

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): January 13, 2020

SELECTA BIOSCIENCES, INC.
(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction
of incorporation)

001-37798
(Commission
File Number)

26-16222110
(IRS Employer
Identification No.)

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

(617) 923-1400
Registrant's telephone number, including area code

N/A
(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:

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

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

Title of each class Common Stock, \$0.0001 par value per share	Trading Symbol(s) SELB	Name of each exchange on which registered Nasdaq Global Market
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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

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.

Item 7.01. Regulation FD Disclosure.

Selecta Biosciences, Inc. (the "Company") from time to time presents and/or distributes to the investment community at various industry and other conferences slide presentations to provide updates and summaries of its business. A copy of its current corporate slide presentation is attached to this Current Report on Form 8-K as Exhibit 99.1. The Company undertakes no obligation to update, supplement or amend the materials attached hereto as Exhibit 99.1.

The information in Item 7.01 of this Form 8-K, including Exhibit 99.1 attached hereto, 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 set forth by specific reference in such a filing.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits

The following exhibit relating to Item 7.01 shall be deemed to be furnished, and not filed.

Exhibit
No.

99.1

Description

[Corporate slide presentation of Selecta Biosciences, Inc. dated January 2020](#)

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: January 13, 2020

By: /s/ Carsten Brunn, Ph.D.
Carsten Brunn, Ph.D.
President and Chief Executive Officer



Corporate Presentation

January 2020



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 program of the clinical development of SEL-212, the anticipated timing of the head-to-head trial comparing SEL-212 and Krystexxa® and related data readouts, whether the head-to-head trial with Krystexxa will demonstrate superiority, provide rapid results or de-risk the Phase 3 trials for SEL-212, the company's ability to enroll patients in its clinical trials, the potential of ImmTOR™ to reduce AAV vector immunogenicity and enable re-dosing of AAV gene therapy without neutralizing antibody formation or loss of therapy expression, the anticipated timing of preclinical toxicology studies in gene therapy and initiation of a clinical trial related thereto, the potential of SEL-212 to serve unmet needs in chronic refractory gout patients including sustained sUA reduction, reduced flares, once monthly dosing, the anticipated timing for advancing into Phase 3 if at all, the anticipated timing of the company's plans to meet with the U.S. Food and Drug Administration, the ability of the company's ImmTOR technology to induce immune tolerance and mitigate antigen-specific neutralizing antibody formation, the scalability of the company's manufacturing processes, the potential of ImmTOR to enable sustained therapeutic activity of biologic therapies, whether current evaluable SEL-212 patients will be predictive of future evaluable SEL-212 patients, whether maintained sUA level reduction correlates with low and/or negative drug-specific antibody titers, the potential of SEL-212 to significantly reduce tophi/heavy urate burden and/or rapidly eliminate tissue urate but whether SEL-212 has the ability to reduce gout flares frequency initially and over time during SEL-212 therapy, anticipated achievement of key milestones for the company's chronic refractory gout and gene therapy programs, the company's ability to execute on its strategic priorities, advance its ImmTOR platform, and grow its strategic partnerships, the potential of the company's partnership with Asklepios BioPharmaceutical, Inc. to address unmet medical need in patients with rare diseases, the amount of upfront and milestone payments that Selecta is eligible to receive pursuant to license agreement with Asklepios BioPharmaceutical, Inc., the company's expected cash position and runway, the billion dollar market potential of the chronic refractory gout market, the ability of the company's ImmTOR platform to unlock the full potential of biologic therapies, the potential of SEL-212 to enable sustained efficacy in chronic refractory gout patients and resolve their symptoms, the potential treatment applications for products utilizing the ImmTOR platform in areas such as enzyme therapy and gene therapy, the potential of AAV gene therapy to transform the future in a variety of inherited and acquired diseases, the potential of the ImmTOR platform generally, 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 ImmTOR 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, proprietary programs, licenses or contractual relationships, the ability of Asklepios BioPharmaceutical, Inc. to develop products under the license agreement to treat pompe disease, the company's 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, the possibility that the company's recurring losses from operations and negative cash flows from operations could raise substantial doubt regarding its ability to continue as a going concern, substantial fluctuation in the price of its common stock, the company's strategy may change, and the company may not be able to effectively implement its current strategic plan, the size of the company's workforce following the restructuring may not be sufficient, and the company may not be able to effectively attract or retain new employees, risks associated with the restructuring, such as employee claims and the risk that the actual financial and other impacts of the reduction could vary materially from the outcomes anticipated, and other important factors discussed in the "Risk Factors" section of the company's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission, SEC, on November 8, 2019, and in other filings that the company makes with the Securities and Exchange Commission. 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.



Selecta well-positioned for success

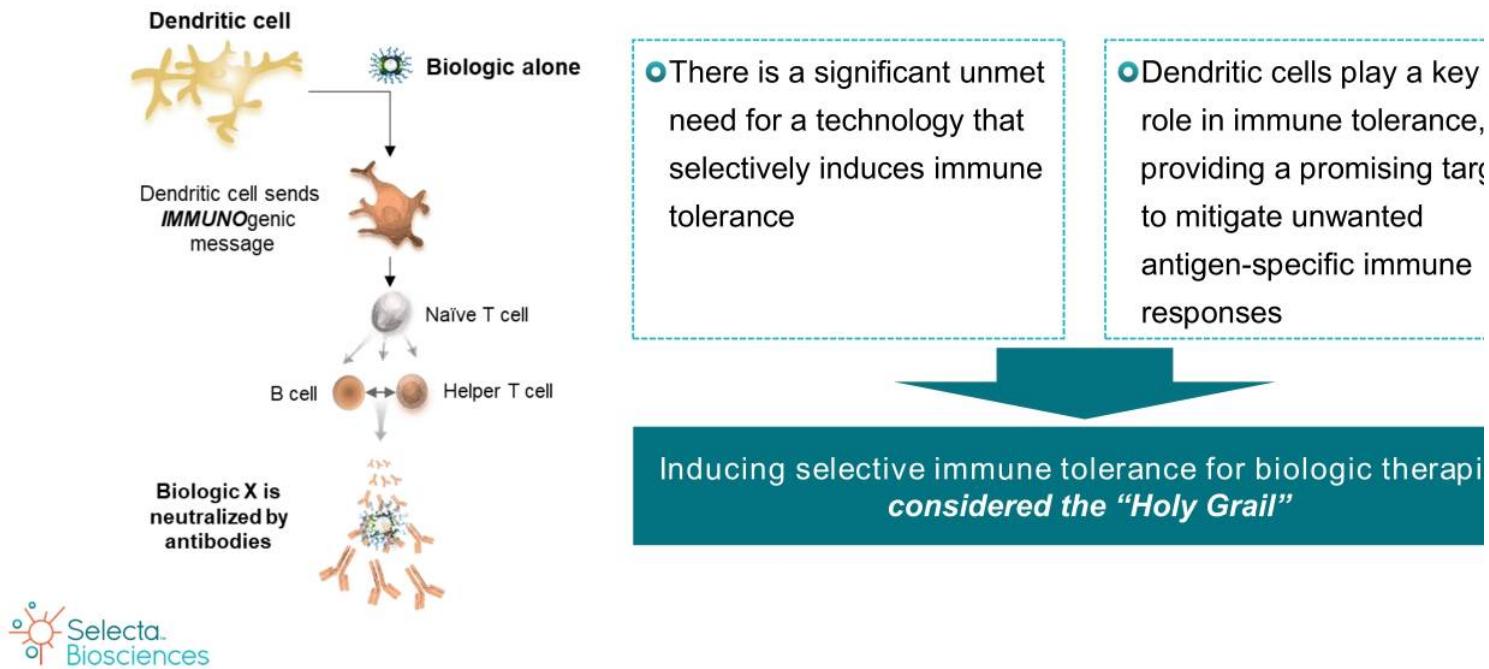
- Tolerogenic platform – **Selecta's immune tolerance platform**, ImmTOR, could unlock the full potential of biologic therapies by mitigating Neutralizing Antibody (Nab) formation
 - Pipeline focused on therapeutic biologics/enzymes and AAV gene therapies
- Lead program – SEL-212, addressing a \$1B+ chronic refractory gout market with high unmet need
 - COMPARE trial ongoing to evaluate efficacy and safety of SEL-212 vs. KRYSTEXXA ®
 - Announced completion of enrollment in December 2019, with 150 patients enrolled (75 patients per arm)
 - Top-line data, including statistical superiority, planned for mid 2020
 - FDA meeting in January 2020 regarding Phase 3 clinical development plan
- Pipeline – gene therapy program to enter the clinic in 2020
 - Preclinical results suggest high relevance to diseases which may require re-dosing gene therapies to maintain efficacy
 - Several collaborations & licensing agreements with leading gene therapy players
 - 50/50 collaboration agreement with AskBio
 - License agreement with AskBio for Pompe disease
 - License agreement with Spark for Hemophilia A
- **Appointed Carrie S. Cox as Chairman of the Company's Board of Directors in November 2019**
- Completed \$70 million private placement in December 2019



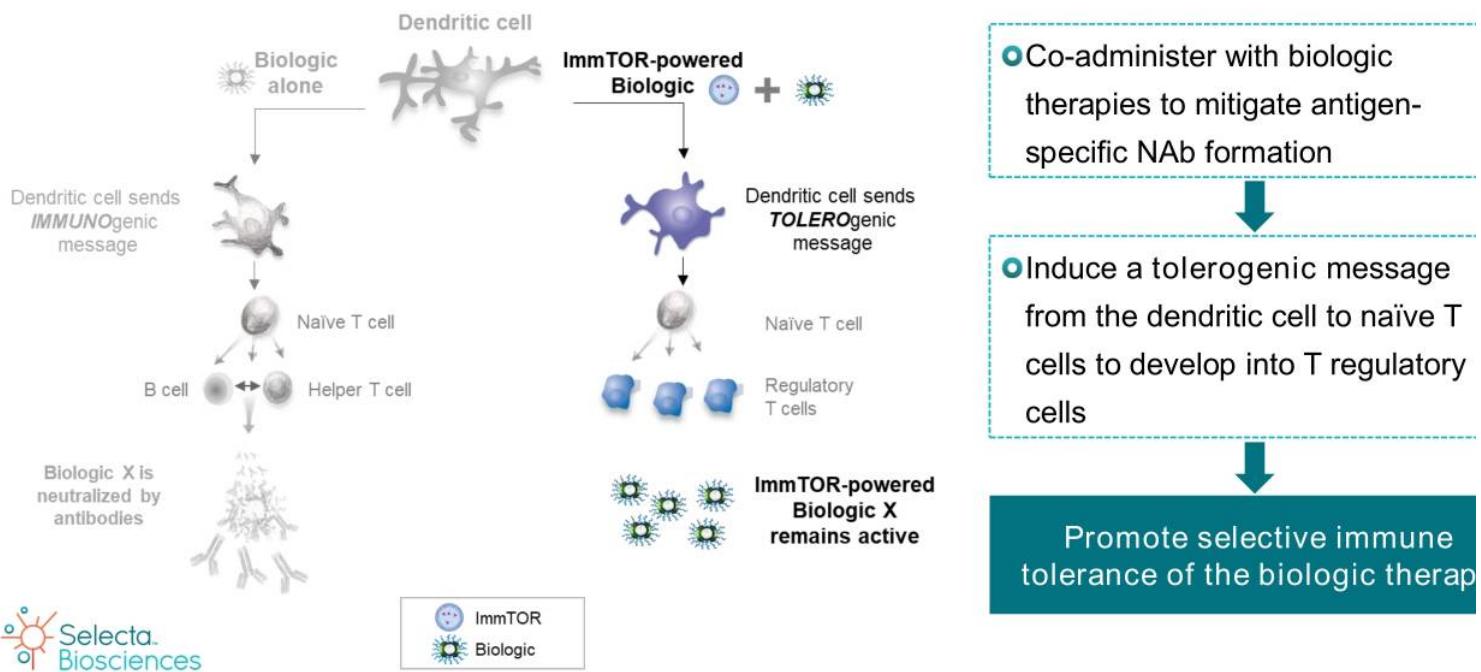


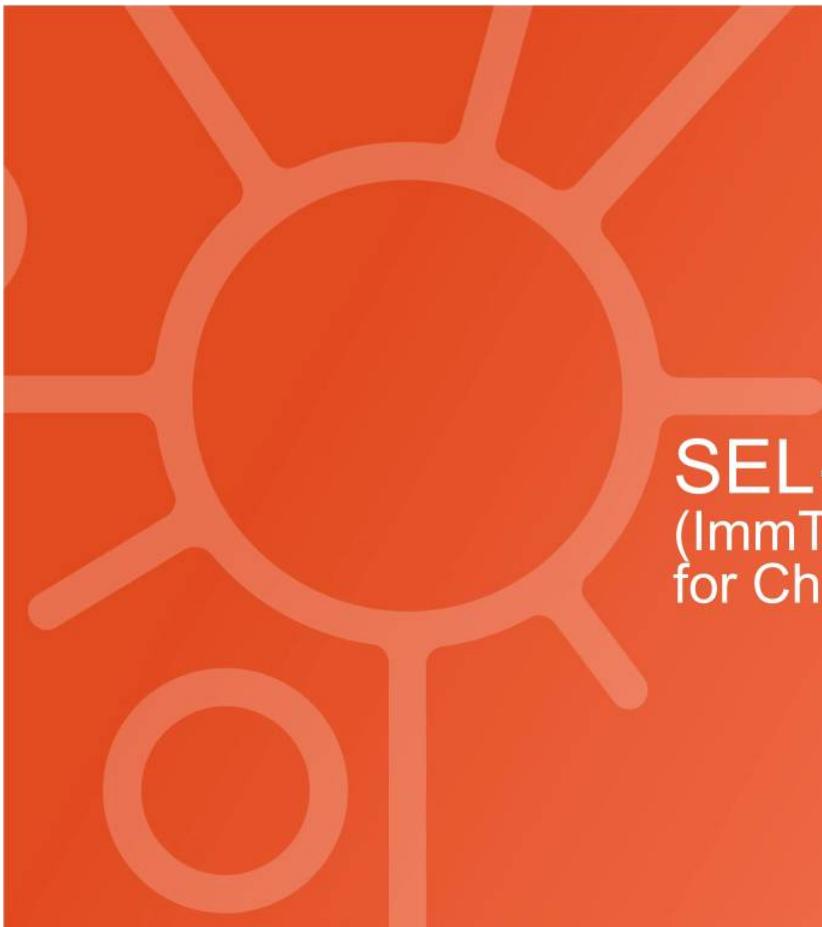
ImmTOR
Immune
Tolerance
Platform

Biologic therapies may trigger NAbs that negate their therapeutic benefit



ImmTOR has the potential ability to enable sustained therapeutic activity of biologic therapies and unlock their potential

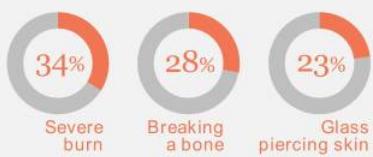




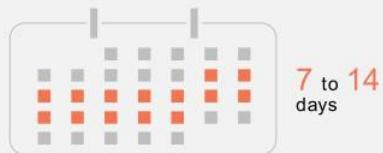
SEL-212
(ImmTOR+pegadricase)
for Chronic Refractory Gout

Chronic refractory gout is a severe form of inflammatory arthritis with a significant impact on patients

How chronic refractory gout patients describe their flare pain



How long chronic refractory gout flares can last



Annual lost productivity (pts<65)

~25 days

Estimated # of patients diagnosed in US with chronic refractory gout

~160,000

Chronic disease can lead to sequelae including:

- Bone erosions
- Tophi
- Chronic pain
- Joint deformities
- Loss of function
- Disability



Significant need for effective new therapies in chronic refractory gout

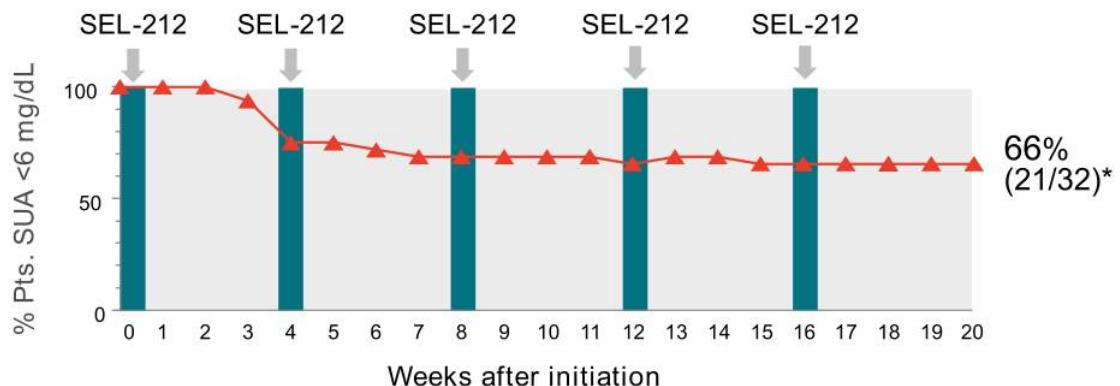
- Improved efficacy, allowing patients to complete full 6-month therapy cycle
 - Persistent reduction in Serum Uric Acid (SUA) levels
 - Elimination of tophi
- Monthly dosing
- Gout flare reduction
- **Avoidance of “off-label” and global immunosuppressive therapies**

SEL-212 has the potential to address these unmet needs and holds \$1B+ market potential



Sustained reduction of SUA with monthly dosing of SEL-212 was observed in Phase 2 dose ranging study

Phase 2 results after 20 weeks of once-monthly SEL-212 treatment:

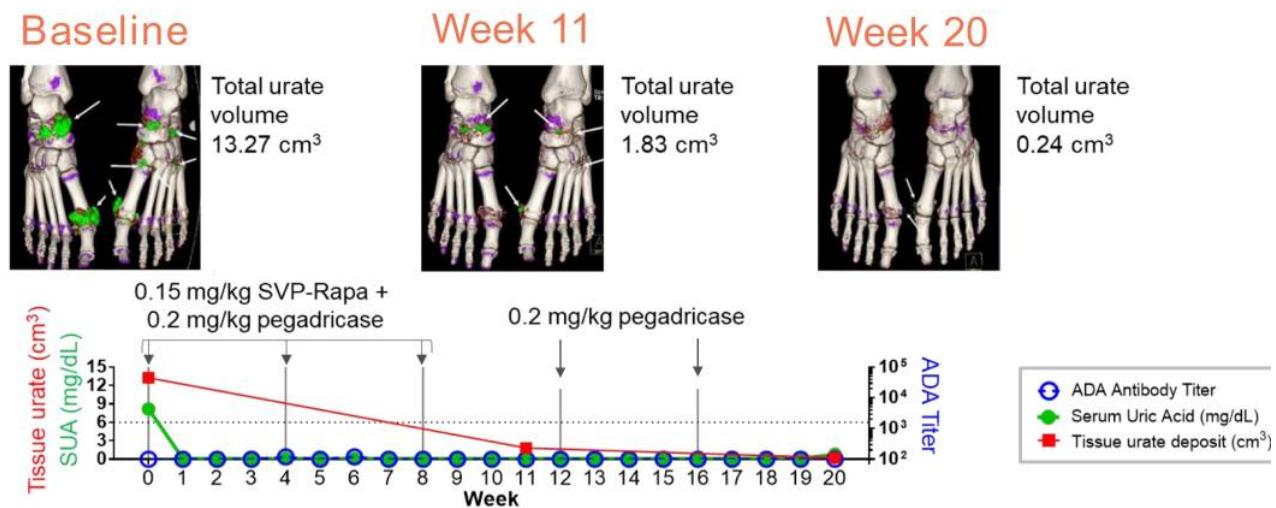


66% of evaluable patients completed the 20-week period with an SUA level <6 mg/dL



*Week 20 Evaluable patients = patients who received a full first dose and did not discontinue due to any measure other than drug effectiveness or drug related safety

Dual energy computed tomography (DECT) scan images show reduction of tissue urate burden

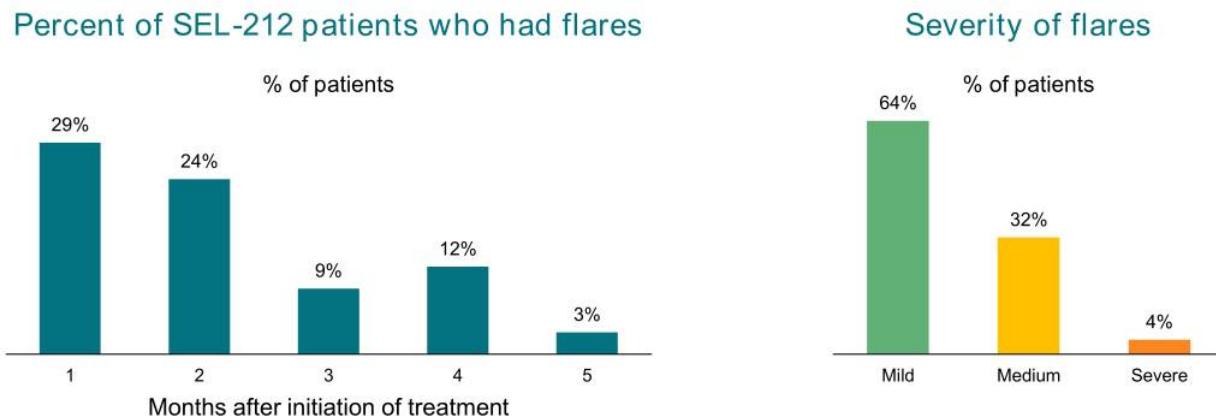


DECT uses a computer algorithm to produce color-coded images that render uric acid green, cortical bone blue, and trabecular bone purple



<https://selectabio.com/wp-content/uploads/2018/10/ACR-poster-DECT-2018-FINAL-.pdf>

Phase 2 data showed reduced frequency and severity of flares during SEL-212 therapy



- Majority of flares occurred in months 1 & 2, with no new patients who flared after month 2
- 96% of flares were mild or moderate in severity
- No gout flares were classified as SAEs nor resulted in study drug discontinuations



Unaudited data reported as of October 09, 2018 | Clinicaltrials.gov NCT02959918

SEL-212 has been generally well tolerated

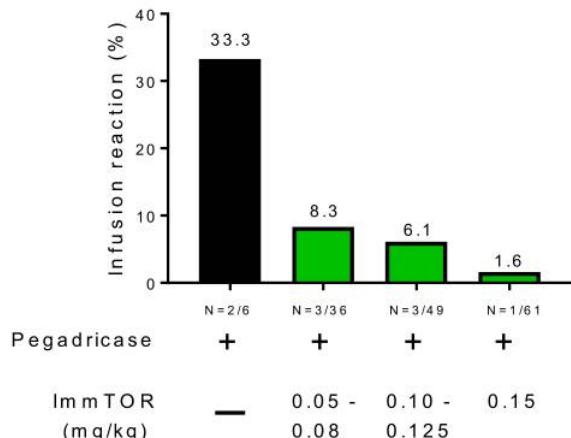
SEL-212 was generally well tolerated at clinically active doses following >470 administrations during the Phase 2 trial

23 SAEs reported in the Phase 2 trial

- 14 were reported not to be or unlikely to be related to study drug
- 9 were infusion reactions which decreased in incidence with increasing doses of ImmTOR

All SAEs were successfully treated without further issues

Serious infusion reactions (%)



Unaudited data reported as of February 25, 2019 | Clinicaltrials.gov NCT02959918

Comparing the efficacy of SEL-212 to KRYSTEXXA® in gout patients refractory to conventional therapy



SEL-212 (N=~75)

6 Infusions

Once Monthly

0.15 mg/kg ImmTOR + 0.2 mg/kg of pegadricase



~150 Refractory Chronic Gout Patients

Randomized

- Primary Endpoint: Statistical superiority for SUA level < 6mg/dL at 6 months
- Multiple Secondary Endpoints: Flares, QoL, HAQ, tophi resolution
- Safety Assessment

KRYSTEXXA® (N=~75)

12 Infusions

Every 2 weeks

8mg



Head-to-head trial is designed to provide objective, comparative results

- SUA level reduction, a robust primary endpoint for approval, can be seen soon after dosing
 - Easy to measure
 - Maintenance strongly correlated with low/negative drug-specific antibody titers
- Adult patient population with two active arms
- Opportunity to test revised stopping rules and de-risk Phase 3 program





ImmTOR in Gene Therapy

ImmTOR is a gene therapy company that is developing a new class of treatments for genetic diseases. Our lead product, ImmTOR-101, is a gene therapy for Leber congenital amaurosis (LCA), a rare genetic disorder that causes blindness. ImmTOR-101 uses a viral vector to deliver a functional copy of the LCA gene to the retina, restoring sight in animal models. We are currently conducting a Phase 1/2 clinical trial in patients with LCA. Our mission is to bring hope and sight to those affected by genetic diseases.

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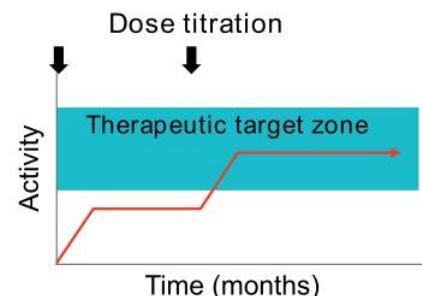
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The ability to re-dose AAV gene therapy is a key goal to unlocking the full therapeutic potential

Dose titration

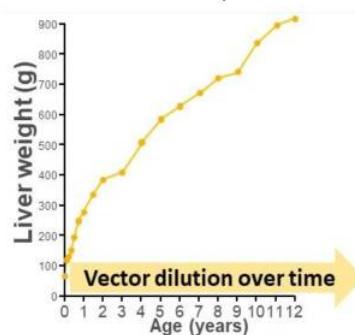
- Potential to increase proportion of patients who achieve therapeutic benefit without risk of overdosing
- Goal of improving enrollment in clinical trials



Multiple vector administrations

- Provide potential to target systemic diseases in which multiple vector administrations are likely needed to achieve full therapeutic efficacy

Rescue of expression

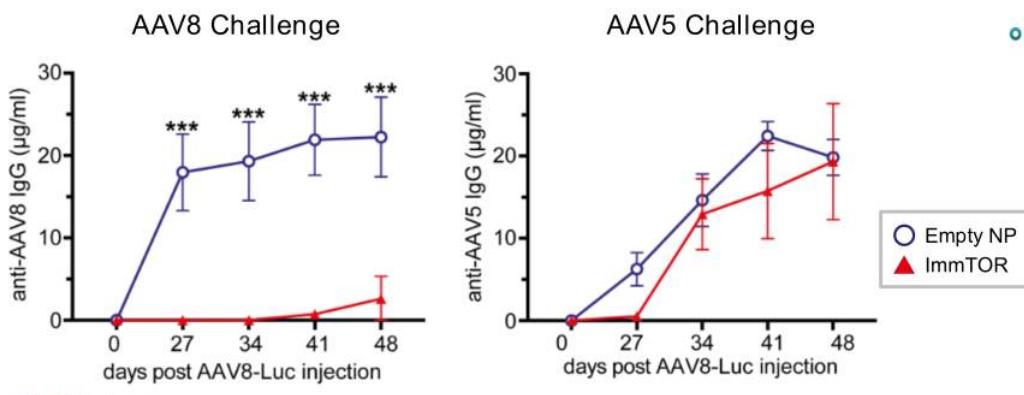
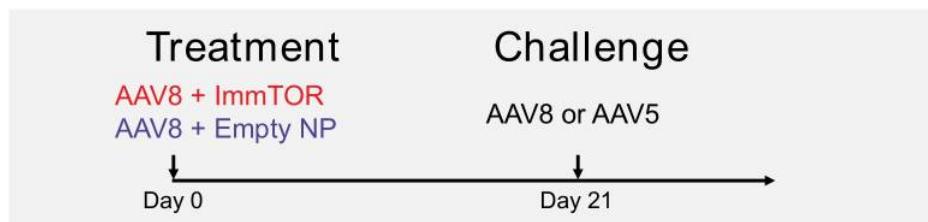


Rescue of expression

- Allows for potential rescue in patients with organ damage
- Potential to restore therapeutic expression in pediatric patients as they grow



In preclinical studies, ImmTOR induced antigen-specific immune tolerance

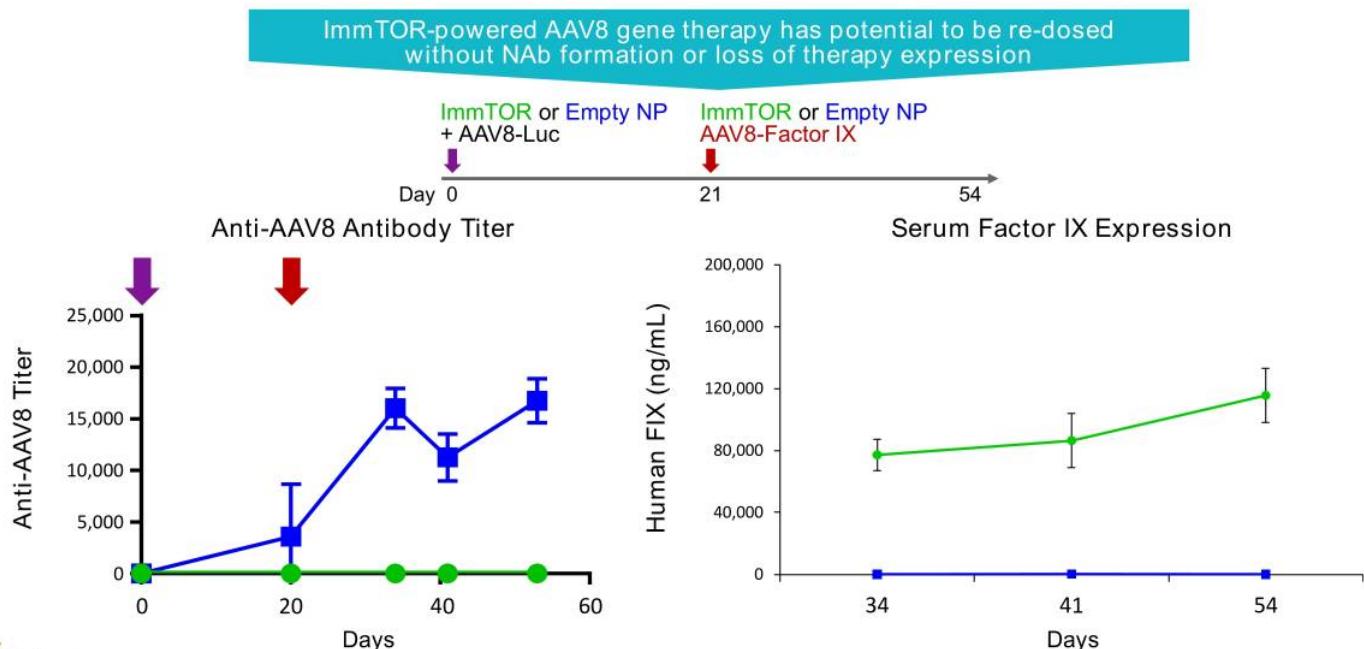


ImmTOR provided AAV-specific immune tolerance

- NAb did not develop in mice treated with ImmTOR+AAV vector
- Mice treated with empty nanoparticle (NP) + AAV vector developed significant IgG respo
- When challenged with a different AAV vecto both arms mounted an immune response, suggesting antigen-specific immune toleran rather than broad immunosuppression was achieved

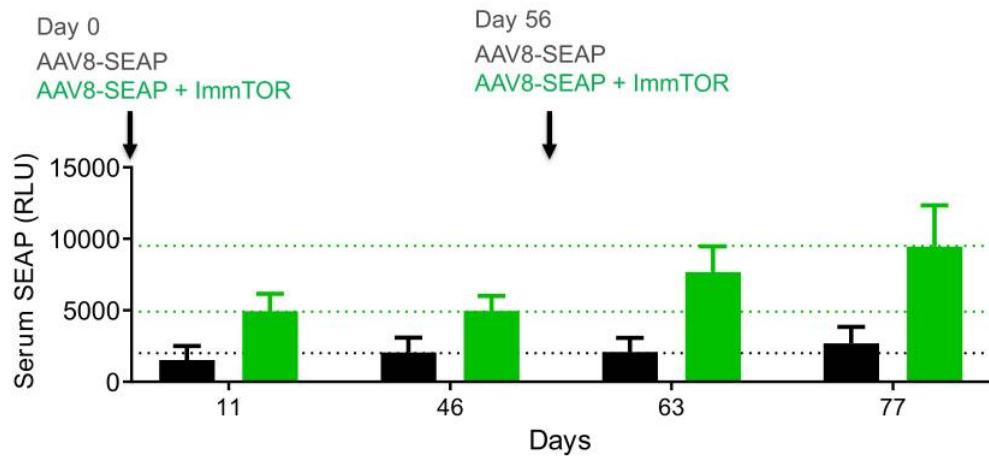
Meliani et al., Nature Communications, In Oct. 2018

Preclinical data indicates potential of ImmTOR-powered re-dosing in gene therapy



Meliani et al., Nature Communications, In Oct. 2018

First dose benefit of ImmTOR on liver-directed transgene expression



First dose benefit is immediate and independent of effect on adaptive immune response
Cumulative benefit of first dose and repeat dose provides up to 4-fold increase in transgene expression



Ilyinskii et al., Tolerogenic ImmTOR™ nanoparticles enhance vector transduction, mRNA synthesis and transgene expression after initial and repeated administrations of AAV-based gene therapy vectors, Nov. 2019

Opportunities for clinical POC in gene therapy

Collaboration

- AskBio

- Development pipeline and human trials planned for repeat dosing of AAV-based gene therapies to address the unmet medical need for patients with rare and orphan genetic diseases
- Lead indication is MMA (Methylmalonic Acidemia)
- Expect to enter the clinic under this collaboration in 2020



Proprietary Program

- OTC (Ornithine Transcarbamylase deficiency)

License Agreements

- AskBio

- Licensed ImmTOR for pompe disease in December 2019; Selecta eligible to receive up to \$240 million in milestone payments

- Spark Therapeutics

- Licensed ImmTOR for hemophi



Financial Overview and Projected Milestones

As we continue to navigate the challenges of the current market environment, we remain committed to providing you with regular updates on our financial performance and future projections. This document will cover our recent financial results, key performance indicators, and our projected milestones for the remainder of the year.

We are pleased to report that our financial performance has exceeded expectations in the first half of the year. Our revenue growth has been strong, driven by increased demand for our products and services. We have also made significant progress in cost reduction initiatives, which have contributed to improved profitability.

Looking ahead, we are optimistic about the prospects for the second half of the year. Our team is focused on executing on our strategic plan and continuing to invest in our business. We will be providing more detailed information on our financial projections and operational plans in our next update.

Thank you for your continued support and interest in our company. We value your feedback and appreciate your partnership. If you have any questions or concerns, please do not hesitate to reach out to us. We are here to help and support you every step of the way.

Best regards,
[Your Name]
[Your Title]
[Your Company]

Financial snapshot

(In thousands)

For the Quarter Ended
September 30, 2019

Research & Development Expenses	\$8,104
General & Administrative Expenses	\$3,690
Total Operating Expenses	\$11,794
Net Loss	\$(11,994)

As of

September 30, 2019

(In thousands, except shares outstanding)

Cash, Cash Equivalents, Marketable Securities, Restricted Cash
\$35,892

Shares Outstanding
48,196,387

Completed \$70 million private placement in December 2019



Projected upcoming milestones

- Guidance from FDA meeting regarding Phase 3 clinical development plan (Q1 2020)
- Report top-line data from SEL-212 vs. KRYSTEXXA® COMPARE trial in chronic refractory gout (mid 2020)
- Planning to commence clinical trial of ImmTOR in gene therapy (2020)





Relentlessly committed to overcoming
IMMUNOGENICITY with
our pioneering ImmTOR immune
tolerance platform to transform the lives
of patients and their families



