As to each product subject to the jurisdiction of the U.S. Food and Drug Administration (“FDA”) under the Federal Food, Drug, and Cosmetic Act, as amended, and the regulations thereunder (“FDCA”) that is manufactured, packaged, labeled, stored, tested, distributed, sold, and/or marketed by the Company (each such product, a “Pharmaceutical Product”), such Pharmaceutical Product is being manufactured, packaged, labeled, stored, tested, distributed, sold and/or marketed by the Company in compliance with all applicable requirements under FDCA and similar laws, rules and regulations relating to registration, investigational use, premarket application approval, good manufacturing practices, good laboratory practices, good clinical practices (GCPs), product listing, quotas, labeling, advertising, record keeping and filing of reports, except where the failure to be in compliance would not have or reasonably be expected to result in a Material Adverse Effect. All clinical trials conducted by or on behalf of the Company have been, and are being, conducted in compliance in all material respects with the applicable requirements of GCPs, informed consent and all other applicable requirements relating to protection of human subjects specifically contained in 21 CFR Parts 312, 50, 54, 56 and 11. The Company has filed with the FDA or other appropriate governmental entity all required notices, and annual or other reports, including notices of adverse experiences and reports of serious and unexpected adverse experiences, related to the use of Pharmaceutical Product in clinical trials. The Company has not received any notice that any Institutional Review Board or Ethics Committee has initiated or threatened to initiate any action to suspend any clinical trial or otherwise restrict any clinical trial of any Pharmaceutical Product. There is no pending, completed or, to the Company’s knowledge, threatened, action (including any lawsuit, arbitration, or legal or administrative or regulatory proceeding, charge, complaint, or investigation) against the Company, and the Company has not received any notice, warning letter or other communication from the FDA or any other governmental entity, which (i) contests the registration, approval, uses, distribution, manufacturing or packaging, testing, sale, or the labeling and promotion of any Pharmaceutical Product, (ii) withdraws its approval of, requests the recall, suspension, or seizure of, or withdraws or orders the withdrawal of advertising or sales promotional materials relating to, any Pharmaceutical Product, (iii) imposes a clinical hold on any clinical investigation by the Company, (iv) enjoins production at any facility of the Company or any third party facility where the Pharmaceutical Product is manufactured, (v) enters or proposes to enter into a consent decree of permanent injunction with the Company, or (vi) otherwise alleges any violation of any laws, rules or regulations by the Company, and which, either individually or in the aggregate, would have or reasonably be expected to result in a Material Adverse Effect. The properties, business and operations of the Company have been and are being conducted in all material respects in accordance with all applicable laws, rules and regulations of the FDA and any other governmental entity. The Company has not been informed by the FDA or any other governmental entity that the FDA or any other governmental entity will prohibit the testing, distribution, marketing, sale, license or use of any product proposed to be developed, produced, tested, distributed or marketed by the Company nor has the FDA or any other governmental entity expressed any concern as to approving for marketing any product being developed or proposed to be developed by the Company. Neither the Company nor any of its officers, employees, agents or clinical investigators has committed any act, made any statement or failed to make any statement that would reasonably be expected to provide a basis for the FDA to invoke its policy with respect to “Fraud, Untrue Statements of Material Facts, Bribery, and Illegal Gratuities” set forth in 56 Fed. Reg. 46191 (Sept. 10, 1991) and any amendments thereto. Neither the Company nor any officer, employee, independent contractor, or agent of the Company has been convicted of any crime or engaged in any conduct that has resulted in or would reasonably be expected to result in (i) debarment under 21 U.S.C. Section 335a or any similar state law or (ii) exclusion under 42 U.S.C. Section 1320a-7 or any similar state law or regulation.

(kk) Health Care Laws. The Company has operated and currently is in compliance in all material respects with all applicable Health Care Laws (defined herein), including, without limitation, the rules and regulations of the FDA, the U.S. Department of Health and Human Services Office of Inspector General, the Centers for Medicare & Medicaid Services, the Office for Civil Rights, the Department of Justice or any other governmental agency or body having jurisdiction over the Company or any of its properties, and has not engaged in activities which are, as applicable, cause for false claims liability, civil penalties, or mandatory or permissive exclusion from Medicare, Medicaid, or any other state or federal health care program. For purposes of this Agreement, “Health Care Laws” shall mean the federal Antikickback Statute (42 U.S.C. § 1320a-7b(b)), the Physician Payment Sunshine Act (42 U.S.C. § 1320a-7h), the civil False Claims Act (31 U.S.C. §§ 3729 et seq.), the criminal False Claims Act (42 U.S.C. § 1320a-7b(a)), all criminal laws relating to health care fraud and abuse, including but not limited to 18 U.S.C. Sections 286 and 287, and the health care fraud criminal provisions under the Health Insurance Portability and Accountability Act of 1996 (42 U.S.C. §1320d et seq.) (“HIPAA”), the exclusion laws (42 U.S.C. § 1320a-7), the civil monetary penalties law (42 U.S.C. § 1320a-7a), HIPAA, as amended by the Health Information Technology for Economic and Clinical Health Act (42 U.S.C. §§ 17921 et seq.), the patient privacy, data security and breach notification provisions under HIPAA, the Federal Food, Drug, and Cosmetic Act (21 U.S.C. §§ 301 et seq.), Medicare (Title XVIII of the Social Security Act), Medicaid (Title XIX of the Social Security Act), the regulations promulgated pursuant to such laws, and any other similar local, state or federal law and regulations. The Company has not received any FDA Form 483, notice of adverse finding, warning letter, untitled letter or other correspondence, communication or notice from the FDA or any other governmental or regulatory authority alleging or asserting noncompliance with any Health Care Laws applicable to the Company. The Company is not a party to nor has any ongoing reporting obligations pursuant to any corporate integrity agreements, deferred prosecution agreements, monitoring agreements, consent decrees, settlement orders, plans of correction or similar agreements with or imposed by any governmental or regulatory authority. Neither the Company nor any of its employees, officers, directors or, to the Company’s knowledge, consultants has been excluded, suspended or debarred from participation in any U.S. state or federal health care program or human clinical research or, to the Company’s knowledge, is subject to a governmental inquiry, investigation, proceeding, or other similar action that could reasonably be expected to result in debarment, suspension, or exclusion

(ll) Bad Actor Disqualification.

(i) No Disqualification Events. With respect to Securities to be offered and sold hereunder in reliance on Rule 506 under the Securities Act (“Regulation D Securities”), none of the Company, any of its predecessors, any affiliated issuer, any director, executive officer, other officer of the Company participating in the offering, any beneficial owner of 20% or more of the Company’s outstanding voting equity securities, calculated on the basis of voting power, nor any promoter (as that term is defined in Rule 405 under the Securities Act) connected with the Company in any capacity at the time of sale (each, an “Issuer Covered Person” and, together, “Issuer Covered Persons”) is subject to any of the “Bad Actor” disqualifications described in Rule 506(d)(1)(i) to (viii) under the Securities Act (a “Disqualification Event”), except for a Disqualification Event covered by Rule 506(d)(2) or (d)(3). The Company has exercised reasonable care to determine whether any Issuer Covered Person is subject to a Disqualification Event. The Company has complied, to the extent applicable, with its disclosure obligations under Rule 506(e), and has furnished to the Company and the Subscriber a copy of any disclosures provided thereunder.

(ii) Other Covered Persons. The Company is not aware of any person that (i) has been or will be paid (directly or indirectly) remuneration for solicitation of purchasers in connection with the sale of the Securities and (ii) who is subject to a Disqualification Event.

(iii) Notice of Disqualification Events. The Company will notify the Company in writing of (i) any Disqualification Event relating to any Issuer Covered Person and (ii) any event that would, with the passage of time, become a Disqualification Event relating to any Issuer Covered Person, prior to any Closing of this Offering.

3.2 Representations and Warranties of the Purchasers. Each of the Purchasers hereby severally, and not jointly, represents and warrants to the Company that each such Purchaser's representations and warranties in such Purchaser's Subscription Agreement entered into in connection with this Agreement are true and correct as of the applicable Closing, and such representations and warranties are deemed repeated as if contained herein.

The Company acknowledges and agrees that the representations contained in Section 3.2 shall not modify, amend or affect such Purchaser's right to rely on the Company's representations and warranties contained in this Agreement or any representations and warranties contained in any other Transaction Document or any other document or instrument executed and/or delivered in connection with this Agreement or the consummation of the transaction contemplated hereby.

**ARTICLE IV.  
OTHER AGREEMENTS OF THE PARTIES**

4.1 Transfer Restrictions.

(a) The Securities may only be disposed of in compliance with state and federal securities laws. In connection with any transfer of Securities other than pursuant to an effective registration statement or Rule 144, to the Company or to an Affiliate of a Purchaser or in connection with a pledge as contemplated in Section 4.1(b), the Company may require the transferor thereof to provide to the Company an opinion of counsel selected by the transferor and reasonably acceptable to the Company, the form and substance of which opinion shall be reasonably satisfactory to the Company, to the effect that such transfer does not require registration of such transferred Securities under the Securities Act. As a condition of transfer, any such transferee shall agree in writing to be bound by the terms of this Agreement and the Registration Rights Agreement and shall have the rights and obligations of a Purchaser under this Agreement and the Registration Rights Agreement.

(b) The Purchasers agree to the imprinting, so long as is required by this Section 4.1, of a legend on any of the Securities in the following form:

[NEITHER] THIS SECURITY [NOR THE SECURITIES FOR WHICH THIS SECURITY IS EXERCISABLE] [HAS NOT] [HAVE] BEEN REGISTERED WITH THE SECURITIES AND EXCHANGE COMMISSION OR THE SECURITIES COMMISSION OF ANY STATE IN RELIANCE UPON AN EXEMPTION FROM REGISTRATION UNDER THE SECURITIES ACT OF 1933, AS AMENDED (THE "SECURITIES ACT"), AND, ACCORDINGLY, MAY NOT BE OFFERED OR SOLD EXCEPT PURSUANT TO AN EFFECTIVE REGISTRATION STATEMENT UNDER THE SECURITIES ACT OR PURSUANT TO AN AVAILABLE EXEMPTION FROM, OR IN A TRANSACTION NOT SUBJECT TO, THE REGISTRATION REQUIREMENTS OF THE SECURITIES ACT AND IN ACCORDANCE WITH APPLICABLE STATE SECURITIES LAWS AS EVIDENCED BY A LEGAL OPINION OF COUNSEL TO THE TRANSFEROR TO SUCH EFFECT, THE SUBSTANCE OF WHICH SHALL BE REASONABLY ACCEPTABLE TO THE COMPANY. THIS SECURITY [AND THE SECURITIES ISSUABLE UPON EXERCISE OF THIS SECURITY] MAY BE PLEDGED IN CONNECTION WITH A BONA FIDE MARGIN ACCOUNT WITH A REGISTERED BROKER-DEALER OR OTHER LOAN WITH A FINANCIAL INSTITUTION THAT IS AN "ACCREDITED INVESTOR" AS DEFINED IN RULE 501(a) UNDER THE SECURITIES ACT OR OTHER LOAN SECURED BY SUCH SECURITIES.

The Company acknowledges and agrees that a Purchaser may from time to time pledge pursuant to a bona fide margin agreement with a registered broker-dealer or grant a security interest in some or all of the Securities to a financial institution that is an “accredited investor” as defined in Rule 501(a) under the Securities Act and who agrees to be bound by the provisions of this Agreement and the Registration Rights Agreement and, if required under the terms of such arrangement, such Purchaser may transfer, pledge or secure Securities to the pledgees or secured parties. Such a pledge or transfer would not be subject to approval of the Company and no legal opinion of legal counsel of the pledgee, secured party or pledgor shall be required in connection therewith. Further, no notice shall be required of such pledge. At the applicable Purchaser’s expense, the Company will execute and deliver such reasonable documentation as a pledgee or secured party of Securities may reasonably request in connection with a pledge or transfer of the Securities, including, if the Securities are subject to registration pursuant to the Registration Rights Agreement, the preparation and filing of any required prospectus supplement under Rule 424(b)(3) under the Securities Act or other applicable provision of the Securities Act to appropriately amend the list of selling stockholders thereunder.

(c) Certificates evidencing the Offering Shares shall not contain any legend (including the legend set forth in Section 4.1(b) hereof): (i) while a registration statement (including the Registration Statement) covering the resale of such security is effective under the Securities Act, (ii) following any sale of such Offering Shares pursuant to Rule 144, (iii) if such Offering Shares are eligible for sale under Rule 144, without the requirement for the Company to be in compliance with the current public information required under Rule 144 as to such Offering Shares and without volume or manner-of-sale restrictions, (iv) if such legend is not required under applicable requirements of the Securities Act (including judicial interpretations and pronouncements issued by the staff of the Commission) or (v) following the Effective Date. Upon the receipt by the Company of any reasonable certifications from the Purchasers requested by the Company with respect to future sales of such Offering Shares, the Company shall cause its counsel to issue a legal opinion to the Transfer Agent if required by the Transfer Agent to effect the removal of the legend hereunder. The Company agrees that following such time as such legend is no longer required under this Section 4.1(c), it will, as soon as practicable following the delivery by a Purchaser to the Company or the Transfer Agent of a certificate representing Offering Shares issued with a restrictive legend and, in each case, any reasonable certifications from the Purchaser requested by the Company or the Company’s counsel in order to effectuate a legend removal, deliver or cause to be delivered to such Purchaser a certificate representing such shares that is free from all restrictive and other legends. The Company may not make any notation on its records or give instructions to the Transfer Agent that enlarge the restrictions on transfer set forth in this Section 4. Certificates for Offering Shares subject to legend removal hereunder shall be transmitted by the Transfer Agent to the Purchaser by crediting the account of the Purchaser’s prime broker with the Depository Trust Company System as directed by such Purchaser if the Company is then a participant in such system.

(d) Each Purchaser, severally and not jointly with the other Purchasers, agrees with the Company that such Purchaser will sell any Securities pursuant to either the registration requirements of the Securities Act, including any applicable prospectus delivery requirements, or an exemption therefrom, and that if Securities are sold pursuant to a Registration Statement, they will be sold in compliance with the plan of distribution set forth therein, and acknowledges that the removal of the restrictive legend from certificates representing Securities as set forth in this Section 4.1 is predicated upon the Company’s reliance upon this understanding.

4.2 Acknowledgment of Dilution. The Company acknowledges that the issuance of the Securities may result in dilution of the outstanding shares of Common Stock, which dilution may be substantial under certain market conditions. The Company further acknowledges that its obligations under the Transaction Documents, including, without limitation, its obligation to issue the Investor Warrant Shares pursuant to the Transaction Documents, are unconditional and absolute and not subject to any right of set off, counterclaim, delay or reduction, regardless of the effect of any such dilution or any claim the Company may have against any Purchaser and regardless of the dilutive effect that such issuance may have on the ownership of the other stockholders of the Company.

4.3 Furnishing of Information; Public Information. Commencing on the Effective Date, and until the earliest of the time that (a) no Purchaser owns Securities or (b) the Investor Warrants have expired, the Company covenants to have obtained and will thereafter maintain the registration of the Common Stock under Section 12(b) or 12(g) of the Exchange Act and to timely file (or obtain extensions in respect thereof and file within the applicable grace period) all reports required to be filed by the Company after the date hereof pursuant to the Exchange Act even if the Company is not then subject to the reporting requirements of the Exchange Act.

4.4 Integration. The Company shall not sell, offer for sale or solicit offers to buy or otherwise negotiate in respect of any security (as defined in Section 2 of the Securities Act) that would be integrated with the offer or sale of the Securities in a manner that would require the registration under the Securities Act of the sale of the Securities or that would be integrated with the offer or sale of the Securities for purposes of the rules and regulations of any Trading Market such that it would require shareholder approval prior to the closing of such other transaction unless shareholder approval is obtained before the closing of such subsequent transaction.

4.5 Exercise Procedures. The form of Notice of Exercise included in the Investor Warrants sets forth the totality of the procedures required of the Purchasers in order to exercise the Investor Warrants. No additional legal opinion, other information or instructions shall be required of the Purchasers to exercise their Investor Warrants. The Company shall honor exercises of the Investor Warrants and shall deliver Investor Warrant Shares in accordance with the terms, conditions and time periods set forth in the Transaction Documents.

4.6 Securities Laws Disclosure; Publicity. The Company shall, by 5:30 p.m. (New York City time) on the fourth Trading Day immediately following the date hereof, file a Current Report on Form 8-K and press release disclosing the material terms of the transactions contemplated hereby, including the Transaction Documents as exhibits thereto. From and after the issuance of such press release, the Company represents to the Purchasers that it shall have publicly disclosed all material, non-public information delivered to any of the Purchasers by the Company or any of its Subsidiaries, or any of their respective officers, directors, employees or agents in connection with the transactions contemplated by the Transaction Documents. The Company and each Purchaser shall consult with each other in issuing any other press releases with respect to the transactions contemplated hereby, and neither the Company nor any Purchaser shall issue any such press release nor otherwise make any such public statement without the prior consent of the Company, with respect to any press release of any Purchaser, or without the prior consent of each Purchaser, with respect to any press release of the Company, which consent shall not unreasonably be withheld or delayed, except if such disclosure is required by law, in which case the disclosing party shall promptly provide the other party with prior notice of such public statement or communication. Notwithstanding the foregoing, the Company shall not publicly disclose the name of any Purchaser, or include the name of any Purchaser in any filing with the Commission or any regulatory agency or Trading Market, without the prior written consent of such Purchaser, except: (a) as required by federal securities law in connection with (i) any registration statement contemplated by the Registration Rights Agreement and (ii) the filing of final Transaction Documents (including conformed signature pages thereto) with the Commission and (b) to the extent such disclosure is required by law or Trading Market regulations, in which case the Company shall provide the Purchasers with prior notice of such disclosure permitted under this clause (b).

4.7 Non-Public Information. Except with respect to the material terms and conditions of the transactions contemplated by the Transaction Documents, the Company covenants and agrees that neither it, nor any other Person acting on its behalf, will provide any Purchaser or its agents or counsel with any information that the Company believes constitutes material non-public information, unless prior thereto such Purchaser shall have executed a written agreement with the Company regarding the confidentiality and use of such information or is an Affiliate of the Company. The Company understands and confirms that each Purchaser shall be relying on the foregoing covenant in effecting transactions in securities of the Company.

4.8 Use of Proceeds. The Company shall use the net proceeds from the sale of the Securities hereunder for general corporate purposes including, but not limited to, growth initiatives and capital expenditures, and shall not use such proceeds: (a) for the satisfaction of any portion of the Company's debt (other than payment of trade payables in the ordinary course of the Company's business and prior practices), (b) for the redemption of any Common Stock or Common Stock Equivalents or (c) the settlement of any outstanding litigation.

4.9 Indemnification of Purchasers. Subject to the provisions of this Section 4.9, the Company will indemnify and hold each Purchaser and its directors, officers, shareholders, members, partners, employees and agents (and any other Persons with a functionally equivalent role of a Person holding such titles notwithstanding a lack of such title or any other title), each Person who controls such Purchaser (within the meaning of Section 15 of the Securities Act and Section 20 of the Exchange Act), and the directors, officers, shareholders, agents, members, partners or employees (and any other Persons with a functionally equivalent role of a Person holding such titles notwithstanding a lack of such title or any other title) of such controlling persons (each, a "Purchaser Party") harmless from any and all losses, liabilities, obligations, claims, contingencies, damages, costs and expenses, including all judgments, amounts paid in settlements, court costs and reasonable attorneys' fees and costs of investigation that any such Purchaser Party may suffer or incur as a result of or relating to (a) any breach of any of the representations, warranties, covenants or agreements made by the Company in this Agreement or in the other Transaction Documents or (b) any action instituted against Purchaser Parties in any capacity, or any of them or their respective Affiliates, by any stockholder of the Company who is not an Affiliate of such Purchaser Party, with respect to any of the transactions contemplated by the Transaction Documents (unless such action is based upon a breach of such Purchaser Party's representations, warranties or covenants under the Transaction Documents or any agreements or understandings such Purchaser Party may have with any such stockholder or any violations by such Purchaser Party of state or federal securities laws or any conduct by such Purchaser Party which constitutes fraud, gross negligence, willful misconduct or malfeasance). If any action shall be brought against any Purchaser Party in respect of which indemnity may be sought pursuant to this Agreement, such Purchaser Party shall promptly notify the Company in writing, and the Company shall have the right to assume the defense thereof with counsel of its own choosing reasonably acceptable to the Purchaser Party. Any Purchaser Party shall have the right to employ separate counsel in any such action and participate in the defense thereof, but the fees and expenses of such counsel shall be at the expense of such Purchaser Party except to the extent that (i) the employment thereof has been specifically authorized by the Company in writing, (ii) the Company has failed after a reasonable period of time to assume such defense and to employ counsel or (iii) in such action there is, in the reasonable opinion of counsel, a material conflict on any material issue between the position of the Company and the position of such Purchaser Party, in which case the Company shall be responsible for the reasonable fees and expenses of no more than one such separate counsel. The Company will not be liable to any Purchaser Party under this Agreement (y) for any settlement by a Purchaser Party effected without the Company's prior written consent, which shall not be unreasonably withheld or delayed; or (z) to the extent, but only to the extent that a loss, claim, damage or liability is attributable to any Purchaser Party's breach of its representations, warranties or covenants under the Transaction Documents or any agreements or understandings such Purchaser Party may have with any such stockholder or any violations by such Purchaser Party of state or federal securities laws or any conduct by such Purchaser Party which constitutes fraud, gross negligence, willful misconduct or malfeasance. The indemnification required by this Section 4.9 shall be made by periodic payments of the amount thereof during the course of the investigation or defense, as and when bills are received or are incurred. The indemnity agreements contained herein shall be in addition to any cause of action or similar right of any Purchaser Party against the Company or others and any liabilities the Company may be subject to pursuant to law.

#### 4.10 Reservation and Listing of Securities.

(a) The Company shall maintain a reserve from its duly authorized shares of Common Stock for issuance pursuant to the Transaction Documents in such amount as may then be required to fulfill its obligations in full under the Transaction Documents (the "Required Minimum").

(b) If, on any date, the number of authorized but unissued (and otherwise unreserved) shares of Common Stock is less than the Required Minimum on such date, then the Board of Directors shall use commercially reasonable efforts to amend the Company's certificate of incorporation to increase the number of authorized but unissued shares of Common Stock to at least the Required Minimum at such time, as soon as possible and in any event not later than the 60<sup>th</sup> day after such date.

(c) The Company shall take all steps necessary to cause the Offering Shares to be approved for listing and actually listed on the Company's principal Trading Market, if any.

4.11 Equal Treatment of Purchasers. No consideration (including any modification of any Transaction Document) shall be offered or paid to any Person to amend or consent to a waiver or modification of any provision of any of this Agreement unless the same consideration is also offered to all of the parties to this Agreement. For clarification purposes, this provision constitutes a separate right granted to each Purchaser by the Company and negotiated separately by each Purchaser, and is intended for the Company to treat the Purchasers as a class and shall not in any way be construed as the Purchasers acting in concert or as a group with respect to the purchase, disposition or voting of Securities or otherwise.

4.12 Certain Transactions and Confidentiality. Each Purchaser, severally and not jointly with the other Purchasers, covenants that neither it, nor any Affiliate acting on its behalf or pursuant to any understanding with it will execute any purchases or sales, including Short Sales, of any of the Company's securities during the period commencing with the execution of this Agreement and ending at such time that the transactions contemplated by this Agreement are first publicly announced pursuant to the initial press release as described in Section 4.6. Each Purchaser, severally and not jointly with the other Purchasers, covenants that until such time as the transactions contemplated by this Agreement are publicly disclosed by the Company pursuant to the initial press release as described in Section 4.6, such Purchaser will maintain the confidentiality of the existence and terms of this transaction and the information included in the Transaction Documents and the Disclosure Schedules. Notwithstanding the foregoing, and notwithstanding anything contained in this Agreement to the contrary, the Company expressly acknowledges and agrees that (i) no Purchaser makes any representation, warranty or covenant hereby that it will not engage in effecting transactions in any securities of the Company after the time that the transactions contemplated by this Agreement are first publicly announced pursuant to the initial press release as described in Section 4.6, (ii) no Purchaser shall be restricted or prohibited from effecting any transactions in any securities of the Company in accordance with applicable securities laws from and after the time that the transactions contemplated by this Agreement are first publicly announced pursuant to the initial press release as described in Section 4.6 and (iii) no Purchaser shall have any duty of confidentiality to the Company or its Subsidiaries after the issuance of the initial press release as described in Section 4.6. Notwithstanding the foregoing, in the case of a Purchaser that is a multi-managed investment vehicle whereby separate portfolio managers manage separate portions of such Purchaser's assets and the portfolio managers have no direct knowledge of the investment decisions made by the portfolio managers managing other portions of such Purchaser's assets, the covenant set forth above shall only apply with respect to the portion of assets managed by the portfolio manager that made the investment decision to purchase the Securities covered by this Agreement.

4.13 Form D: Blue Sky Filings. The Company agrees to timely file a Form D with respect to the Securities as required under Regulation D. The Company shall take such action as the Company shall reasonably determine is necessary in order to obtain an exemption for, or to qualify the Securities for, sale to the Purchasers at each Closing under applicable securities or "Blue Sky" laws of the states of the United States, and shall provide evidence of such actions promptly upon request of any Purchaser.

**ARTICLE V.  
MISCELLANEOUS**

5.1 Termination. This Agreement may be terminated by any Purchaser, as to such Purchaser's obligations hereunder only and without any effect whatsoever on the obligations between the Company and the other Purchasers, by written notice to the other parties, if the Initial Closing has not been consummated on or before September 30, 2019; provided, however, that such date may be extended, without notice, to October 31, 2019 with the consent of the Company provided, further, however, that such termination will not affect the right of any party to sue for any breach by any other party (or parties).

5.2 Fees and Expenses. Except as expressly set forth in the Transaction Documents to the contrary, each party shall pay the fees and expenses of its advisers, counsel, accountants and other experts, if any, and all other expenses incurred by such party incident to the negotiation, preparation, execution, delivery and performance of this Agreement. The Company shall pay all Transfer Agent fees, stamp taxes and other taxes and duties levied in connection with the delivery of any Securities to the Purchasers.

5.3 Entire Agreement. The Transaction Documents, together with the exhibits and schedules thereto, contain the entire understanding of the parties with respect to the subject matter hereof and thereof and supersede all prior agreements and understandings, oral or written, with respect to such matters, which the parties acknowledge have been merged into such documents, exhibits and schedules.

5.4 Notices. Any and all notices or other communications or deliveries required or permitted to be provided hereunder shall be in writing and shall be deemed given and effective on the earliest of: (a) the date of transmission, if such notice or communication is delivered via facsimile at the facsimile number set forth on the signature pages attached hereto at or prior to 5:30 p.m. (New York City time) on a Trading Day, (b) the next Trading Day after the date of transmission, if such notice or communication is delivered via facsimile at the facsimile number set forth on the signature pages attached hereto on a day that is not a Trading Day or later than 5:30 p.m. (New York City time) on any Trading Day, (c) the second (2<sup>nd</sup>) Trading Day following the date of mailing, if sent by U.S. nationally recognized overnight courier service or (d) upon actual receipt by the party to whom such notice is required to be given. The address for such notices and communications shall be as set forth on the signature pages attached hereto.

5.5 Amendments; Waivers. No provision of this Agreement may be waived, modified, supplemented or amended except in a written instrument signed, in the case of an amendment, by the Company and the Purchasers holding at least 67% in interest of the Securities then outstanding, or in the case of a waiver, by the party against whom enforcement of any such waived provision is sought. No waiver of any default with respect to any provision, condition or requirement of this Agreement shall be deemed to be a continuing waiver in the future or a waiver of any subsequent default or a waiver of any other provision, condition or requirement hereof, nor shall any delay or omission of any party to exercise any right hereunder in any manner impair the exercise of any such right.

5.6 Headings. The headings herein are for convenience only, do not constitute a part of this Agreement and shall not be deemed to limit or affect any of the provisions hereof.

5.7 Successors and Assigns. This Agreement shall be binding upon and inure to the benefit of the parties and their successors and permitted assigns. The Company may not assign this Agreement or any rights or obligations hereunder without the prior written consent of each Purchaser (other than by merger). Any Purchaser may assign any or all of its rights under this Agreement to any Person to whom such Purchaser assigns or transfers any Securities, provided that such transferee agrees in writing to be bound, with respect to the transferred Securities, by the provisions of the Transaction Documents that apply to the "Purchasers."

5.8 No Third-Party Beneficiaries. This Agreement is intended for the benefit of the parties hereto and their respective successors and permitted assigns and is not for the benefit of, nor may any provision hereof be enforced by, any other Person, except as otherwise set forth in Section 4.9.

5.9 Governing Law. The Transaction Documents will be governed by and construed under the laws of the State of New York as applied to agreements among New York residents entered into and to be performed entirely within New York. The parties hereto (1) agree that any legal suit, action or proceeding arising out of or relating to this Agreement will be instituted exclusively in New York State Supreme Court, County of New York, or in the United States District Court for the Southern District of New York, (2) waive any objection which the parties may have now or hereafter to the venue of any such suit, action or proceeding, and (3) irrevocably consent to the jurisdiction of the New York State Supreme Court, County of New York, and the United States District Court for the Southern District of New York in any such suit, action or proceeding. Each of the parties hereto further agrees to accept and acknowledge service of any and all process which may be served in any such suit, action or proceeding in the New York State Supreme Court, County of New York, or in the United States District Court for the Southern District of New York and agrees that service of process upon it mailed by certified mail to its address will be deemed in every respect effective service of process upon it, in any such suit, action or proceeding. If either party shall commence an action or proceeding to enforce any provisions of the Transaction Documents, then, in addition to the obligations of the Company under Section 4.9, the prevailing party in such action, suit or proceeding shall be reimbursed by the other party for its reasonable attorneys' fees and other costs and expenses incurred with the investigation, preparation and prosecution of such action or proceeding. THE PARTIES HERETO AGREE TO WAIVE THEIR RESPECTIVE RIGHTS TO A JURY TRIAL OF ANY CLAIM OR CAUSE OF ACTION BASED UPON OR ARISING OUT OF THIS AGREEMENT OR ANY DOCUMENT OR AGREEMENT CONTEMPLATED HEREBY.

5.10 Survival. The representations and warranties contained herein shall survive the Closing and the delivery of the Securities.

5.11 Execution. This Agreement may be executed in two or more counterparts, all of which when taken together shall be considered one and the same agreement and shall become effective when counterparts have been signed by each party and delivered to each other party, it being understood that the parties need not sign the same counterpart. In the event that any signature is delivered by facsimile transmission or by e-mail delivery of a “.pdf” format data file, such signature shall create a valid and binding obligation of the party executing (or on whose behalf such signature is executed) with the same force and effect as if such facsimile or “.pdf” signature page were an original thereof.

5.12 Severability. If any term, provision, covenant or restriction of this Agreement is held by a court of competent jurisdiction to be invalid, illegal, void or unenforceable, the remainder of the terms, provisions, covenants and restrictions set forth herein shall remain in full force and effect and shall in no way be affected, impaired or invalidated, and the parties hereto shall use their commercially reasonable efforts to find and employ an alternative means to achieve the same or substantially the same result as that contemplated by such term, provision, covenant or restriction. It is hereby stipulated and declared to be the intention of the parties that they would have executed the remaining terms, provisions, covenants and restrictions without including any of such that may be hereafter declared invalid, illegal, void or unenforceable.

5.13 Rescission and Withdrawal Right. Notwithstanding anything to the contrary contained in (and without limiting any similar provisions of) any of the other Transaction Documents, whenever any Purchaser exercises a right, election, demand or option under a Transaction Document and the Company does not timely perform its related obligations within the periods therein provided, then such Purchaser may rescind or withdraw, in its sole discretion from time to time upon written notice to the Company, any relevant notice, demand or election in whole or in part without prejudice to its future actions and rights; provided, however, that in the case of a rescission of an exercise of an Investor Warrant, the applicable Purchaser shall be required to return any shares of Common Stock subject to any such rescinded exercise notice concurrently with the return to such Purchaser of the aggregate exercise price paid to the Company for such shares and the restoration of such Purchaser's right to acquire such shares pursuant to such Purchaser's Investor Warrant (including, issuance of a replacement warrant certificate evidencing such restored right).

5.14 Replacement of Securities. If any certificate or instrument evidencing any Securities is mutilated, lost, stolen or destroyed, the Company shall issue or cause to be issued in exchange and substitution for and upon cancellation thereof (in the case of mutilation), or in lieu of and substitution therefor, a new certificate or instrument, but only upon receipt of evidence reasonably satisfactory to the Company of such loss, theft or destruction. The applicant for a new certificate or instrument under such circumstances shall also pay any reasonable third-party costs (including customary indemnity) associated with the issuance of such replacement Securities.

5.15 Remedies. In addition to being entitled to exercise all rights provided herein or granted by law, including recovery of damages, each of the Purchasers and the Company will be entitled to specific performance under the Transaction Documents. The parties agree that monetary damages may not be adequate compensation for any loss incurred by reason of any breach of obligations contained in the Transaction Documents and hereby agree to waive and not to assert in any action for specific performance of any such obligation the defense that a remedy at law would be adequate.

5.16 Payment Set Aside. To the extent that the Company makes a payment or payments to any Purchaser pursuant to any Transaction Document or a Purchaser enforces or exercises its rights thereunder, and such payment or payments or the proceeds of such enforcement or exercise or any part thereof are subsequently invalidated, declared to be fraudulent or preferential, set aside, recovered from, disgorged by or are required to be refunded, repaid or otherwise restored to the Company, a trustee, receiver or any other Person under any law (including, without limitation, any bankruptcy law, state or federal law, common law or equitable cause of action), then to the extent of any such restoration the obligation or part thereof originally intended to be satisfied shall be revived and continued in full force and effect as if such payment had not been made or such enforcement or setoff had not occurred.

5.17 Independent Nature of Purchasers' Obligations and Rights. The obligations of each Purchaser under any Transaction Document are several and not joint with the obligations of any other Purchaser, and no Purchaser shall be responsible in any way for the performance or non-performance of the obligations of any other Purchaser under any Transaction Document. Nothing contained herein or in any other Transaction Document, and no action taken by any Purchaser pursuant hereto or thereto, shall be deemed to constitute the Purchasers as a partnership, an association, a joint venture or any other kind of entity, or create a presumption that the Purchasers are in any way acting in concert or as a group with respect to such obligations or the transactions contemplated by the Transaction Documents. Each Purchaser shall be entitled to independently protect and enforce its rights, including, without limitation, the rights arising out of this Agreement or out of the other Transaction Documents, and it shall not be necessary for any other Purchaser to be joined as an additional party in any proceeding for such purpose. Each Purchaser has been represented by its own separate legal counsel in its review and negotiation of the Transaction Documents. The Company has elected to provide all Purchasers with the same terms and Transaction Documents for the convenience of the Company and not because it was required or requested to do so by any of the Purchasers. It is expressly understood and agreed that each provision contained in this Agreement and in each other Transaction Document is between the Company and a Purchaser, solely, and not between the Company and the Purchasers collectively and not between and among the Purchasers.

5.18 Saturdays, Sundays, Holidays, etc. If the last or appointed day for the taking of any action or the expiration of any right required or granted herein shall not be a Business Day, then such action may be taken or such right may be exercised on the next succeeding Business Day.

5.19 Construction. The parties agree that each of them and/or their respective counsel have reviewed and had an opportunity to revise the Transaction Documents and, therefore, the normal rule of construction to the effect that any ambiguities are to be resolved against the drafting party shall not be employed in the interpretation of the Transaction Documents or any amendments thereto. In addition, each and every reference to share prices and shares of Common Stock in any Transaction Document shall be subject to adjustment for reverse and forward stock splits, stock dividends, stock combinations and other similar transactions of the Common Stock that occur after the date of this Agreement.

**5.20 WAIVER OF JURY TRIAL. IN ANY ACTION, SUIT, OR PROCEEDING IN ANY JURISDICTION BROUGHT BY ANY PARTY AGAINST ANY OTHER PARTY, THE PARTIES EACH KNOWINGLY AND INTENTIONALLY, TO THE GREATEST EXTENT PERMITTED BY APPLICABLE LAW, HEREBY ABSOLUTELY, UNCONDITIONALLY, IRREVOCABLY AND EXPRESSLY WAIVES FOREVER TRIAL BY JURY.**

5.21 Liquidated Damages. The Company's obligations to pay any partial liquidated damages or other amounts owing under the Transaction Documents is a continuing obligation of the Company and shall not terminate until all unpaid partial liquidated damages and other amounts have been paid notwithstanding the fact that the instrument or security pursuant to which such partial liquidated damages or other amounts are due and payable shall have been canceled.

*(Signature Pages Follow)*

IN WITNESS WHEREOF, the parties hereto have caused this SHARE PURCHASE AGREEMENT to be duly executed by their respective authorized signatories as of the date first indicated above.

**RELMADA THERAPEUTICS, INC.**

Address for Notice:

880 Third Avenue  
12<sup>th</sup> Floor  
New York, NY 10022

By: \_\_\_\_\_

Name: Sergio Traversa  
Title: CEO

With a copy to (which shall not constitute notice):

Thomas Slusarczyk, Esq.  
The Matt Law Firm, PLLC  
1701 Genesee Street  
Utica, NY 135011

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK  
SIGNATURE PAGE FOR PURCHASER FOLLOWS]

PURCHASER SIGNATURE PAGES TO RELMADA THERAPEUTICS, INC.  
SHARE PURCHASE AGREEMENT

The Purchasers set forth on Appendix A to this Agreement have executed a Subscription Agreement with the Company which provides, among other things, that by executing the Subscription Agreement each Purchaser is deemed to have executed this SHARE PURCHASE AGREEMENT in all respects and is bound to purchase the Shares set forth in such Subscription Agreement and Appendix A to this Agreement.

**APPENDIX A**

SCHEDULE OF PURCHASERS

Initial Closing

Name of Purchaser	Common Stock	Subscription Amount
		<b>TOTAL: \$</b>

Subsequent Closing

Name of Subsequent Closing Purchaser	Common Stock	Subscription Amount
		<b>TOTAL: \$</b>

## REGISTRATION RIGHTS AGREEMENT

This Registration Rights Agreement (this "Agreement") is made and entered into as of September \_\_, 2019 among Relmada Therapeutics, Inc., a Nevada corporation (the "Company"), and each of the several purchasers signatory hereto (each such purchaser, a "Purchaser" and, collectively, the "Purchasers").

**WHEREAS**, in connection with that certain Subscription Agreement of even date herewith by and between the Company and the Purchasers (the "Subscription Agreement") and Share Purchase Agreement of even date herewith by and between the Company and the Purchasers (the "Purchase Agreement"), the Purchasers purchased from the Company, certain shares of common stock, par value \$0.001 per share, of the Company ("Common Stock"); and

**WHEREAS**, to induce the Purchasers to purchase the Common Stock, the Company has agreed to grant the Purchasers certain rights with respect to registration of Registrable Securities (as defined below) under the Securities Act pursuant to the terms of this Agreement.

**NOW, THEREFORE**, the Company and each Purchaser hereby agree as follows:

1. Definitions.

**Capitalized terms used and not otherwise defined herein that are defined in the Purchase Agreement shall have the meanings given such terms in the Purchase Agreement.** As used in this Agreement, the following terms shall have the following meanings:

"Advice" shall have the meaning set forth in Section 6(d).

"Cut-Off Date" shall have the meaning set forth in Section 2(a).

"Effectiveness Date" means, with respect to the Initial Registration Statement required to be filed hereunder, the 120<sup>th</sup> calendar day following the Filing Date and with respect to any additional Registration Statements which may be required pursuant to Section 2(c) or Section 3(c), the 90<sup>th</sup> calendar day following the date on which an additional Registration Statement is required to be filed hereunder; provided, however, that in the event the Company is notified by the Commission that one or more of the above Registration Statements will not be reviewed or is no longer subject to further review and comments, the Effectiveness Date as to such Registration Statement shall be the 10<sup>th</sup> calendar day following the date on which the Company is so notified if such date precedes the dates otherwise required above (unless the Company is required to update its financial statements prior to requesting acceleration of such Registration Statement, which will require the Company to file an amendment to such Registration Statement, in which case the Company shall file any necessary amendment to such Registration Statement and request effectiveness thereof as soon as reasonably practicable and in no event later than the 60<sup>th</sup> calendar day following the Filing Date); provided, further, if such Effectiveness Date falls on a day that is not a Trading Day, then the Effectiveness Date shall be the next succeeding Trading Day.

"Effectiveness Period" shall have the meaning set forth in Section 2(a).

"Event" shall have the meaning set forth in Section 2(d).

"Event Date" shall have the meaning set forth in Section 2(d).

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“Filing Date” means, with respect to the Initial Registration Statement required hereunder, the 45<sup>th</sup> calendar day following the final Closing Date and, with respect to any additional Registration Statements which may be required pursuant to Section 2(c) or Section 3(c), the earliest practical date on which the Company is permitted by SEC Guidance to file such additional Registration Statement related to the Registrable Securities.

“Holder” or “Holders” means the holder or holders, as the case may be, from time to time of Registrable Securities.

“Indemnified Party” shall have the meaning set forth in Section 5(c).

“Indemnifying Party” shall have the meaning set forth in Section 5(c).

“Initial Registration Statement” means the initial Registration Statement filed pursuant to this Agreement.

“Losses” shall have the meaning set forth in Section 5(a).

“Plan of Distribution” shall have the meaning set forth in Section 2(a).

“Prospectus” means the prospectus included in a Registration Statement (including, without limitation, a prospectus that includes any information previously omitted from a prospectus filed as part of an effective registration statement in reliance upon Rule 430A promulgated by the Commission pursuant to the Securities Act), as amended or supplemented by any prospectus supplement, with respect to the terms of the offering of any portion of the Registrable Securities covered by a Registration Statement, and all other amendments and supplements to the Prospectus, including post-effective amendments, and all material incorporated by reference or deemed to be incorporated by reference in such Prospectus.

“Purchase Agreement Shares” means the shares of Common Stock issued to the Purchasers pursuant to the Purchase Agreement (and shall not include the Investor Warrants or the Investor Warrant Shares).

“Registrable Securities” means, as of any date of determination, (a) all of the Purchase Agreement Shares, (b) all Investor Warrant Shares then issuable upon exercise of the Investor Warrants (assuming on such date the Investor Warrants are exercised in full without regard to any exercise limitations therein), (c) any additional shares of Common Stock issuable in connection with any anti-dilution provisions in the Investor Warrants (without giving effect to any limitations on exercise set forth in the Investor Warrants), and (d) any securities issued or then issuable upon any stock split, dividend or other distribution, recapitalization or similar event with respect to the foregoing; provided, however, that any such Registrable Securities shall cease to be Registrable Securities (and the Company shall not be required to maintain the effectiveness of any, or file another, Registration Statement hereunder with respect thereto) for so long as (a) a Registration Statement with respect to the sale of such Registrable Securities is declared effective by the Commission under the Securities Act and such Registrable Securities have been disposed of by the Holder in accordance with such effective Registration Statement, (b) such Registrable Securities have been previously sold in accordance with Rule 144, or (c) such securities become eligible for resale without volume or manner-of-sale restrictions and without the requirement for the Company to be in compliance with the current public information requirement under Rule 144, as determined by counsel to the Company pursuant to a written opinion letter to such effect, addressed, delivered and acceptable to the Transfer Agent and the affected Holders (assuming that such securities, any securities upon the exercise, conversion or exchange of or as a dividend upon which such securities were issued, or any securities issuable upon the exercise, conversion or exchange of, or as a dividend upon such securities, were at no time held by any Affiliate of the Company), as reasonably determined by the Company, upon the advice of counsel to the Company. For the avoidance of doubt, any such Registrable Securities shall cease to be Registrable Securities after the Cut-Off Date.

“Registration Statement” means any registration statement required to be filed hereunder pursuant to Section 2(a) and any additional registration statements contemplated by Section 2(c) or Section 3(c), including (in each case) the Prospectus, amendments and supplements to any such registration statement or Prospectus, including pre- and post-effective amendments, all exhibits thereto, and all material incorporated by reference or deemed to be incorporated by reference in any such registration statement.

“Rule 415” means Rule 415 promulgated by the Commission pursuant to the Securities Act, as such Rule may be amended or interpreted from time to time, or any similar rule or regulation hereafter adopted by the Commission having substantially the same purpose and effect as such Rule.

“Rule 424” means Rule 424 promulgated by the Commission pursuant to the Securities Act, as such Rule may be amended or interpreted from time to time, or any similar rule or regulation hereafter adopted by the Commission having substantially the same purpose and effect as such Rule.

“Selling Stockholder Questionnaire” shall have the meaning set forth in Section 3(a).

“SEC Guidance” means (i) any publicly-available written or oral guidance of the Commission staff, or any comments, requirements or requests of the Commission staff and (ii) the Securities Act.

## 2. Shelf Registration.

(a) On or prior to each Filing Date, the Company shall prepare and file with the Commission a Registration Statement covering the resale of all of the Registrable Securities that are not then registered on an effective Registration Statement for an offering to be made on a continuous basis pursuant to Rule 415. Each Registration Statement filed hereunder shall be on Form S-3 (except if the Company is not then eligible to register for resale the Registrable Securities on Form S-3, in which case such registration shall be on another appropriate form in accordance herewith, subject to the provisions of Section 2(e)) and shall contain (unless otherwise directed by at least 85% in interest of the Holders) substantially the “Plan of Distribution” attached hereto as Annex A. Subject to the terms of this Agreement, the Company shall use its reasonable best efforts to cause a Registration Statement filed under this Agreement (including, without limitation, under Section 3(c)) to be declared effective under the Securities Act as promptly as possible after the filing thereof, but in any event no later than the applicable Effectiveness Date, and shall use its reasonable best efforts to keep such Registration Statement continuously effective under the Securities Act until the first to occur of: (A) the date that is one (1) year from the date the Registration Statement is declared effective by the Commission (the “Cut-Off Date”) and (B) the date that all Registrable Securities covered by such Registration Statement (i) have been sold, thereunder or pursuant to Rule 144, or (ii) may be sold without volume or manner-of-sale restrictions pursuant to Rule 144 and without the requirement for the Company to be in compliance with the current public information requirement under Rule 144, as determined by the counsel to the Company pursuant to a written opinion letter which shall be obtained at the company’s expense, to such effect, addressed, delivered and acceptable to the Transfer Agent and the affected Holders (assuming that such securities, any securities upon the exercise, conversion or exchange of or as a dividend upon which such securities were issued, or any securities issuable upon the exercise, conversion or exchange of, or as a dividend upon such securities, were at no time held by any Affiliate of the Company) (the “Effectiveness Period”). The Company shall telephonically request effectiveness of a Registration Statement as of 5:00 p.m. Eastern Time on a Trading Day. The Company shall immediately notify the Holders via facsimile or by e-mail of the effectiveness of a Registration Statement on the same Trading Day that the Company telephonically confirms effectiveness with the Commission, which shall be the date requested for effectiveness of such Registration Statement. The Company shall, by 9:30 a.m. Eastern Time on the Trading Day after the effective date of such Registration Statement, file a final Prospectus with the Commission as required by Rule 424. Failure to so notify the Holder within one (1) Trading Day of such notification of effectiveness or failure to file a final Prospectus as foreshad shall be deemed an Event under Section 2(d).

(b) Notwithstanding the registration obligations set forth in Section 2(a), if the Commission informs the Company that all of the Registrable Securities cannot, as a result of the application of Rule 415, be registered for resale as a secondary offering on a single registration statement, the Company agrees to promptly inform each of the Holders thereof and use its commercially reasonable efforts to file amendments to the Initial Registration Statement as required by the Commission, covering the maximum number of Registrable Securities permitted to be registered by the Commission, on Form S-3 or such other form available to register for resale the Registrable Securities as a secondary offering, subject to the provisions of Section 2(e); provided, however, that prior to filing such amendment, the Company shall be obligated to use diligent efforts to advocate with the Commission for the registration of all of the Registrable Securities in accordance with the SEC Guidance, including without limitation, Compliance and Disclosure Interpretation 612.09.

(c) Notwithstanding any other provision of this Agreement and subject to the payment of liquidated damages pursuant to Section 2(d), if the Commission or any SEC Guidance sets forth a limitation on the number of Registrable Securities permitted to be registered on a particular Registration Statement as a secondary offering (and notwithstanding that the Company used diligent efforts to advocate with the Commission for the registration of all or a greater portion of Registrable Securities), unless otherwise directed in writing by a Holder as to its Registrable Securities, the number of Registrable Securities to be registered on such Registration Statement will be reduced as follows:

- (i) First, the Company shall reduce or eliminate any securities to be included by any Person other than a Holder;
- (ii) Second, the Company shall reduce Registrable Securities represented by Investor Warrant Shares (applied to the Holders on a pro rata basis based on the total number of unregistered Investor Warrant Shares held by such Holders, collectively); and
- (iii) Third, the Company shall reduce Registrable Securities represented by the Purchase Agreement Shares (applied, in the case that some Purchase Agreement Shares may be registered, to the Holders on a pro rata basis based on the total number of unregistered Purchase Agreement Shares held by such Holders).

In the event of a cutback hereunder, the Company shall give the Holder at least five (5) Trading Days prior written notice along with the calculations as to such Holder's allotment. In the event the Company amends the Initial Registration Statement in accordance with the foregoing, the Company will use its reasonable best efforts to file with the Commission, as promptly as allowed by the Commission or SEC Guidance provided to the Company or to registrants of securities in general, one or more registration statements on Form S-3 or such other form available to register for resale those Registrable Securities that were not registered for resale on the Initial Registration Statement, as amended.

(d) If: (i) the Initial Registration Statement is not filed on or prior to its Filing Date (if the Company files the Initial Registration Statement without affording the Holders the opportunity to review and comment on the same as required by Section 3(a) herein, the Company shall be deemed to have not satisfied this clause (i)), or (ii) the Company fails to file with the Commission a request for acceleration of a Registration Statement in accordance with Rule 461 promulgated by the Commission pursuant to the Securities Act, within five Trading Days of the date that the Company is notified (orally or in writing, whichever is earlier) by the Commission that such Registration Statement will not be "reviewed" or will not be subject to further review, or (iii) prior to the effective date of a Registration Statement, the Company fails to file a pre-effective amendment and otherwise respond in writing to comments made by the Commission in respect of such Registration Statement within thirty (30) calendar days after the receipt of comments by or notice from the Commission that such amendment is required in order for such Registration Statement to be declared effective, or (iv) a Registration Statement registering for resale all of the Registrable Securities is not declared effective by the Commission by the Effectiveness Date of the Initial Registration Statement, or (v) after the effective date of a Registration Statement, such Registration Statement ceases for any reason to remain continuously effective as to all Registrable Securities included in such Registration Statement, or the Holders are otherwise not permitted to utilize the Prospectus therein to resell such Registrable Securities, for more than ten (10) consecutive calendar days or more than an aggregate of fifteen (15) calendar days (which need not be consecutive calendar days) during any 12-month period (any such failure or breach being referred to as an "Event", and for purposes of clauses (i) and (iv), the date on which such Event occurs, and for purpose of clause (ii) the date on which such five (5) Trading Day period is exceeded, and for purpose of clause (iii) the date which such thirty (30) calendar day period is exceeded, and for purpose of clause (v) the date on which such ten (10) or fifteen (15) calendar day period, as applicable, is exceeded being referred to as an "Event Date"), then, in addition to any other rights the Holders may have hereunder or under applicable law, on each such Event Date and on each thirty (30) calendar day anniversary of each such Event Date (if the applicable Event shall not have been cured by such date) until the applicable Event is cured, the Company shall pay to each Holder an amount in cash, as partial liquidated damages and not as a penalty, equal to 1.0% of the aggregate purchase price paid by such Holder pursuant to the Purchase Agreement; provided, however, that the Company shall not be required to make any payments pursuant to this Section 2(d) if an Event occurred at such time that all Registrable Securities are eligible for resale pursuant to Rule 144 (without volume restrictions or current public information requirements) promulgated by the Commission pursuant to the Securities Act; provided, further, that the Company shall not be required to make any payments pursuant to this Section 2(d) with respect to any Registrable Securities the Company is unable to register due to limits imposed by the Commission's interpretation of Rule 415 under the Securities Act. The parties agree that the maximum aggregate liquidated damages payable to a Holder under this Agreement shall be 6.0% of the aggregate Subscription Amount paid by such Holder pursuant to the Purchase Agreement. If the Company fails to pay any partial liquidated damages pursuant to this Section in full within seven (7) days after the date payable, the Company will pay interest thereon at a rate of 18% per annum (or such lesser maximum amount that is permitted to be paid by applicable law) to the Holder, accruing daily from the date such partial liquidated damages are due until such amounts, plus all such interest thereon, are paid in full. The partial liquidated damages pursuant to the terms hereof shall apply on a daily pro rata basis for any portion of a thirty (30) calendar day period prior to the cure of an Event.

(e) If Form S-3 is not available for the registration of the resale of Registrable Securities hereunder, the Company shall (i) register the resale of the Registrable Securities on another appropriate form and (ii) undertake to register the Registrable Securities on Form S-3 as soon as such form is available, provided that the Company shall maintain the effectiveness of the Registration Statement then in effect until such time as a Registration Statement on Form S-3 covering the Registrable Securities has been declared effective by the Commission.

### 3. Registration Procedures.

In connection with the Company's registration obligations hereunder, the Company shall:

(a) Not less than five (5) Trading Days prior to the filing of each Registration Statement and not less than one (1) Trading Day prior to the filing of any related Prospectus or any amendment or supplement thereto (including any document that would be incorporated or deemed to be incorporated therein by reference), the Company shall (i) furnish to each Holder copies of all such documents proposed to be filed, which documents (other than those incorporated or deemed to be incorporated by reference) will be subject to the review of such Holders, and (ii) cause its officers and directors, counsel and independent registered public accountants to respond to such inquiries as shall be necessary, in the reasonable opinion of respective counsel to each Holder, to conduct a reasonable investigation within the meaning of the Securities Act. Notwithstanding the above, the Company shall not be obligated to provide the Holders advance copies of any universal shelf registration statement registering securities in addition to those required hereunder, or any Prospectus prepared thereto. The Company shall not file a Registration Statement or any such Prospectus or any amendments or supplements thereto to which the Holders of 67% or more of the Registrable Securities shall reasonably object in good faith, provided that, the Company is notified of such objection in writing no later than five (5) Trading Days after the Holders have been so furnished copies of a Registration Statement or one (1) Trading Day after the Holders have been so furnished copies of any related Prospectus or amendments or supplements thereto. Each Holder agrees to furnish to the Company a completed questionnaire in the form attached to this Agreement as Annex B (a "Selling Stockholder Questionnaire") on a date that is not less than two (2) Trading Days prior to the Filing Date or by the end of the fourth (4<sup>th</sup>) Trading Day following the date on which such Holder receives draft materials in accordance with this Section.

(b) (i) Prepare and file with the Commission such amendments, including post-effective amendments, to a Registration Statement and the Prospectus used in connection therewith as may be necessary to keep a Registration Statement continuously effective as to the applicable Registrable Securities for the Effectiveness Period and prepare and file with the Commission such additional Registration Statements in order to register for resale under the Securities Act all of the Registrable Securities, (ii) cause the related Prospectus to be amended or supplemented by any required Prospectus supplement (subject to the terms of this Agreement), and, as so supplemented or amended, to be filed pursuant to Rule 424, (iii) respond as promptly as reasonably possible to any comments received from the Commission with respect to a Registration Statement or any amendment thereto and provide as promptly as reasonably possible to the Holders true and complete copies of all correspondence from and to the Commission relating to a Registration Statement (provided that, the Company shall excise any information contained therein which would constitute material non-public information regarding the Company or any of its Subsidiaries), and (iv) comply in all material respects with the applicable provisions of the Securities Act and the Exchange Act with respect to the disposition of all Registrable Securities covered by a Registration Statement during the applicable period in accordance (subject to the terms of this Agreement) with the intended methods of disposition by the Holders thereof set forth in such Registration Statement as so amended or in such Prospectus as so supplemented.

(c) If during the Effectiveness Period, the number of Registrable Securities at any time exceeds 100% of the number of shares of Common Stock then registered in a Registration Statement, then the Company shall file as soon as reasonably practicable, but in any case prior to the applicable Filing Date, an additional Registration Statement covering the resale by the Holders of not less than the number of such Registrable Securities.

(d) Notify the Holders of Registrable Securities to be sold (which notice shall, pursuant to clauses (iii) through (vi) hereof, be accompanied by an instruction to suspend the use of the Prospectus until the requisite changes have been made) as promptly as reasonably possible (and, in the case of (i)(A) below, not less than one (1) Trading Day prior to such filing) and (if requested by any such Person) confirm such notice in writing no later than one (1) Trading Day following the day (i)(A) when a Prospectus or any Prospectus supplement or post-effective amendment to a Registration Statement is proposed to be filed, (B) when the Commission notifies the Company whether there will be a "review" of such Registration Statement and whenever the Commission comments in writing on such Registration Statement, and (C) with respect to a Registration Statement or any post-effective amendment, when the same has become effective, (ii) of any request by the Commission or any other federal or state governmental authority for amendments or supplements to a Registration Statement or Prospectus or for additional information, (iii) of the issuance by the Commission or any other federal or state governmental authority of any stop order suspending the effectiveness of a Registration Statement covering any or all of the Registrable Securities or the initiation of any Proceedings for that purpose, (iv) of the receipt by the Company of any notification with respect to the suspension of the qualification or exemption from qualification of any of the Registrable Securities for sale in any jurisdiction, or the initiation or threatening of any Proceeding for such purpose, (v) of the occurrence of any event or passage of time that makes the financial statements included in a Registration Statement ineligible for inclusion therein or any statement made in a Registration Statement or Prospectus or any document incorporated or deemed to be incorporated therein by reference untrue in any material respect or that requires any revisions to a Registration Statement, Prospectus or other documents so that, in the case of a Registration Statement or the Prospectus, as the case may be, it will not contain any untrue statement of a material fact or omit to state any material fact required to be stated therein or necessary to make the statements therein, in light of the circumstances under which they were made, not misleading, and (vi) of the occurrence or existence of any pending corporate development with respect to the Company that the Company believes may be material and that, in the determination of the Company, makes it not in the best interest of the Company to allow continued availability of a Registration Statement or Prospectus, provided, however, in no event shall any such notice contain any information which would constitute material, non-public information regarding the Company or any of its Subsidiaries.

(e) Use its reasonable best efforts to avoid the issuance of, or, if issued, obtain the withdrawal of (i) any order stopping or suspending the effectiveness of a Registration Statement, or (ii) any suspension of the qualification (or exemption from qualification) of any of the Registrable Securities for sale in any jurisdiction, at the earliest practicable moment.

(f) Furnish to each Holder, without charge, at least one conformed copy of each such Registration Statement and each amendment thereto, including financial statements and schedules, all documents incorporated or deemed to be incorporated therein by reference to the extent requested by such Person, and all exhibits to the extent requested by such Person (including those previously furnished or incorporated by reference) promptly after the filing of such documents with the Commission; provided, that any such item which is available on the EDGAR system (or successor thereto) need not be furnished in physical form.

(g) Subject to the terms of this Agreement, the Company hereby consents to the use of such Prospectus and each amendment or supplement thereto by each of the selling Holders in connection with the offering and sale of the Registrable Securities covered by such Prospectus and any amendment or supplement thereto, except after the giving of any notice pursuant to Section 3(d).

(h) The Company shall cooperate with any broker-dealer through which a Holder proposes to resell its Registrable Securities in effecting a filing with the FINRA Corporate Financing Department pursuant to FINRA Rule 5110, as requested by any such Holder, and the Company shall pay the filing fee required by such filing within two (2) Business Days of request therefor.

(i) Prior to any resale of Registrable Securities by a Holder, use its commercially reasonable efforts to register or qualify or cooperate with the selling Holders in connection with the registration or qualification (or exemption from the registration or qualification) of such Registrable Securities for the resale by the Holder under the securities or Blue Sky laws of such jurisdictions within the United States as any Holder reasonably requests in writing, to keep each registration or qualification (or exemption therefrom) effective during the Effectiveness Period and to do any and all other acts or things reasonably necessary to enable the disposition in such jurisdictions of the Registrable Securities covered by each Registration Statement; provided, that, the Company shall not be required to qualify generally to do business in any jurisdiction where it is not then so qualified, subject the Company to any material tax in any such jurisdiction where it is not then so subject or file a general consent to service of process in any such jurisdiction.

(j) If requested by a Holder, cooperate with such Holder to facilitate the timely preparation and delivery of certificates representing Registrable Securities to be delivered to a transferee pursuant to a Registration Statement, which certificates shall be free, to the extent permitted by the Purchase Agreement and applicable law, of all restrictive legends, and to enable such Registrable Securities to be in such denominations and registered in such names as any such Holder may request.

(k) Upon the occurrence of any event contemplated by Section 3(d), as promptly as reasonably possible under the circumstances taking into account the Company's good faith assessment of any adverse consequences to the Company and its stockholders of the premature disclosure of such event, prepare a supplement or amendment, including a post-effective amendment, to a Registration Statement or a supplement to the related Prospectus or any document incorporated or deemed to be incorporated therein by reference, and file any other required document so that, as thereafter delivered, neither a Registration Statement nor such Prospectus will contain an untrue statement of a material fact or omit to state a material fact required to be stated therein or necessary to make the statements therein, in light of the circumstances under which they were made, not misleading. If the Company notifies the Holders in accordance with clauses (iii) through (vi) of Section 3(d) above to suspend the use of any Prospectus until the requisite changes to such Prospectus have been made, then the Holders shall suspend use of such Prospectus. The Company will use its reasonable best efforts to ensure that the use of the Prospectus may be resumed as promptly as is practicable. The Company shall be entitled to exercise its right under this Section 3(k) to suspend the availability of a Registration Statement and Prospectus, subject to the payment of partial liquidated damages otherwise required pursuant to Section 2(d), for a period not to exceed 60 calendar days (which need not be consecutive days) in any 12-month period.

(l) Comply with all applicable rules and regulations of the Commission.

(m) The Company shall use its reasonable best efforts to maintain eligibility for use of Form S-3 (or any successor form thereto) for the registration of the resale of Registrable Securities.

(n) The Company may require each selling Holder to furnish to the Company a certified statement as to the number of shares of Common Stock beneficially owned by such Holder and, if required by the Commission, the natural persons thereof that have voting and dispositive control over the shares. During any periods that the Company is unable to meet its obligations hereunder with respect to the registration of the Registrable Securities solely because any Holder fails to furnish such information within three Trading Days of the Company's request, any liquidated damages that are accruing at such time as to such Holder only shall be tolled and any Event that may otherwise occur solely because of such delay shall be suspended as to such Holder only, until such information is delivered to the Company.

4. Registration Expenses. All fees and expenses incident to the performance of or compliance with, this Agreement by the Company shall be borne by the Company whether or not any Registrable Securities are sold pursuant to a Registration Statement. The fees and expenses referred to in the foregoing sentence shall include, without limitation, (i) all registration and filing fees (including, without limitation, fees and expenses of the Company's counsel and independent registered public accountants) (A) with respect to filings made with the Commission, (B) with respect to filings required to be made with any Trading Market on which the Common Stock is then listed for trading, (C) in compliance with applicable state securities or Blue Sky laws reasonably agreed to by the Company in writing (including, without limitation, fees and disbursements of counsel for the Company in connection with Blue Sky qualifications or exemptions of the Registrable Securities) and (D) if not previously paid by the Company, with respect to any filing that may be required to be made by any broker through which a Holder intends to make sales of Registrable Securities with FINRA pursuant to FINRA Rule 5110, so long as the broker is receiving no more than a customary brokerage commission in connection with such sale, (ii) printing expenses (including, without limitation, expenses of printing certificates for Registrable Securities), (iii) messenger, telephone and delivery expenses, (iv) fees and disbursements of counsel for the Company, (v) Securities Act liability insurance, if the Company so desires such insurance, and (vi) fees and expenses of all other Persons retained by the Company in connection with the consummation of the transactions contemplated by this Agreement. In addition, the Company shall be responsible for all of its internal expenses incurred in connection with the consummation of the transactions contemplated by this Agreement (including, without limitation, all salaries and expenses of its officers and employees performing legal or accounting duties), the expense of any annual audit and the fees and expenses incurred in connection with the listing of the Registrable Securities on any securities exchange as required hereunder. Notwithstanding the foregoing, the Company shall be responsible for the legal fees or other costs of the Holders (including the reasonable counsel fees of the placement agent, as representative of the Holders; provided, however, that any such counsel fees of the placement agent shall not exceed \$10,000 in the aggregate and any related expenses shall not exceed \$10,000 in the aggregate) incurred in connection with the transactions contemplated hereby.

## 5. Indemnification.

(a) Indemnification by the Company. The Company shall, notwithstanding any termination of this Agreement, indemnify and hold harmless each Holder, the officers, directors, members, partners, agents, brokers (including brokers who offer and sell Registrable Securities as principal as a result of a pledge or any failure to perform under a margin call of Common Stock), investment advisors and employees (and any other Persons with a functionally equivalent role of a Person holding such titles, notwithstanding a lack of such title or any other title) of each of them, each Person who controls any such Holder (within the meaning of Section 15 of the Securities Act or Section 20 of the Exchange Act) and the officers, directors, members, stockholders, partners, agents and employees (and any other Persons with a functionally equivalent role of a Person holding such titles, notwithstanding a lack of such title or any other title) of each such controlling Person, to the fullest extent permitted by applicable law, from and against any and all losses, claims, damages, liabilities, costs (including, without limitation, reasonable attorneys' fees) and expenses (collectively, "Losses"), as incurred, arising out of or relating to (1) any untrue or alleged untrue statement of a material fact contained in a Registration Statement, any Prospectus or any form of prospectus or in any amendment or supplement thereto or in any preliminary prospectus, or arising out of or relating to any omission or alleged omission of a material fact required to be stated therein or necessary to make the statements therein (in the case of any Prospectus or supplement thereto, in light of the circumstances under which they were made) not misleading or (2) any violation or alleged violation by the Company of the Securities Act, the Exchange Act or any state securities law, or any rule or regulation thereunder, in connection with the performance of its obligations under this Agreement, except to the extent, but only to the extent, that (i) such untrue statements or omissions are based solely upon information regarding such Holder furnished in writing to the Company by such Holder expressly for use therein, or to the extent that such information relates to such Holder or such Holder's proposed method of distribution of Registrable Securities and was reviewed and expressly approved in writing by such Holder expressly for use in a Registration Statement, such Prospectus or in any amendment or supplement thereto (it being understood that the Holder has approved Annex A hereto for this purpose) or (ii) in the case of an occurrence of an event of the type specified in Section 3(d)(iii)-(vi), the use by such Holder of an outdated, defective or otherwise unavailable Prospectus after the Company has notified such Holder in writing that the Prospectus is outdated, defective or otherwise unavailable for use by such Holder and prior to the receipt by such Holder of the Advice contemplated in Section 6(d), but only if and to the extent that following the receipt of the Advice the misstatement or omission giving rise to such Loss would have been corrected. The Company shall notify the Holders promptly of the institution, threat or assertion of any Proceeding arising from or in connection with the transactions contemplated by this Agreement of which the Company is aware. Such indemnity shall remain in full force and effect regardless of any investigation made by or on behalf of such indemnified person and shall survive the transfer of any Registrable Securities by any of the Holders in accordance with Section 6(h).

(b) Indemnification by Holders. Each Holder shall, severally and not jointly, indemnify and hold harmless the Company, its directors, officers, agents and employees, each Person who controls the Company (within the meaning of Section 15 of the Securities Act and Section 20 of the Exchange Act), and the directors, officers, agents or employees of such controlling Persons (and any other Persons with a functionally equivalent role of a Person holding such titles, notwithstanding a lack of such title or any other title), to the fullest extent permitted by applicable law, from and against all Losses, as incurred, to the extent arising out of or based solely upon: (x) such Holder's failure to comply with any applicable prospectus delivery requirements of the Securities Act or the plan of distribution in any Registration Statement through no fault of the Company or (y) any untrue or alleged untrue statement of a material fact contained in any Registration Statement, any Prospectus, or in any amendment or supplement thereto or in any preliminary prospectus, or arising out of or relating to any omission or alleged omission of a material fact required to be stated therein or necessary to make the statements therein (in the case of any Prospectus or supplement thereto, in light of the circumstances under which they were made) not misleading (i) to the extent, but only to the extent, that such untrue statement or omission is contained in any information so furnished in writing by such Holder to the Company expressly for inclusion in such Registration Statement or such Prospectus or (ii) to the extent, but only to the extent, that such information relates to such Holder's proposed method of distribution of Registrable Securities and was reviewed and expressly approved in writing by such Holder expressly for use in a Registration Statement (it being understood that the Holder has approved Annex A hereto for this purpose), such Prospectus or in any amendment or supplement thereto or (iii) in the case of an occurrence of an event of the type specified in Section 3(d)(iii)-(vi), to the extent, but only to the extent, related to the use by such Holder of an outdated, defective or otherwise unavailable Prospectus after the Company has notified such Holder in writing that the Prospectus is outdated, defective or otherwise unavailable for use by such Holder and prior to the receipt by such Holder of the Advice contemplated in Section 6(d), but only if and to the extent that following the receipt of the Advice the misstatement or omission giving rise to such Loss would have been corrected. In no event shall the liability of any selling Holder under this Section 5(b) be greater in amount than the dollar amount of the net proceeds actually received by such Holder upon the sale of the Registrable Securities giving rise to such indemnification obligation.

(c) Conduct of Indemnification Proceedings. If any Proceeding shall be brought or asserted against any Person entitled to indemnity hereunder (an "Indemnified Party"), such Indemnified Party shall promptly notify the Person from whom indemnity is sought (the "Indemnifying Party") in writing, and the Indemnifying Party shall have the right to assume the defense thereof, including the employment of counsel reasonably satisfactory to the Indemnified Party and the payment of all fees and expenses incurred in connection with defense thereof; provided, that, the failure of any Indemnified Party to give such notice shall not relieve the Indemnifying Party of its obligations or liabilities pursuant to this Agreement, except (and only) to the extent that it shall be finally determined by a court of competent jurisdiction (which determination is not subject to appeal or further review) that such failure shall have materially and adversely prejudiced the Indemnifying Party.

An Indemnified Party shall have the right to employ separate counsel in any such Proceeding and to participate in the defense thereof, but the fees and expenses of such counsel shall be at the expense of such Indemnified Party or Parties unless: (1) the Indemnifying Party has agreed in writing to pay such fees and expenses, (2) the Indemnifying Party shall have failed promptly to assume the defense of such Proceeding and to employ counsel reasonably satisfactory to such Indemnified Party in any such Proceeding, or (3) the named parties to any such Proceeding (including any impleaded parties) include both such Indemnified Party and the Indemnifying Party, and counsel to the Indemnified Party shall reasonably believe that a material conflict of interest is likely to exist if the same counsel were to represent such Indemnified Party and the Indemnifying Party (in which case, if such Indemnified Party notifies the Indemnifying Party in writing that it elects to employ separate counsel at the expense of the Indemnifying Party, the Indemnifying Party shall not have the right to assume the defense thereof and the reasonable fees and expenses of no more than one separate counsel shall be at the expense of the Indemnifying Party). The Indemnifying Party shall not be liable for any settlement of any such Proceeding effected without its written consent, which consent shall not be unreasonably withheld or delayed. No Indemnifying Party shall, without the prior written consent of the Indemnified Party, effect any settlement of any pending Proceeding in respect of which any Indemnified Party is a party, unless such settlement includes an unconditional release of such Indemnified Party from all liability on claims that are the subject matter of such Proceeding.

Subject to the terms of this Agreement, all reasonable fees and expenses of the Indemnified Party (including reasonable fees and expenses to the extent incurred in connection with investigating or preparing to defend such Proceeding in a manner not inconsistent with this Section) shall be paid to the Indemnified Party, as incurred, within ten Trading Days of written notice thereof to the Indemnifying Party; provided, that, the Indemnified Party shall promptly reimburse the Indemnifying Party for that portion of such fees and expenses applicable to such actions for which such Indemnified Party is finally determined by a court of competent jurisdiction (which determination is not subject to appeal or further review) not to be entitled to indemnification hereunder.

(d) Contribution. If the indemnification under Section 5(a) or 5(b) is unavailable to an Indemnified Party or insufficient to hold an Indemnified Party harmless for any Losses, then each Indemnifying Party shall contribute to the amount paid or payable by such Indemnified Party, in such proportion as is appropriate to reflect the relative fault of the Indemnifying Party and Indemnified Party in connection with the actions, statements or omissions that resulted in such Losses as well as any other relevant equitable considerations. The relative fault of such Indemnifying Party and Indemnified Party shall be determined by reference to, among other things, whether any action in question, including any untrue or alleged untrue statement of a material fact or omission or alleged omission of a material fact, has been taken or made by, or relates to information supplied by, such Indemnifying Party or Indemnified Party, and the parties' relative intent, knowledge, access to information and opportunity to correct or prevent such action, statement or omission. The amount paid or payable by a party as a result of any Losses shall be deemed to include, subject to the limitations set forth in this Agreement, any reasonable attorneys' or other fees or expenses incurred by such party in connection with any Proceeding to the extent such party would have been indemnified for such fees or expenses if the indemnification provided for in this Section was available to such party in accordance with its terms.

The parties hereto agree that it would not be just and equitable if contribution pursuant to this Section 5(d) were determined by pro rata allocation or by any other method of allocation that does not take into account the equitable considerations referred to in the immediately preceding paragraph. Notwithstanding the provisions of this Section 5(d), no Holder shall be required to contribute pursuant to this Section 5(d), in the aggregate, any amount in excess of the amount by which the net proceeds actually received by such Holder from the sale of the Registrable Securities subject to the Proceeding exceeds the amount of any damages that such Holder has otherwise been required to pay by reason of such untrue or alleged untrue statement or omission or alleged omission.

The indemnity and contribution agreements contained in this Section are in addition to any liability that the Indemnifying Parties may have to the Indemnified Parties.

#### 6. Miscellaneous.

(a) Remedies. In the event of a breach by the Company or by a Holder of any of their respective obligations under this Agreement, each Holder or the Company, as the case may be, in addition to being entitled to exercise all rights granted by law and under this Agreement, including recovery of damages, shall be entitled to specific performance of its rights under this Agreement. Each of the Company and each Holder agrees that monetary damages would not provide adequate compensation for any losses incurred by reason of a breach by it of any of the provisions of this Agreement and hereby further agrees that, in the event of any action for specific performance in respect of such breach, it shall not assert or shall waive the defense that a remedy at law would be adequate.

(b) No Piggyback on Registrations; Prohibition on Filing Other Registration Statements Neither the Company nor any of its security holders (other than the Holders in such capacity pursuant hereto) may include securities of the Company in any Registration Statements other than the Registrable Securities. The Company shall not file any other registration statements until all Registrable Securities are registered pursuant to a Registration Statement that is declared effective by the Commission, provided that this Section 6(b) shall not prohibit the Company from filing amendments to registration statements filed prior to the date of this Agreement.

(c) Compliance. Each Holder covenants and agrees that it will comply with the prospectus delivery requirements of the Securities Act as applicable to it (unless an exemption therefrom is available) in connection with sales of Registrable Securities pursuant to a Registration Statement.

(d) Discontinued Disposition. By its acquisition of Registrable Securities, each Holder agrees that, upon receipt of a notice from the Company of the occurrence of any event of the kind described in Section 3(d)(iii) through (vi), such Holder will forthwith discontinue disposition of such Registrable Securities under a Registration Statement until it is advised in writing (the "Advice") by the Company that the use of the applicable Prospectus (as it may have been supplemented or amended) may be resumed. The Company will use its reasonable best efforts to ensure that the use of the Prospectus may be resumed as promptly as is practicable. The Company agrees and acknowledges that any periods during which the Holder is required to discontinue the disposition of the Registrable Securities hereunder shall be subject to the provisions of Section 2(d).

(e) Piggy-Back Registrations. If, at any time during the Effectiveness Period, there is not an effective Registration Statement covering all of the Registrable Securities and the Company shall determine to prepare and file with the Commission a registration statement relating to an offering for its own account or the account of others under the Securities Act of any of its equity securities, other than on Form S-4 or Form S-8 (each as promulgated under the Securities Act) or their then equivalents relating to equity securities to be issued solely in connection with any acquisition of any entity or business or equity securities issuable in connection with the Company's stock option or other employee benefit plans, then the Company shall deliver to each Holder a written notice of such determination and, if within fifteen days after the date of the delivery of such notice, any such Holder shall so request in writing, the Company shall include in such registration statement all or any part of such Registrable Securities such Holder requests to be registered; provided, however, that the Company shall not be required to register any Registrable Securities pursuant to this Section 6(e) that are eligible for resale pursuant to Rule 144 (without volume restrictions or current public information requirements) promulgated by the Commission pursuant to the Securities Act or that are the subject of a then effective Registration Statement.

(f) Amendments and Waivers. The provisions of this Agreement, including the provisions of this sentence, may not be amended, modified or supplemented, and waivers or consents to departures from the provisions hereof may not be given, unless the same shall be in writing and signed by the Company and the Holders of 67% or more of the then outstanding Registrable Securities (for purposes of clarification, this includes any Registrable Securities issuable upon exercise or conversion of any Security). If a Registration Statement does not register all of the Registrable Securities pursuant to a waiver or amendment done in compliance with the previous sentence, then the number of Registrable Securities to be registered for each Holder shall be reduced pro rata among all Holders and each Holder shall have the right to designate which of its Registrable Securities shall be omitted from such Registration Statement. Notwithstanding the foregoing, a waiver or consent to depart from the provisions hereof with respect to a matter that relates exclusively to the rights of a Holder or some Holders and that does not directly or indirectly affect the rights of other Holders may be given only by such Holder or Holders of all of the Registrable Securities to which such waiver or consent relates; provided, however, that the provisions of this sentence may not be amended, modified, or supplemented except in accordance with the provisions of the first sentence of this Section 6(f). No consideration shall be offered or paid to any Person to amend or consent to a waiver or modification of any provision of this Agreement unless the same consideration also is offered to all of the parties to this Agreement.

(g) Notices. Any and all notices or other communications or deliveries required or permitted to be provided hereunder shall be delivered as set forth in the Purchase Agreement.

(h) Successors and Assigns. This Agreement shall inure to the benefit of and be binding upon the successors and permitted assigns of each of the parties and shall inure to the benefit of each Holder. The Company may not assign (except by merger) its rights or obligations hereunder without the prior written consent of all of the Holders of the then outstanding Registrable Securities. Each Holder may assign their respective rights hereunder in the manner and to the Persons as permitted under Section 5.7 of the Purchase Agreement.

(i) No Inconsistent Agreements. Neither the Company nor any of its Subsidiaries has entered, as of the date hereof, nor shall the Company or any of its Subsidiaries, on or after the date of this Agreement, enter into any agreement with respect to its securities, that would have the effect of impairing the rights granted to the Holders in this Agreement or otherwise conflicts with the provisions hereof. Neither the Company nor any of its Subsidiaries has previously entered into any agreement granting any registration rights with respect to any of its securities to any Person that have not been satisfied in full.

(j) Execution and Counterparts. This Agreement may be executed in two or more counterparts, all of which when taken together shall be considered one and the same agreement and shall become effective when counterparts have been signed by each party and delivered to the other party, it being understood that both parties need not sign the same counterpart. In the event that any signature is delivered by facsimile transmission or by e-mail delivery of a “.pdf” format data file, such signature shall create a valid and binding obligation of the party executing (or on whose behalf such signature is executed) with the same force and effect as if such facsimile or “.pdf” signature page were an original thereof.

(k) Governing Law. All questions concerning the construction, validity, enforcement and interpretation of this Agreement shall be determined in accordance with the provisions of the Purchase Agreement.

(l) Cumulative Remedies. The remedies provided herein are cumulative and not exclusive of any other remedies provided by law.

(m) Severability. If any term, provision, covenant or restriction of this Agreement is held by a court of competent jurisdiction to be invalid, illegal, void or unenforceable, the remainder of the terms, provisions, covenants and restrictions set forth herein shall remain in full force and effect and shall in no way be affected, impaired or invalidated, and the parties hereto shall use their commercially reasonable efforts to find and employ an alternative means to achieve the same or substantially the same result as that contemplated by such term, provision, covenant or restriction. It is hereby stipulated and declared to be the intention of the parties that they would have executed the remaining terms, provisions, covenants and restrictions without including any of such that may be hereafter declared invalid, illegal, void or unenforceable.

(n) Headings. The headings in this Agreement are for convenience only, do not constitute a part of the Agreement and shall not be deemed to limit or affect any of the provisions hereof.

(o) Independent Nature of Holders' Obligations and Rights. The obligations of each Holder hereunder are several and not joint with the obligations of any other Holder hereunder, and no Holder shall be responsible in any way for the performance of the obligations of any other Holder hereunder. Nothing contained herein or in any other agreement or document delivered at any closing, and no action taken by any Holder pursuant hereto or thereto, shall be deemed to constitute the Holders as a partnership, an association, a joint venture or any other kind of group or entity, or create a presumption that the Holders are in any way acting in concert or as a group or entity with respect to such obligations or the transactions contemplated by this Agreement or any other matters, and the Company acknowledges that the Holders are not acting in concert or as a group, and the Company shall not assert any such claim, with respect to such obligations or transactions. Each Holder shall be entitled to protect and enforce its rights, including without limitation the rights arising out of this Agreement, and it shall not be necessary for any other Holder to be joined as an additional party in any proceeding for such purpose. The use of a single agreement with respect to the obligations of the Company contained was solely in the control of the Company, not the action or decision of any Holder, and was done solely for the convenience of the Company and not because it was required or requested to do so by any Holder. It is expressly understood and agreed that each provision contained in this Agreement is between the Company and a Holder, solely, and not between the Company and the Holders collectively and not between and among Holders.

\*\*\*\*\*  
(Signature Pages Follow)

IN WITNESS WHEREOF, the parties have executed this Registration Rights Agreement as of the date first written above.

**RELMADA THERAPEUTICS, INC., A NEVADA  
CORPORATION**

By: \_\_\_\_\_

Name: Sergio Traversa

Title: Chief Executive Officer

[SIGNATURE PAGE OF PURCHASERS FOLLOWS]

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SIGNATURE PAGE OF PURCHASERS TO RELMADA THERAPEUTICS, INC.  
REGISTRATION RIGHTS AGREEMENT

**Investors:**

The Purchasers set forth on Appendix A to the Purchase Agreement have executed a Subscription Agreement with the Company which provides, among other things, that by executing the Subscription Agreement each Investor is deemed to have executed this REGISTRATION RIGHTS AGREEMENT in all respects and is bound to purchase the Units set forth in such Subscription Agreement and Appendix A to the Purchase Agreement.

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Plan of Distribution

Each Selling Stockholder (the "Selling Stockholders") of the securities and any of their pledgees, assignees and successors-in-interest may, from time to time, sell any or all of their securities covered hereby on the OTCQB tier of the OTC Markets Group, Inc. or any other stock exchange, market or trading facility on which the securities are traded or in private transactions. These sales may be at fixed or negotiated prices. A Selling Stockholder may use any one or more of the following methods when selling securities:

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

The Selling Stockholders may also sell securities under Rule 144 under the Securities Act of 1933, as amended (the "Securities Act"), if available, rather than under this prospectus.

Broker-dealers engaged by the Selling Stockholders may arrange for other brokers-dealers to participate in sales. Broker-dealers may receive commissions or discounts from the Selling Stockholders (or, if any broker-dealer acts as agent for the purchaser of securities, from the purchaser) in amounts to be negotiated, but, except as set forth in a supplement to this Prospectus, in the case of an agency transaction not in excess of a customary brokerage commission in compliance with FINRA Rule 2440; and in the case of a principal transaction a markup or markdown in compliance with FINRA IM-2440.

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

The Selling Stockholders and any broker-dealers or agents that are involved in selling the securities may be deemed to be “underwriters” within the meaning of the Securities Act in connection with such sales. In such event, any commissions received by such broker-dealers or agents and any profit on the resale of the securities purchased by them may be deemed to be underwriting commissions or discounts under the Securities Act. Each Selling Stockholder has informed the Company that it does not have any written or oral agreement or understanding, directly or indirectly, with any person to distribute the securities. In no event shall any broker-dealer receive fees, commissions and markups which, in the aggregate, would exceed eight percent (8%).

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

Because Selling Stockholders may be deemed to be “underwriters” within the meaning of the Securities Act, they will be subject to the prospectus delivery requirements of the Securities Act including Rule 172 thereunder. In addition, any securities covered by this prospectus which qualify for sale pursuant to Rule 144 under the Securities Act may be sold under Rule 144 rather than under this prospectus. The Selling Stockholders have advised us that there is no underwriter or coordinating broker acting in connection with the proposed sale of the resale securities by the Selling Stockholders.

We agreed to keep this prospectus effective until the earliest of (i) one (1) year from the date the Registration Statement is declared effective by the Commission, (ii) the date on which the securities may be resold by the Selling Stockholders without registration and without regard to any volume or manner-of-sale limitations by reason of Rule 144, without the requirement for the Company to be in compliance with the current public information under Rule 144 under the Securities Act or any other rule of similar effect or (iii) the date on which all of the securities have been sold pursuant to this prospectus or Rule 144 under the Securities Act or any other rule of similar effect. The resale securities will be sold only through registered or licensed brokers or dealers if required under applicable state securities laws. In addition, in certain states, the resale securities covered hereby may not be sold unless they have been registered or qualified for sale in the applicable state or an exemption from the registration or qualification requirement is available and is complied with.

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

**RELMADA THERAPEUTICS, INC.**

**Selling Stockholder Notice and Questionnaire**

The undersigned beneficial owner of common stock (the "Registrable Securities") of Relmada Therapeutics, Inc., a Nevada corporation (the "Company"), understands that the Company has filed or intends to file with the Securities and Exchange Commission (the "Commission") a registration statement (the "Registration Statement") for the registration and resale under Rule 415 of the Securities Act of 1933, as amended (the "Securities Act"), of the Registrable Securities, in accordance with the terms of the Registration Rights Agreement (the "Registration Rights Agreement") to which this document is annexed. A copy of the Registration Rights Agreement is available from the Company upon request at the address set forth below. All capitalized terms not otherwise defined herein shall have the meanings ascribed thereto in the Registration Rights Agreement.

Certain legal consequences arise from being named as a selling stockholder in the Registration Statement and the related prospectus. Accordingly, holders and beneficial owners of Registrable Securities are advised to consult their own securities law counsel regarding the consequences of being named or not being named as a selling stockholder in the Registration Statement and the related prospectus.

**NOTICE**

The undersigned beneficial owner (the "Selling Stockholder") of Registrable Securities hereby elects to include the Registrable Securities owned by it in the Registration Statement.

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The undersigned hereby provides the following information to the Company and represents and warrants that such information is accurate:

**QUESTIONNAIRE**

**1. Name.**

(a) Full Legal Name of Selling Stockholder

\_\_\_\_\_

(b) Full Legal Name of Registered Holder (if not the same as (a) above) through which Registrable Securities are held:

\_\_\_\_\_

(c) Full Legal Name of Natural Control Person (which means a natural person who directly or indirectly alone or with others has power to vote or dispose of the securities covered by this Questionnaire):

\_\_\_\_\_

**2. Address for Notices to Selling Stockholder:**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

Contact Person: \_\_\_\_\_

\_\_\_\_\_

**3. Broker-Dealer Status:**

(a) Are you a broker-dealer?

Yes  No

(b) If "yes" to Section 3(a), did you receive your Registrable Securities as compensation for investment banking services to the Company?

Yes  No

Note: If "no" to Section 3(b), the Commission's staff has indicated that you should be identified as an underwriter in the Registration Statement.

(c) Are you an affiliate of a broker-dealer?

Yes  No

(d) If you are an affiliate of a broker-dealer, do you certify that you purchased the Registrable Securities in the ordinary course of business, and at the time of the purchase of the Registrable Securities to be resold, you had no agreements or understandings, directly or indirectly, with any person to distribute the Registrable Securities?

Yes  No

Note: If "no" to Section 3(d), the Commission's staff has indicated that you should be identified as an underwriter in the Registration Statement.

**4. Beneficial Ownership of Securities of the Company Owned by the Selling Stockholder.**

*Except as set forth below in this Item 4, the undersigned is not the beneficial or registered owner of any securities of the Company other than the securities issuable pursuant to the Purchase Agreement.*

(a) Type and amount of other securities beneficially owned by the Selling Stockholder:

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**5. Relationships with the Company:**

*Except as set forth below, neither the undersigned nor any of its affiliates, officers, directors or principal equity holders (owners of 5% of more of the equity securities of the undersigned) has held any position or office or has had any other material relationship with the Company (or its predecessors or affiliates) during the past three years.*

State any exceptions here:

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The undersigned agrees to promptly notify the Company of any inaccuracies or changes in the information provided herein that may occur subsequent to the date hereof at any time while the Registration Statement remains effective.

By signing below, the undersigned consents to the disclosure of the information contained herein in its answers to Items 1 through 5 and the inclusion of such information in the Registration Statement and the related prospectus and any amendments or supplements thereto. The undersigned understands that such information will be relied upon by the Company in connection with the preparation or amendment of the Registration Statement and the related prospectus and any amendments or supplements thereto.

IN WITNESS WHEREOF the undersigned, by authority duly given, has caused this Notice and Questionnaire to be executed and delivered either in person or by its duly authorized agent.

**Beneficial Owner (Individual)**

**Beneficial Owner (Entity)**

\_\_\_\_\_  
Print Name

\_\_\_\_\_  
Print Name of Entity

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Date

**PLEASE FAX A COPY (OR EMAIL A .PDF COPY) OF THE COMPLETED AND EXECUTED NOTICE AND QUESTIONNAIRE, AND RETURN THE ORIGINAL BY OVERNIGHT MAIL, TO:**

**Thomas Slusarczyk, Esq.  
The Matt Law Firm, PLLC  
Email: [tslusarczyk@mattlawfirm.com](mailto:tslusarczyk@mattlawfirm.com)  
Fax: (315) 624-7359**

CERTIFICATION OF CHIEF EXECUTIVE OFFICER  
PURSUANT TO  
18 U.S.C. SECTION 1350,  
AS ADOPTED PURSUANT TO SECTION 302 OF  
THE SARBANES-OXLEY ACT OF 2002

I, Sergio Traversa, certify that:

1. I have reviewed this Form 10-Q of Relmada 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 present in this report;
4. I am 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 13-a-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 financing 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. 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 involved management or other employees who have a significant role in the registrant's internal control over financial reporting.

Relmada Therapeutics, Inc.

By: /s/ Sergio Traversa  
Sergio Traversa  
Chief Executive Officer  
(Principal Executive Officer)

November 13, 2019

CERTIFICATION OF PRINCIPAL FINANCIAL AND ACCOUNTING OFFICER  
PURSUANT TO  
18 U.S.C. SECTION 1350,  
AS ADOPTED PURSUANT TO SECTION 302 OF  
THE SARBANES-OXLEY ACT OF 2002

I, Charles Ence, certify that:

1. I have reviewed this Form 10-Q of Relmada 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 present in this report;
4. I am 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 principals;
  - 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 financing 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. 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 involved management or other employees who have a significant role in the registrant's internal control over financial reporting.

Relmada Therapeutics, Inc.

By: /s/ Charles Ence  
Charles Ence  
Chief Financial Officer

November 13, 2019

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

In connection with the Quarterly Report of Relmada Therapeutics, Inc. (the "Company") on Form 10-Q for the three months ended September 30, 2019 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Sergio Traversa, Chief Executive Officer of the Company, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:

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

Relmada Therapeutics, Inc.

By: /s/ Sergio Traversa  
Sergio Traversa  
Chief Executive Officer  
(Principal Executive Officer)

November 13, 2019

CERTIFICATION OF PRINCIPAL FINANCIAL AND ACCOUNTING OFFICER  
PURSUANT TO  
18 U.S.C. SECTION 1350,  
AS ADOPTED PURSUANT TO  
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Quarterly Report of Relmada Therapeutics, Inc. (the "Company") on Form 10-Q for the three months ended September 30, 2019 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Charles Ence, Chief Financial Officer of the Company, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:

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

Relmada Therapeutics, Inc.

By: /s/ Charles Ence  
Charles Ence  
Chief Financial Officer

November 13, 2019