UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 8-K

CURRENT REPORT

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of report (Date of earliest event reported): May 11, 2017

SELECTA BIOSCIENCES, INC.

(Exact name of registrant as specified in its charter)

Delaware001-3779826-1622110(State or other jurisdiction of
incorporation or organization)(Commission
File Number)(I.R.S. Employer
Identification No.)

480 Arsenal Way Watertown, MA 02472 (Address of principal executive offices) (Zip Code)

(617) 923-1400

(Registrant's telephone number, include area code)

(Former Name or Former Address, if Changed Since Last Report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

- o Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- o Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- o Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- o Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).

Emerging growth company \boxtimes

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. \boxtimes

Item 2.02. Results of Operations and Financial Condition.

On May 11, 2017, Selecta Biosciences, Inc. (the "Company") announced its financial results for the quarter ended March 31, 2017. The full text of the press release issued in connection with the announcement is furnished as Exhibit 99.1 to this Current Report on Form 8-K.

The information contained in Item 2.02 of this Form 8-K (including Exhibit 99.1 related thereto) shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or otherwise subject to the liabilities of 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 provided by specific reference in such a filing.

Item 7.01. Regulation FD Disclosure.

In connection with the issuance of the press release attached hereto as Exhibit 99.1, the Company is holding a public conference call and webcast on May 11, 2017, at 5:00 p.m. ET, during which the Company will provide the investor presentation attached as Exhibit 99.2 to this Current Report.

The information furnished under this Item 7.01 (including Exhibit 99.2 related thereto) shall not be deemed "filed" for purposes of Section 18 of the Exchange Act, or otherwise subject to the liabilities of that section, nor shall it be deemed incorporated by reference into any filing under the Securities Act, or the Exchange Act, except as expressly provided by specific reference in such a filing.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits

The following exhibit relating to Item 2.02 shall be deemed to be furnished, and not filed:

Exhibit No.	Description
99.1	Press Release issued on May 11, 2017
99.2	Investor Presentation dated May 11, 2017

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 hereunto duly authorized.

SELECTA BIOSCIENCES, INC.

Date: May 11, 2017 By: /s/ Werner Cautreels, Ph.D.

Werner Cautreels, Ph.D.

President and Chief Executive Officer

EXHIBIT INDEX

Exhibit No.		Description
99	9.1	Press Release issued on May11, 2017
00	0.2	Investor Presentation dated May 11, 2017



Selecta Biosciences Announces First Quarter 2017 Financial Results and Provides Corporate Update

- On Track to Complete Phase 2 Trial of Lead Product Candidate, SEL-212, in 2017
- Licensed LMB-100, a Clinical-Stage Candidate for Mesothelioma and Pancreatic Cancer, from the National Cancer Institute (NCI)
- Obtained Synthetic Transgene License for MMA Gene Therapy Program
- Initiated Nicotine Vaccine Phase 1 Trial for Smoking Cessation and Relapse Prevention with Funding Primarily from the National Institutes of Health (NIH)
- Company to Host Conference Call Today at 5:00 p.m. ET

Watertown, Mass., May 11, 2017 - <u>Selecta Biosciences, Inc.</u> (NASDAQ: SELB), a clinical-stage biopharmaceutical company focused on unlocking the full potential of biologic therapies by avoiding unwanted immune responses, today reported financial results for the first quarter ended March 31, 2017 and provided a corporate update.

"Selecta continues to make great strides in 2017," said Werner Cautreels, Ph.D., CEO and Chairman of Selecta. "Enrollment in the Phase 2 trial of our lead product candidate, SEL-212, continues to be faster than anticipated, and we remain on track to complete the trial in 2017. In addition, we recently added a clinical-stage oncology product candidate, LMB-100, to our proprietary pipeline and plan to combine it with SVP-Rapamycin in a clinical program for mesothelioma and pancreatic cancer with our collaborators at NCI. We also obtained a key license for our MMA gene therapy program, and we began dosing patients in a Phase 1 trial of our nicotine vaccine candidate for smoking cessation and relapse prevention. These programs highlight the far-reaching potential of our Synthetic Vaccine Particles (SVPTM) technology platform and the strong execution of the Selecta team."

SEL-212 Phase 2 Trial Update

In the fourth quarter of 2016, Selecta began enrolling patients with symptomatic gout and elevated serum uric acid levels (above 6.0 mg/dL) in an open-label, multiple ascending dose Phase 2 clinical trial of SEL-212 (SVP-Rapamycin in combination with pegsiticase). The primary and secondary endpoints for this trial include safety, tolerability, pharmacokinetics, reduction of serum uric acid levels and reduction of ADA levels. Data also are being collected regarding flares and additional laboratory and clinical assessments. Patients are being enrolled in multiple ascending dose cohorts to enable the identification of the optimal dose ratio of SVP-Rapamycin and pegsiticase, the minimal effective dose level of SEL-212 for repeat monthly administration, and the dose regimen to take forward into Phase 3.

As of May 10, 2017, a total of 58 patients had been dosed in the Phase 2 trial in eight cohorts. During the week of June 12, 2017, Selecta is presenting at the Annual European Congress of Rheumatology (EULAR 2017) in Madrid, Spain and at the Federation of Clinical Immunology Societies Annual Meeting (FOCIS 2017) in Chicago and plans to report additional data from the ongoing Phase 2 trial at that time. The company expects that it will complete the trial in 2017 and initiate its Phase 3 program in 2018.

Additional Recent Business Highlights and Activities

- Entered the Field of Oncology: Earlier this month, Selecta announced that it had licensed LMB-100, a clinical-stage, next-generation recombinant immunotoxin, from the Center for Cancer Research at NCI, part of NIH. LMB-100 contains a potent toxin that is derived from Pseudomonas exotoxin A and is attached to an antibody that targets mesothelin. Mesothelin is overexpressed in all mesotheliomas, pancreatic adenocarcinomas and a high percentage of other malignancies, including ovarian, lung and breast cancers. Clinical data with LMB-100 indicate that undesired antibody responses to this immunotoxin have prevented most patients from receiving the intended four or more treatment cycles. However, tumor regression was observed in the two patients who were able to receive more than two cycles of a precursor to LMB-100 in combination with potent immunosuppressive drugs. On the basis of these clinical data and preclinical data produced together with NCI, Selecta believes that a combination of LMB-100 and SVP-Rapamycin may allow patients to avoid these antibody responses and benefit from multiple treatment cycles. Selecta and NCI are currently in discussions regarding a planned Phase 1b clinical trial to evaluate multiple cycles of this combination treatment.
- Further Advanced its Lead Gene Therapy Program in MMA: In April 2017, Selecta licensed a proprietary synthetic transgene known as synthetic polynucleotides encoding human methylmalonyl-CoA mutase (synMUT) from the U.S. Department of Health and Human Services, part of NIH. Discovered in the laboratory of Dr. Charles Venditti, synMUT was optimized for expression of human methylmalonyl-CoA mutase, the enzyme missing or defective in patients suffering from Methylmalonic Acidemia (MMA), and demonstrated curative efficacy in animal disease models. Selecta is utilizing synMUT with its proprietary Anc80 viral capsid for MMA. In the first quarter of 2017, Selecta signed a manufacturing agreement with Lonza Houston, Inc. for Anc80. Preclinical data regarding the use of Anc80-synMUT in MMA is being presented today (Abstract 404) at the Annual Meeting of the American Society of Gene & Cell Therapy (ASGCT) in Washington, D.C. In addition, a team led by Federico Mingozzi, Ph.D., Head of Immunology and Liver Gene Therapy at Genethon, is presenting preclinical data tomorrow at ASGCT (Abstract 521) regarding repeated gene therapy administration using SVP-Rapamycin.
- Commenced Dosing in a Phase 1 Trial of a Nicotine Vaccine for Smoking Cessation and Relapse Prevention Trial: In a separate announcement today, Selecta reported that it has commenced dosing in a Phase 1 clinical trial to assess the safety, tolerability and pharmacodynamic profile of SELA-070, a nicotine vaccine candidate in development for smoking cessation and relapse prevention. Unlike Selecta's immune tolerance product candidates, which seek to avoid the production of antibodies, this treatment is intended to produce a high level of anti-nicotine antibodies that bind to the nicotine inhaled by smokers, thus preventing it from crossing the blood-brain barrier and triggering an addictive response. Funding for the product candidate and the Phase 1 trial is being provided primarily by the National Institute on Drug Abuse (NIDA), part of NIH (grant # U01DA037592).

First Quarter Financial Results:

- Revenue: For the first quarter of 2017, the company's total revenue was \$0.1 million, which compares with \$2.1 million for the first quarter of 2016. The decline is primarily the result of reduced revenue from the company's award with NIDA as well as the recent termination of the company's collaboration with Sanofi.
- Research and Development Expenses: Research and development expenses for the first quarter of 2017 were \$11.0 million, which compares with \$6.6 million for the first quarter of 2016. The increase is primarily the result of increased clinical trial-related activities as well as increased headcount, salary and stock compensation expense.
- <u>General and Administrative Expenses:</u> General and administrative expenses for the first quarter of 2017 were \$3.9 million, which compares with \$2.4 million for the first quarter of 2016. The increase is primarily the result of increased salary, legal, accounting, consulting and insurance fees associated with being a public company.

- Net Loss: For the first quarter of 2017, Selecta reported a net loss attributable to common stockholders of \$(15.1) million, or \$(0.82) per share, compared to a net loss of \$(9.8) million, or \$(4.52) per share, for the same period in 2016. The decrease in net loss per share in the most recent quarter is primarily the result of shares of common stock that were issued in the company's June 2016 initial public offering (IPO) and conversion of Selecta's redeemable preferred stock into common stock in connection with the IPO, partially offset by an increase in net loss for the period.
- <u>Cash Position:</u> Selecta had \$68.9 million in cash, cash equivalents, short-term deposits, investments and restricted cash as of March 31, 2017, which compares with a balance of \$84.5 million at December 31, 2016. Selecta continues to expect that its cash, cash equivalents, short-term deposits, investments and restricted cash will be sufficient to fund the company's operating expenses and capital expenditure requirements into mid-2018.

Conference Call Reminder

Selecta management will host a conference call at 5:00 p.m. ET today to provide a corporate update and review the company's first quarter financial results. Investors and the public can access a live and archived webcast of this call via the Investors & Media section of the company's website, http://selectabio.com. Individuals may also participate in the call via telephone by dialing (877) 270-2148 (domestic) or (412) 902-6510 (international) and may access a teleconference replay for one week by dialing (877) 344-7529 (domestic) or (412) 317-0088 (international) and using confirmation code 10106207.

About Selecta Biosciences, Inc.

Selecta Biosciences, Inc. is a clinical-stage biopharmaceutical company that is focused on unlocking the full potential of biologic therapies by avoiding unwanted immune responses. Selecta plans to combine its tolerogenic Synthetic Vaccine Particles (SVPTM) to a range of biologics for rare and serious diseases that require new treatment options. The company's current proprietary pipeline includes SVP-enabled enzyme, oncology and gene therapies. SEL-212, the company's lead candidate in Phase 2, is being developed to treat severe gout patients and resolve their debilitating symptoms, including flares and gouty arthritis. Selecta's clinical oncology candidate, LMB-100, is in a Phase 1 program targeting pancreatic cancer and mesothelioma. Its two proprietary gene therapy product candidates are being developed for rare inborn errors of metabolism and have the potential to enable repeat administration. The use of SVP is also being explored in the development of vaccines and treatments for allergies and autoimmune diseases. Selecta is based in Watertown, Massachusetts. For more information, please visit http://selectabio.com and follow @SelectaBio on Twitter.

Forward-Looking Statements

Any statements in this press release about the future expectations, plans and prospects of Selecta Biosciences, Inc. ("the company"), including without limitation, statements regarding the progress of the Phase 1/2 clinical program of SEL-212 including the pace of enrollment, the potential of SEL-212 to treat severe gout patients and resolve their debilitating symptoms, whether the Phase 2 of SEL-212 will be completed in 2017 and whether the Phase 3 trial will be initiated in 2018, the company's ability to unlock the full potential of biologic therapies, the potential applications for products utilizing the SVP platform in areas such as enzyme therapy, gene therapy, oncology therapy, vaccines and treatments for allergies and autoimmune diseases, whether the combination of LMB-100 and SVP-Rapamycin may allow patients to avoid antibody responses and benefit from a full treatment of LMB-100, whether Selecta and NCI initiate a Phase 1b clinical trial of the LMB-100 and SVP-Rapamycin combination, the potential of the company's two gene therapy product candidates to enable repeat administration, the progress of the company's Phase I clinical trial in SELA-070, statements regarding the ability of SELA-070 to achieve smoking cessation and relapse prevention, statements regarding SELA-070's ability to produce a high level of anti-nicotine antibodies and ultimately prevent nicotine from crossing the blood-brain barrier, the sufficiency of the company's cash, cash equivalents, investments, and restricted cash and other statements containing the words "anticipate,"

"believe," "continue," "could," "estimate," "expect," "hypothesize," "intend," "may," "plan," "potential," "predict," "project," "should," "target," "would," and similar expressions, constitute forward-looking statements within the meaning of The Private Securities Litigation Reform Act of 1995. Actual results may differ materially from those indicated by such forward-looking statements as a result of various important factors, including, but not limited to, the following: the uncertainties inherent in the initiation, completion and cost of clinical trials including their uncertain outcomes, the unproven approach of the company's SVP technology, undesirable side effects of the company's product candidates, its reliance on third parties to manufacture its product candidates and to conduct its clinical trials, the company's inability to maintain its existing or future collaborations, licenses or contractual relationships, its inability to protect its proprietary technology and intellectual property, potential delays in regulatory approvals, the availability of funding sufficient for its foreseeable and unforeseeable operating expenses and capital expenditure requirements, substantial fluctuation in the price of its common stock, a significant portion of the company's total outstanding shares have recently become eligible to be sold into the market, and other important factors discussed in the "Risk Factors" section of the company's Annual Report on Form 10-K filed with the Securities and Exchange Commission, or SEC, on March 28, 2017, and in other filings that the company makes with the SEC. In addition, any forward-looking statements included in this press release represent the company's views only as of the date of its publication and should not be relied upon as representing its views as of any subsequent date. The company specifically disclaims any obligation to update any forward-looking statements included in this press release.

Selecta Biosciences, Inc. and Subsidiaries

Consolidated Balance Sheets

(In thousands, except for shares and par value)

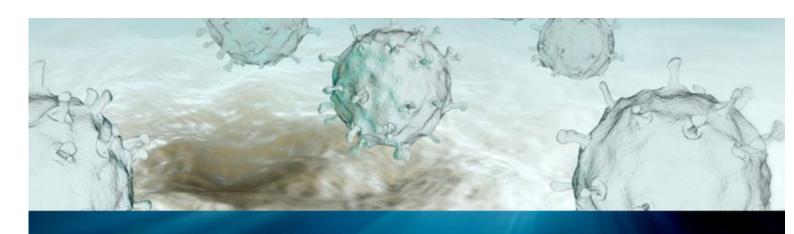
	March 31, 2017		March 31, 2017 December 31, 20	
Assets				
Current assets:				
Cash and cash equivalents				
Short-term deposits and investments	\$	26,637	\$	58,656
Restricted cash		41,885		25,485
Accounts receivable		81		78
Prepaid expenses and other current assets		63		215
Total current assets		2,820		2,382
Property and equipment, net		71,486		86,816
Restricted cash and other deposits		2,054		2,047
Other assets		316		316 122
Total assets	\$	73,856	\$	89,301
Liabilities and stockholders' equity	3	73,030	J.	09,301
Current liabilities:				
Accounts payable	\$	1,317	\$	3,882
Accrued expenses	ý.	5,521	Ψ	3,921
Loans payable, current portion		4,519		4,067
Deferred revenue, current portion		1,947		1,836
Total current liabilities		13,304		13,706
Non-current liabilities:		15,504		13,700
Deferred rent and lease incentive		210		222
Loans payable, net of current portion		6,867		7,977
Deferred revenue, net of current portion		12,385		12,439
Total liabilities		32,766		34,344
Stockholders' equity:				
Preferred stock, \$0.0001 par value; 10,000,000 shares authorized; no shares issued and outstanding at March 31, 2017 and December 31, 2016, respectively. Common stock, \$0.0001 par value; 200,000,000 shares authorized; 18,552,385 and 18,438,742 shares issued and outstanding as of March 31, 2017 and December		_		_
31, 2016, respectively.		1		1
Additional paid-in capital		212,249		211,125
Receivable from stock option exercises		(70)		(75)
Accumulated deficit		(166,710)		(151,576)
Accumulated other comprehensive loss		(4,380)		(4,518)
Total stockholders' equity		41,090		54,957
Total liabilities, redeemable convertible preferred stock and stockholders' equity	\$	73,856	\$	89,301

Selecta Biosciences, Inc. and Subsidiaries **Consolidated Statements of Operations and Comprehensive Loss** (Unaudited, amounts in thousands, except share and per share data)

	Three Month	Three Months Ended March 31,	
	2017	2016	
Grant and collaboration revenue	\$ 137	\$ 2,088	
Operating expenses:			
Research and development	11,044	6,648	
General and administrative	3,875	2,381	
Total operating expenses	14,919	9,029	
Loss from operations	(14,782)	(6,941)	
Investment income	113	13	
Foreign currency transaction gain (loss), net	(165)	(220)	
Interest expense	(300)		
Other expense, net		(18)	
Net loss	(15,134)		
Other comprehensive loss:			
Foreign currency translation adjustment	123	231	
Unrealized gain (loss) on securities	15	_	
Comprehensive loss	\$ (14,996)) \$ (7,245)	
Net loss	(15,134)		
Accretion of redeemable convertible preferred stock		(2,356)	
Net loss attributable to common stockholders	\$ (15,134)		
Net loss per share attributable to common stockholders		= =====================================	
Basic and diluted	\$ (0.82)) \$ (4.52)	
Weighted average common shares outstanding			
Basic and diluted	18,474,227	2,175,037	

Contact Information:

Jason Fredette Selecta Biosciences, Inc. 617-231-8078 jfredette@selectabio.com



First Quarter 2017 Conference Call



May 11, 2017

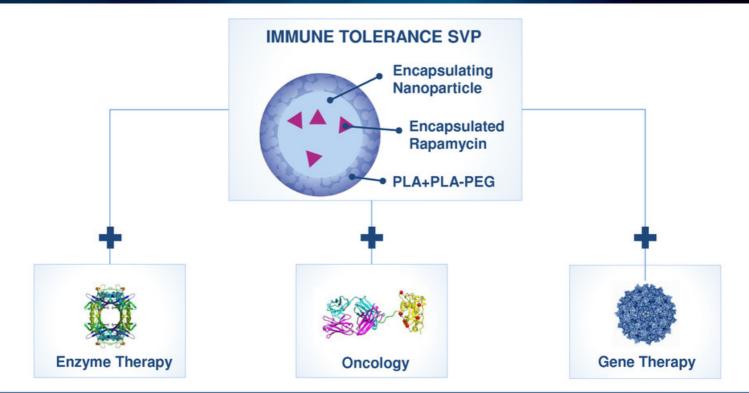
Safe Harbor / Disclaimer

Any statements in this presentation about the future expectations, plans and prospects of Selecta Biosciences, Inc. ("the company"), including without limitation, statements regarding the development of its pipeline, the company's expectations about receiving additional payments from Spark Therapeutics, Inc. under the license agreement and/or the stock purchase agreement, the progress of the Phase 1/2 clinical program of SEL-212, the potential of SEL-212 to treat severe gout patients and resolve their debilitating symptoms, the announcement of data, conference presentations, the ability of the company's SVP platform, including SVP-Rapamycin, to mitigate immune response and create better therapeutic outcomes, the potential treatment applications for products utilizing the SVP platform in areas such as enzyme therapy, gene therapy, oncology therapy, vaccines and treatments for allergies and autoimmune diseases, any future development of the company's discovery programs in peanut allergy and/or celiac disease, the potential of the company's two gene therapy product candidates to enable repeat administration, the progress of the company's Phase I clinical trial in SELA-070, statements regarding the ability of SELA-070 to achieve smoking cessation and relapse prevention. whether SELA-070 will induce a strong and durable immune response in smokers, whether SELA-070 triggers the production of a high level of anti-nicotine antibodies and ultimately prevents nicotine from crossing the blood-brain barrier, the sufficiency of the company's cash, cash equivalents, investments, and restricted cash and other statements containing the words "anticipate," "believe," "continue," "could," "estimate," "expect," "hypothesize," "intend," "may," "plan," "potential," "predict," "project," "should," "target," "would," and similar expressions, constitute forward-looking statements within the meaning of The Private Securities Litigation Reform Act of 1995. Actual results may differ materially from those indicated by such forward-looking statements as a result of various important factors, including, but not limited to, the following: the uncertainties inherent in the initiation, completion and cost of clinical trials including their uncertain outcomes, the availability and timing of data from ongoing and future clinical trials and the results of such trials, whether preliminary results from a particular clinical trial will be predictive of the final results of that trial or whether results of early clinical trials will be indicative of the results of later clinical trials, the unproven approach of the company's SVP technology, potential delays in enrollment of patients, undesirable side effects of the company's product candidates, its reliance on third parties to manufacture its product candidates and to conduct its clinical trials, the company's inability to maintain its existing or future collaborations or licenses, its inability to protect its proprietary technology and intellectual property, potential delays in regulatory approvals, the availability of funding sufficient for its foreseeable and unforeseeable operating expenses and capital expenditure requirements, substantial fluctuation in the price of its common stock, a significant portion of the company's total outstanding shares have recently become eligible to be sold into the market, and other important factors discussed in the "Risk Factors" section of the company's Annual Report on Form 10-K filed with the Securities and Exchange Commission, or SEC, on March 28, 2017, and in other filings that the company makes with the SEC. In addition, any forward-looking statements included in this presentation represent the company's views only as of the date of its publication and should not be relied upon as representing its views as of any subsequent date. The company specifically disclaims any obligation to update any forward-looking statements included in this presentation.



Applying Selecta's Immune Tolerance Platform in Three Core Areas



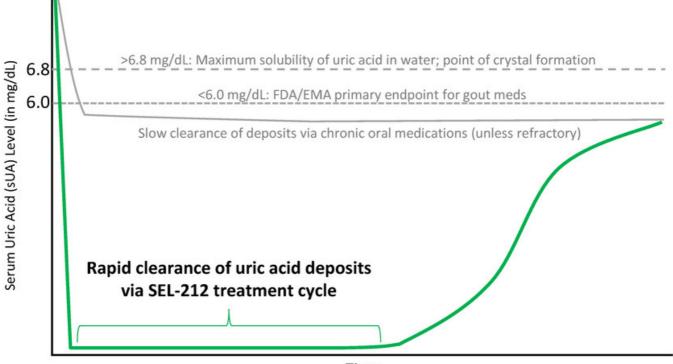


SVP-Rapamycin's preclinical, clinical and manufacturing data can be applied across a broad range of product candidates





SEL-212 Designed to Treat Severe Gout Patients, Addressing an Important Unmet Need



Time



Phase 2 Trial Overview

Enrollment Criteria	Patients with symptomatic gout and serum uric acid levels >6 mg/dL
Primary/Secondary Endpoints	 Safety, tolerability and pharmacokinetics of multiple doses of SEL-212 and pegsiticase alone Reduction of ADA levels Reduction of serum uric acid levels
Design	Multiple ascending dose cohorts
Dosing	 Control cohorts: pegsiticase alone every 28 days for up to five doses All other cohorts: SEL-212 every 28 days for three doses followed by two doses of pegsiticase alone
Stopping Rules	Dosing stopped upon failure to control serum uric acid
Trial Completion	Expected by the end of 2017
As of May 10, 2017	58 patients dosed at 10 active U.S. clinical sites



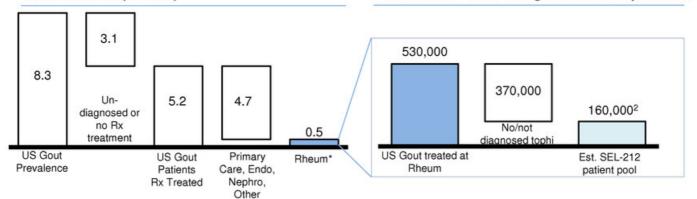
Clinicaltrials.gov NCT02959918

Severe Gout is a Rare and Serious Disease with Substantial Unmet Needs



Gout Patients (million)1

Estimated SEL-212 Target Patient Population¹



Severe, Uncontrolled Gout Target Patient Population

- Experience intense pain, inflammation, gouty arthritis and debilitating flares caused by uric acid crystal deposits in joints and tissue
- · At risk for kidney and cardiovascular disease if left untreated
- High unmet need for patients today



* Rheumatologists see an estimated 10% of treated gout patients
(1) Source: IMS, Desk Research, Selecta Rheum interviews, Crystal patient registry
(2) Includes an estimated 50,000 patients with chronic refractory gout



LMB-100 Immunotoxin Overview

- LMB-100: Pseudomonas exotoxin A linked to antibody Fab targeting mesothelin
- · Currently in Phase 1 clinical trials
- · Efficacy limited by formation of ADAs

LMB-100



Anti-mesothelin Fab

Pseudomonas exotoxin A domain III with mutated B cell epitopes



Ira Pastan, M.D. Head, Molecular Biology Section National Cancer Institute

Mesothelin overexpressed on many solid tumors:

- Mesothelioma (~100%)
- Pancreatic cancer (~100%)
- Ovarian cancer (70%)
- Lung cancer (50%)
- Breast cancer (34%)
- Gastric cancer



Phase 1 Clinical Activity of SS1P Precursor to LMB-100 in Mesothelioma



Benefit of LMB-100 Precursor + Immunosuppressives in Patients Receiving Multiple Treatment Cycles

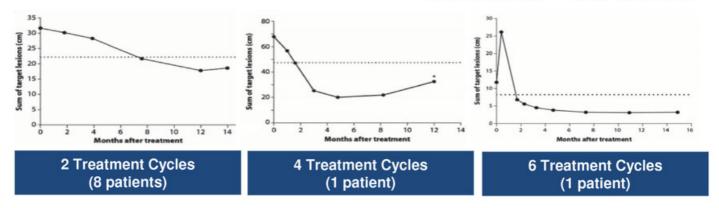
- ADAs limited number of treatment cycles despite heavy immunosuppressive therapy
- Patients that tolerated multiple cycles showed significant anti-tumor responses and "unprecedented" long-term remission





Before treatment

After 1.6 months



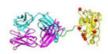


Hassan, Pastan et al. Cancer Research (2014)

Preclinical Data Supports the Promise of SVP-Rapamycin + LMB-100 Combination Therapy







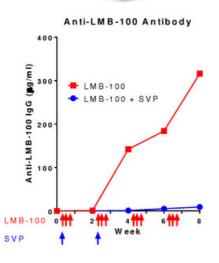
SVP-Rapamycin

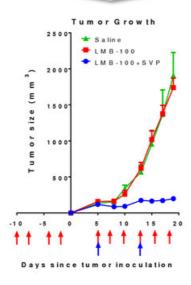
LMB-100

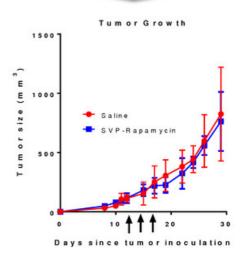
Prevents formation of anti-drug antibodies

Restores LMB-100's anti-tumor response

SVP alone does not accelerate tumor growth







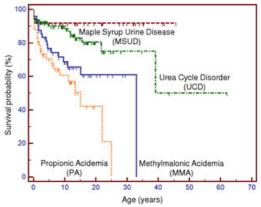


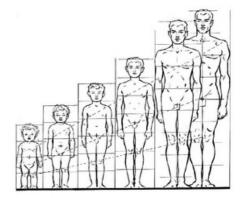


Example: Repeat Dosing for Lifelong Treatment

- Selecta's gene therapy programs are targeting rare and severe metabolic diseases with high mortality
- Virtually all MMA patients die by age 35
- About half of patients with UCDs, such as OTC, die by the age of 40
- Early treatment improves outcomes
- Gene therapy holds the potential to correct these defects, but transgenes can be diluted by growth
- Redosing could change the paradigm for patients

Mortality of Inborn Errors of Metabolism*







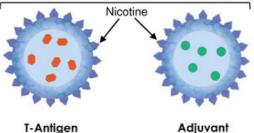
*Source: John Walter, M.D., Consultant Pediatrician, Inherited Metabolic Disease, Royal Manchester Children's Hospital, U.K.



Dosing Now Underway in Phase 1 Trial of Nicotine Vaccine for Smoking Cessation & Relapse Prevention

- Program being funded by National Institute on Drug Abuse, part of NIH
- SELA-070: Our second-generation vaccine candidate, consisting of nicotine-conjugated nanoparticles encapsulating immune stimulating agents
- Designed to induce strong, durable immune response by triggering anti-nicotine antibodies that bind with nicotine to prevent an addictive response
- Plan to enroll 48 smokers in Belgium with results expected by mid-2018





Particle

SEL-020

Particle

SEL-034

As the leading cause of preventable disease and mortality, smoking remains one of the greatest threats to public health



Q1 Financial Overview

	For the Quarter Ended		
(In thousands, except share and per share data)	March 31, 2017	March 31, 2016	
Grant & Collaboration Revenue	\$137	\$2,088	
Research & Development Expenses	11,044	6,648	
General & Administrative Expenses	3,875	2,381	
Net Loss Attributable to Common Stockholders	(\$15,134)	(\$9,832)	
Net Loss Per Basic Share	(\$0.82)	(\$4.52)	
Wtd. Avg. Common Shares Outstanding - Basic & Diluted	18,474,227	2,175,037	

	As	of
thousands)	March 31, 2017	December 31, 2016
n, Cash Equivalents, Marketable Securities, Restricted Cash	\$68,919	\$84,535

Selecta believes its cash, cash equivalents, short-term deposits, investments and restricted cash will be sufficient to fund the company into mid-2018



