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) December 23, 2019

CERECOR INC.

(Exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction of incorporation)

001-37590 (Commission File Number) 45-0705648

(IRS Employer Identification No.)

540 Gaither Road, Suite 400, Rockville, Maryland 20850 (Address of principal executive offices) (Zip Code)

Registrant's Telephone Number, Including Area Code: (410) 522-8707

Check the appropriate box below if the Form 8-K filing	g is intended to simultaneously	satisfy the filing obligation of	f 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	Trading Symbol(s)	Name of each exchange on which registered
Common Stock, \$0.001 Par Value	CERC	Nasdaq Capital Market

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 8.01. Other Events.

On December 23, 2019, Cerecor Inc. ("Cerecor") posted an updated Investor Presentation regarding the business of the combined company after completion of the previously announced proposed merger with Aevi Genomic Medicine, Inc. ("Aevi") to its website at www.cerecor.com. A copy of the investor presentation is attached hereto as Exhibit 99.1.

Additional Information about the Merger and Where to Find It

This document does not constitute an offer to sell or the solicitation of an offer to buy any securities of Aevi or Cerecor or the solicitation of any vote or approval. In connection with the proposed Merger, on December 20, 2019, Cerecor filed with the SEC a Registration Statement on Form S-4 containing a proxy statement/prospectus. The proxy statement/prospectus contains important information about Aevi, Cerecor, the Merger and related matters. Aevi will mail or otherwise deliver the proxy statement/prospectus to its stockholders when it becomes available. Investors and security holders of Aevi and Cerecor are urged to read carefully the proxy statement/prospectus relating to the Merger (including any amendments or supplements thereto) in its entirety, because it contains important information about the proposed Merger.

Investors and security holders of Aevi and Cerecor will be able to obtain free copies of the proxy statement/prospectus for the proposed Merger (when it is available) and other documents filed with the SEC by Aevi and Cerecor through the website maintained by the SEC at www.sec.gov. In addition, investors and security holders of Aevi will be able to obtain free copies of the proxy statement/prospectus for the proposed Merger (when it is available) by contacting Aevi, Attn: Mike McInaw, michael.mcinaw@aevigenomics.com. Investors and security holders of Cerecor will be able to obtain free copies of the proxy statement/prospectus for the merger by contacting Cerecor, Attn: James Harrell, jharrell@cerecor.com.

Participants in the Merger

Aevi, Cerecor and certain of their respective directors and executive officers may be deemed to be participants in the solicitation of proxies from the stockholders of Aevi in respect of the transactions contemplated by the Merger Agreement between Aevi and Cerecor. Information regarding Aevi's directors and executive officers is contained in Aevi's Annual Report on Form 10-K for the fiscal year ended December 31, 2018, which was filed with the SEC on March 29, 2019, and is available in the proxy statement/prospectus that was filed by Cerecor with the SEC in connection with the proposed Merger. Information regarding Cerecor's directors and executive officers is contained in Cerecor's Annual Report on Form 10-K for the fiscal year ended December 31, 2018, which was filed with the SEC on March 18, 2019, and in the proxy statement/prospectus that was filed by Cerecor with the SEC in connection with the proposed Merger.

Cautionary Statement Regarding Forward-Looking Statements

This document contains forward-looking statements within the meaning of Section 27A of the Securities Act, Section 21E of the Exchange Act and as that term is defined in the Private Securities Litigation Reform Act of 1995, including, but not limited to, Aevi's and Cerecor's expectations or predictions of future financial or business performance or conditions. Forward-looking statements are sometimes identified by their use of the terms and phrases such as "estimate," "project," "intend," "forecast," "anticipate," "plan," "planning, "expect," "believe," "will," "will likely," "should," "could," "would," "may" or the negative of such terms and other comparable terminology. These forward-looking statements are subject to numerous assumptions, risks and uncertainties, which change over time, are difficult to predict and are generally beyond the control of either company. Actual results may differ materially from current projections.

Important factors that may cause actual results to differ materially from the results discussed in the forward-looking statements or historical experience include risks and uncertainties, including the timing and completion of the Merger, the parties' ability to satisfy the closing conditions of the Merger Agreement, the failure by Aevi or Cerecor to secure and maintain relationships with collaborators and/or investors; risks relating to clinical trials; risks relating to the commercialization, if any, of Aevi's or Cerecor's proposed product candidates (such as

marketing, regulatory, product liability, supply, competition, and other risks); dependence on the efforts of third parties; dependence on intellectual property; and risks that Aevi or Cerecor may lack the financial resources and access to capital to fund proposed operations. Further information on the factors and risks that could affect Aevi's and Cerecor's respective businesses, financial conditions and results of operations are contained in Aevi's and Cerecor's filings with the SEC, which are available at www.sec.gov. The forward-looking statements represent Aevi's and Cerecor's estimate as of the date hereof only, and Aevi and Cerecor specifically disclaim any duty or obligation to update forward-looking statements.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits.

Exhibit No.	Description
99.1	Investor Presentation
	2

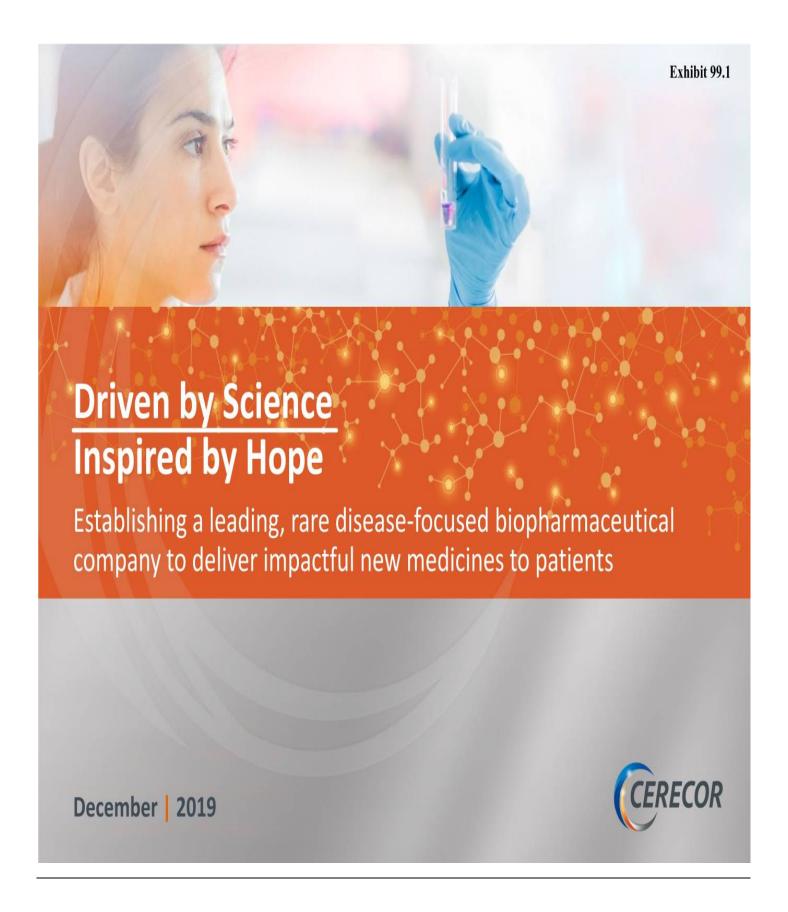
SIGNATURE

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.

CERECOR INC.

Date: December 23, 2019 /s/ Joseph M. Miller

Joseph M. Miller Chief Financial Officer



Forward-Looking Statements

This presentation may include forward-looking statements made pursuant to the Private Securities Litigation Reform Act of 1995. Forward-looking statements are statements that are not historical facts. Such forward-looking statements are subject to significant risks and uncertainties that are subject to change based on various factors (many of which are beyond Cerecor, Inc. ('Cerecor") or Aevi Genomic Medicine, Inc.'s ("Aevi") control, which could cause actual results to differ from the forward-looking statements. Such statements may include, without limitation, statements with respect to Cerecor's plans, objectives, projections, expectations and intentions and other statements identified by words such as "projects," "may," "will," "could," "would," "should," "continue," "seeks," "aims," "predicts," "believes," "expects," "anticipates," "estimates," "intends," "plans," "potential," or similar expressions (including their use in the negative), or by discussions of future matters such as: Aevi and Cerecor's respective 2019 outlook; the development of product candidates; timing and success of trial results and regulatory reviews; potential attributes and benefits of product candidates; the expansion of Cerecor's drug portfolio; the benefits of the proposed merger with Aevi described herein; and other statements that are not historical.

These statements are based upon the current beliefs and expectations but are subject to significant risks and uncertainties, including: drug development costs, timing and other risks; the companies' cash position and the need to raise additional capital; risks associated with dispositions and acquisitions, such as the pediatric asset sale and the proposed merger with Aevi, including their consumption of company resources to complete, risks they might not close, and the need to quickly and successfully reorganize operations and integrate acquired assets and personnel if they do; reliance on and the need to attract, integrate and retain key personnel; and those other risks detailed in Cerecor's and Aevi's respective filings with the Securities and Exchange Commission. Actual results may differ from those set forth in the forward-looking statements. Except as required by applicable law, Cerecor and Aevi expressly disclaim any obligations or undertaking to release publicly any updates or revisions to any forward-looking statements contained herein to reflect any change in Cerecor's or Aevi's expectations with respect thereto or any change in events, conditions or circumstances on which any statement is based.



Additional Information Concerning the Merger

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Non-Solicitation

This presentation shall not constitute an offer to sell or the solicitation of an offer to sell or the solicitation of an offer to buy any securities, nor shall there be any sale of securities in any jurisdiction in which such offer, solicitation or sale would be unlawful prior to registration or qualification under the securities laws of any such jurisdiction. No offer of securities shall be made except by means of a prospectus meeting the requirements of Section 10 of the Securities Act, as amended.



Cerecor Continues Transformation

Building a rare disease biotech company committed to developing innovative medicines in areas of high unmet need



Advancing CERC-800s to NDA filings and FDA approvals over the next 18 to 24 months; potential PRVs could provide non-dilutive capital for R&D investment



Emphasizing R&D with recent sale of pediatric portfolio, narrowing focus and improving the balance sheet; additional optionality with Millipred®



Strategically positioning the company as a leader in orphan disease drug development to deliver high impact medicines to underserved patient populations



Identified AEVI Genomic Medicine, Inc. (NASDAQ: GNMX) as a potential target for M&A due to complimentary fit of rare disease pipeline assets and management personnel



Advancing CNS pipeline to value inflection for strategic optionality as partnered or outlicensed assets



Cerecor (CERC) & Aevi (GNMX) Have Entered Into a Merger Agreement to Merge

Propose to form a leading biopharmaceutical company focused on pediatric orphan diseases

6

Rare disease programs establish robust pipeline with addition of novel, first-in-class medicines

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PRV-eligible, fast-to-market programs with anticipated POC data in 2020, first NDA approval targeted for 2021



2

Expansion of leadership team to include CEO Michael Cola and CMO Garry Neil



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Leading biopharmaceutical company with a world-class orphan disease pipeline



Combined Company Well-Positioned to Execute on Delivering Innovative New Medicines to Patients



CERC-800s

- Substrate replacement therapies for CDGs
- 2 pivotal-ready programs with FTD
- All 3 programs received RPDD and ODD
- First NDA filing anticipated in 2021
- Estimated collective TAM of >\$100M



- Anti-IL-18 mAb for auto-inflammatory diseases
- Phase 2-ready
- Strong biological rationale evidenced by serum biomarkers
- First NDA filing anticipated in 2022
- Estimated \$400 500M PYS in Top 7 WW markets



AEVI-006

- mTORC1/2 inhibitor for Lymphatic Malformations
- Phase 2-ready
- Existing clinical proof-ofconcept with off-label use of sirolimus
- First NDA filing anticipated in 2023
- Estimated \$450 900M PYS in US market

Aevi's R&D efforts include working with the Center for Applied Genomics (CAG) at Children's Hospital of Philadelphia (CHOP)

CDG: Congenital Disorders of Glycosylation; RPDD: Rare Pediatric Disease Designation; ODD: Orphan Drug Designation FTD: Fast Track Designation; TAM: Target Addressable Market; PYS: Peak Year Sales



Emerging Clinical-Stage, Rare Disease Pipeline

Programs in
Orphan Diseases
with Significant
Unmet Needs

- Building a rare disease biotech company focused on developing innovative medicines
- Opportunity for multiple novel product launches through 2023

				Development Stage		
	Program	Mechanism of Action	Lead Indication	Preclinical	Phase 1	Upcoming Milestone
	CERC-801*	D-Galactose replacement	PGM1-CDG	Pivotal Study Re	eady	. Initial data
CERECOR	CERC-802*	D-Mannose replacement	MPI-CDG	Pivotal Study Re	eady	from CDG-FIRST
	CERC-803*	L-Fucose replacement	SLC35C1-CDG	IND-Enabling		1H20
	AEVI-007	Anti-IL-18 mAb	Auto-inflammatory diseases (AOSD, MM)	Phase 1/2 Read	у	Initial POC 4Q20/1Q21
genomic medicine w	AEVI-006**	mTORC1/2 inhibitor	Complex Lymphatic Malformations	Phase 1/2 Read	у	Initial POC 4Q20/1Q21
	AEVI-002	Anti-LIGHT mAb	Pediatric Onset Crohn's Disease	Phase 1/2 Stud	y Ongoing	Initial POC 1H20

^{*}Rare Pediatric Disease Designation Granted



^{7 **}Rare Pediatric Disease Designation Eligible

Recent BD&L Improves Financials, Emphasizes Pipeline

Sale of commercial assets provides cash and removes debt overhang, while novel asset acquisitions further strengthen pipeline and focus on R&D

CERC BD&L Highlights

Sale of pediatric commercial portfolio to Aytu Bioscience (NASDAQ:AYTU)

- Overall deal valued in excess of \$43M.
- \$17M upfront composed of \$4.5M in cash
 \$12.5M of AYTU preferred stock
- Assumption of Cerecor's outstanding payment obligations payable to Deerfield and other liabilities in excess of \$15M
- Estimated annual expense reduction of \$7 to \$9M associated with commercial sales organization transfer to AYTU

GNMX BD&L Highlights

In-licensed two Phase 2-ready programs from large pharma

- \$500K upfront for WW license to AEVI-006, mTORC1/2 inhibitor for Lymphatic Malformations
- Recently exercised option with AstraZeneca for the WW license to AEVI-007; anti-IL-18 mAb for auto-inflammatory diseases
- Strong biological rationale with wellcharacterized safety & pharmacology
- Existing clinical proof-of-concept leveraging genetics-based and precision medicine

Right-sized balance sheet and added high probability-of-success, mid-stage clinical programs targeting unmet needs in orphan diseases



Management Team

Extensive experience in orphan drug development & commercialization

Michael F. Cola Chief Executive Officer

25+ Years Industry Experience

- President of Specialty Pharmaceuticals, Shire plc
- EVP of Global Therapeutic Business Units and Portfolio Management, Shire plc
- President of the Life Sciences Group, Safequard Scientifics, Inc.
- Senior positions in Product Development and Commercialization, AstraZeneca

Joseph Miller Chief Financial Officer

20+ Years Industry Experience

- VP of Finance, Sucampo Pharmaceuticals
- Senior Director of Accounting, Qiagen
- Chief Financial Officer, Eppendorf 5Prime
- Certified Public Accountant

Dr. Pericles Calias *Chief Scientific Officer*

20+ Years Industry Experience

- VP Global CMC & Development, Sucampo Pharmaceuticals
- CSO, Pharming Group
- Senior Director Rare CNS Diseases and Device Lead, Shire plc
- Senior Director Drug Delivery and Chemistry, Eyetech Pharmaceuticals

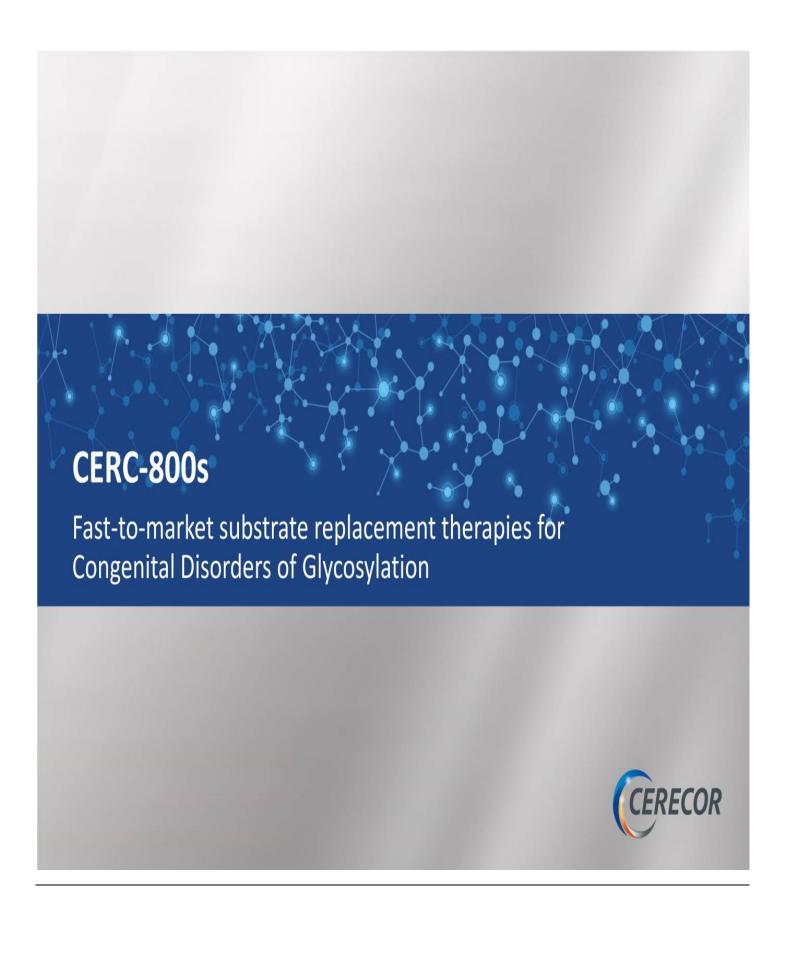
Dr. Garry A. Neil *Chief Medical Officer*

25+ Years Industry Experience

- Corporate VP of Science & Technology, Johnson & Johnson
- Group President, Johnson & Johnson
 Pharmaceutical Research and Development
- VP of R&D, Merck KGaA/EMD Pharmaceuticals
- VP of Clinical Research, AstraZeneca







Congenital Disorders of Glycosylation (CDG): Life-Threatening, Ultra-Orphan, Inborn Errors of Metabolism (IEMs)

Autosomal recessive diseases that result in impaired glycoprotein production and function, but are treatable with substrate replacement therapy



Glycosylation is essential for **protein structure & function**, particularly for circulating proteins and enzymes such as hormones and coagulation factors



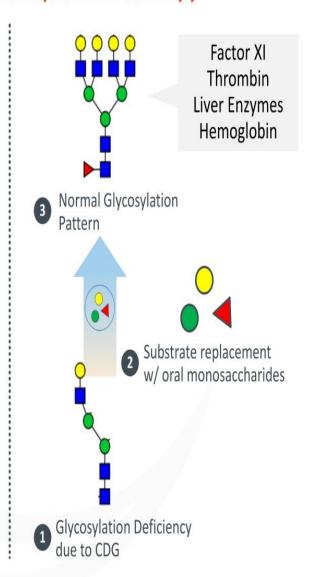
Due to a mutation in one of more than 100 genes (including *PGM1*, *MPI*, and *SLC35C1*), CDG patients lack the ability to synthesize functioning glycoproteins



Life-threatening multi-system diseases: developmental delay,
hypotonia, neurologic abnormalities,
hepatic disease, and coagulopathy



Substrate replacement via oral monosaccharides results in clinical benefit in many patients



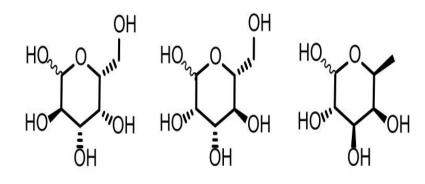


CERC-800s

Substrate replacement therapies for CDGs

Oral, small molecule, naturally-occurring monosaccharides used as standard-of-care for CDGs

- · Rapid onset of action
- Safe and well-tolerated
- Documented clinical experience of efficacy
- Symptoms return upon treatment withdrawal



D-Galactose

D-Mannose

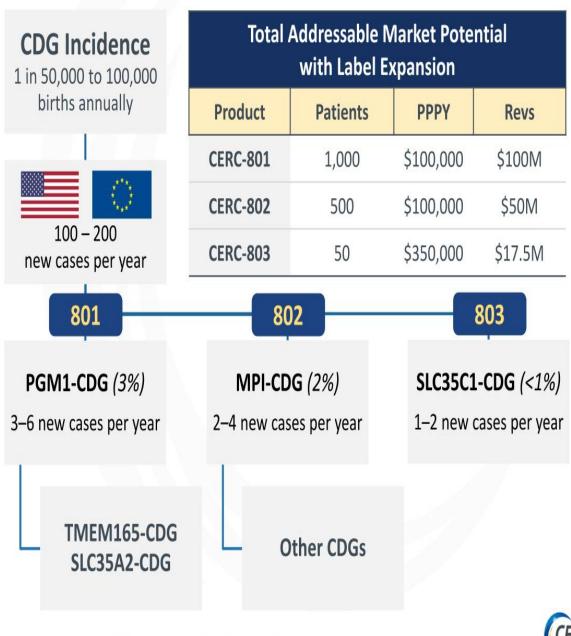
◀ L-Fucose

Eligibility	CERC-801	CERC-802	CERC-803
Accelerated Pathway	√	√	√
NCE 5-yrs Exclusivity	√	√	\
FDA ODD 7-yrs Exclusivity	√	√	√
EMA ODD 10-yrs Exclusivity	√	\	√
Priority Review Voucher	√	√	√



CDG Addressable Markets & Commercial Opportunity

Opportunity for indication expansion to build a >\$100mm franchise





CDG FIRST Trial: Retrospective Study to Accelerate Development & Approval of CERC-800s; Targeted NDA Filing(s) Starting in 2021

Multi-center, international, non-interventional, retrospective study of CDG patients who have been treated with unapproved sugar supplements



Retrospective Chart Reviews & Registry Data Have Been Successfully Used to Minimize or Obviate Prospective Clinical Studies

Data to be collected: Natural History, Safety & Treatment Outcomes







CDG Connect Patient Insights Network (PIN) https://connect.invitae.com/org/cdg



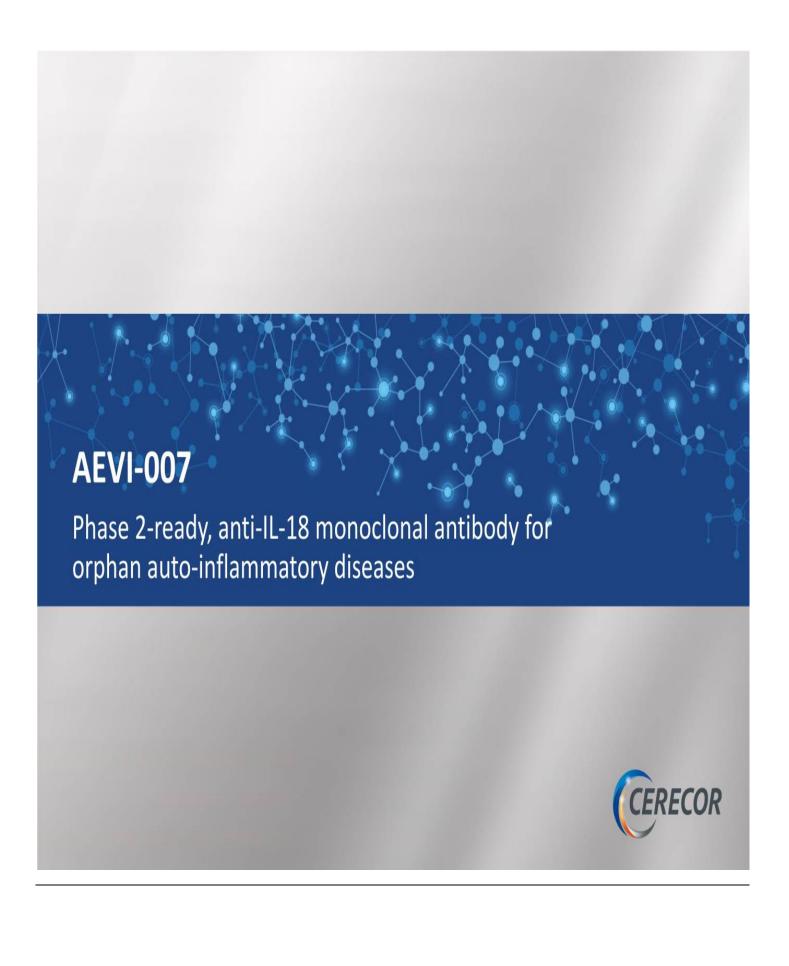
Key Upcoming CERC-800s Milestones

Multiple value-generating inflection points over the next 12 to 18 months

- FDA meetings to define pathway to NDA submission and approval
 - Briefing package expected to include data collected under CDG FIRST
 - Determine pivotal study requirement and/or design

	Program	Target Indication	Upcoming Milestone
athway	CERC-801 (D-Galactose)	PGM1-CDG	 Initial data from CDG FIRST 1H 2020 BTD Request 2Q/3Q 2020 NDA Submission 1H 2021
Accelerated NDA Pathway	CERC-802 (D-Mannose)		 Initial data from CDG FIRST 1H 2020 BTD Request 2Q/3Q 2020 NDA Submission 2H 2021
Accelerat	CERC-803 (L-Fucose)	SLC35C1-CDG	 Initial data from CDG FIRST 1H 2020 IND Filing 1H 2020 BTD Request 2Q/3Q 2020 NDA Submission 1H 2022

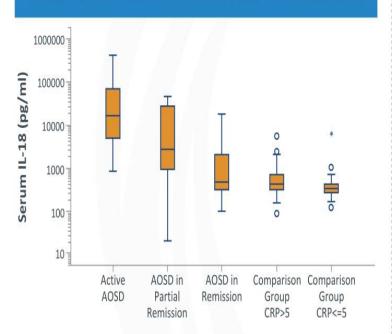




IL-18-Mediated Autoimmune Disorders

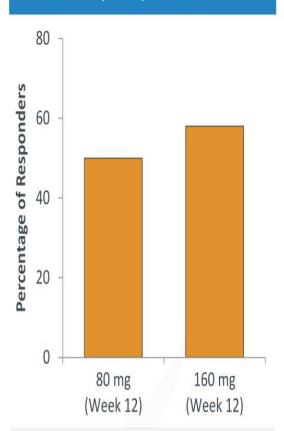
IL-18 is a pro-inflammatory cytokine produced by macrophages, stimulating production/release of IFNy and regulating many immune processes

Elevated Serum IL-18 Levels in AOSD Patients



- IL-18 is a key driver of several orphan auto-inflammatory diseases
 - Adult Onset Still's Disease (AOSD)
 - Multiple Myeloma (MM)
- Serum IL-18 correlates with disease severity
 - AB2 Bio clinical proof-of-concept in AOSD (n = 23) using IL-18bp ($T_{1/2}$ = 40 h); 4/4 patients with undetectable serum IL-18 had a clinical response

IL-18bp Response Rates



Patients received subcutaneous administration of 80 or 160 mg three times per week

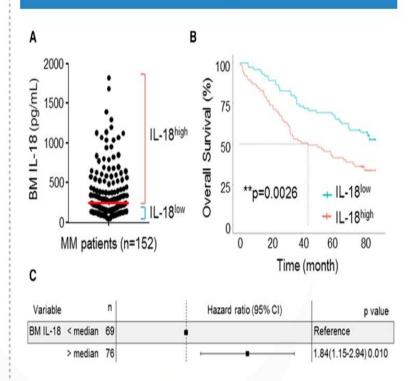


Elevated IL-18 is Associated with Poor Prognosis in Myeloma

IL-18 blockade has the potential to significantly prolong survival in multiple myeloma patients with elevated IL-18 levels

- Patients with low IL-18 have significantly longer median survival (>84 mos vs. 42 mos) than patients with high IL-18 (p = 0.0026, HR = 1.84)
- No association between bone marrow IL-18 levels and classical myeloma risk factors; IL-18 is an independent determinant of poor survival
- Reducing IL-18 levels prolongs survival in rodent models
- IL-18 could be a useful biomarker to select patients, determine optimal dose

IL-18 levels are elevated in many MM patients and correlate with poor survival



(A) Bone marrow IL-18 levels, (B) Kaplan-Meier survival curve of IL-18 high and IL-18 low patients, (C) Hazard ratio of survival based on bone marrow IL-18 levels



AEVI-007: Anti-IL-18 mAb Developed by Medimmune

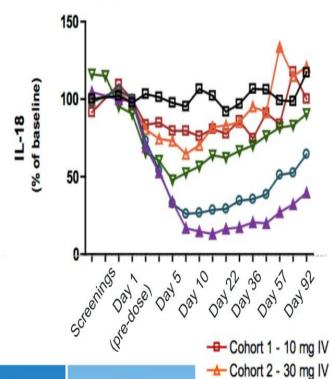
A high affinity, neutralizing monoclonal antibody against IL-18

Potent and durable IL-18 inhibition

- Evaluated in Phase 1 SAD for COPD
- IV doses of 10, 30, 100, 300 or 1000 mg
- Safe and well-tolerated (n = 31)

Phase 2-ready asset

- 13-week monkey tox completed
- Frozen, unformulated bulk material available to support clinical proof-ofconcept in patients and nonclinical 6-month chronic tox studies



	AOSD	ММ
US prevalence	3,500 – 7,000	~124,000
Estimated % of patients treated	20 – 30% of market	10 – 12% of market
PPPY	\$250,000 - 300,000	\$100,000 - 125,000
Estimated PYS	\$400 – 500M	\$1 – 1.2B*



→ Cohort 5 - 1000 mg IV

- Placebo

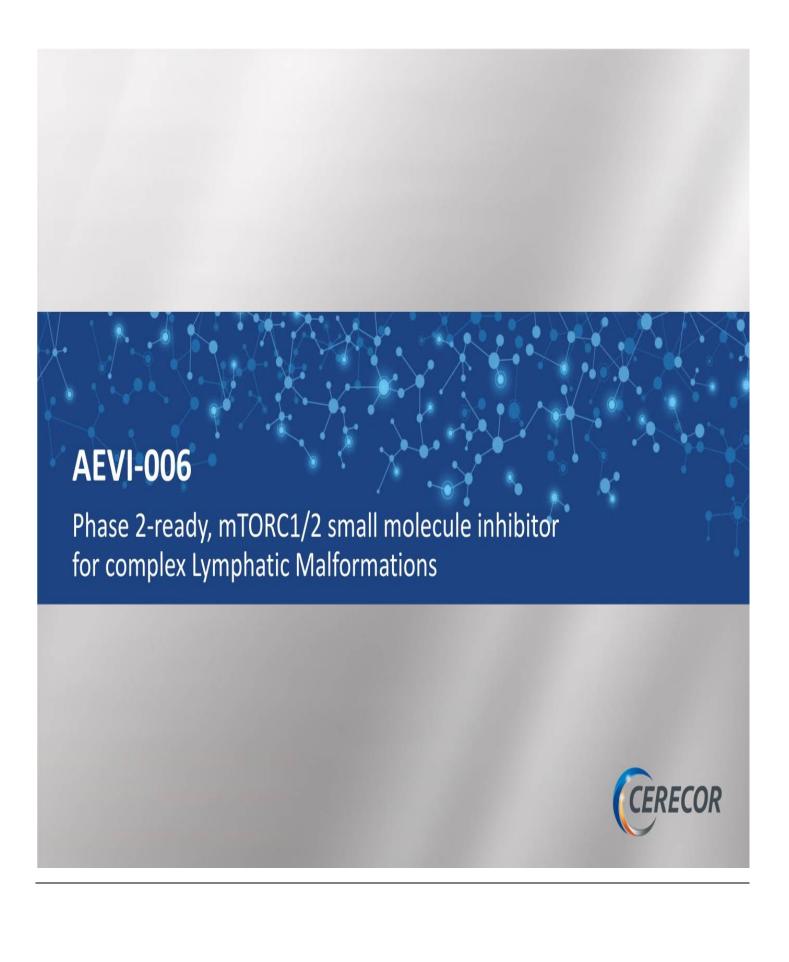
AEVI-007 Development Plan

Prioritize lower-risk, less capital intensive development strategy

- Both programs are de-risked by preclinical and clinical proof-of-concept
- Precision medicine approach using disease biomarkers is highly efficient and further de-risks clinical programs
- Opportunity to efficiently demonstrate POC in target patient population(s)

Open-Label NDA submission **Signal Finding Studies** in 2022 Drug (2H 2020 / 1H 2021) GO / NO GO Formulation, (N=12)Requalification & **Single Pivotal Accelerated** Phase 3-enabling Study **Approval AOSD** Toxicology (1H 2020) Multiple Myeloma

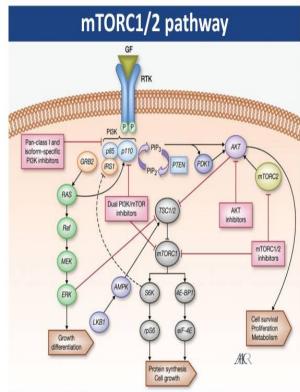




mTOR Pathway in Lymphatic Malformations (LM)

Lymphatic Malformations are a family of potentially life-threatening congenital diseases of the lymphatic system

- Orphan disease(s) with combined US prevalence of 30,000 to 60,000 patients
 - Kaposiform Lymphangiomatosis (KLA)
 - Generalized Lymphatic Anomaly (GLA)
 - Gorham Stout Disease (GSD)
 - Conducting Channel Anomalies (CCA)
- High morbidity and mortality, pediatric diseases with unmet needs
 - GLA 7-year mortality rate = ~20%
 - KLA median OS = 2.75 years, 5-year OS = $\sim 50\%$
 - No approved therapy
- Caused by mutations in PI3K/AKT/mTOR
 - Clinically meaningful responses with off-label use of mTORC1 inhibitor sirolimus
- 1. Estimated from Perkins et al. (2010) Otolaryngol Head Neck Surg. 142(6):789-94.
- 2. Brouillard et al. (2014) J Clin Invest. 124(3):898-904.
- 3. Ozeki et al. (2016) Pediatr Blood Cancer. 63(5):832-8.
- 4. Croteau et al. (2014) J Pediatr. 164(2):383-8.
- 22 | 5. Adams et al. (2016) Pediatrics. 137(2):e20153257.







Cell Proliferation

Cell Survival

Angiogenesis



Off-label Use of mTOR Inhibitor Sirolimus in LM

Open-label clinical studies support efficacy, however use is limited by tolerability issues and lack of FDA approval

Phase 2 trial enrolled patients with complicated vascular anomalies

- Study enrolled patients with different subtypes of LM not controlled by previous medication, sclerotherapy and/or surgery
- Sirolimus was administered orally for 12 courses of 28 days each
- 57 patients were evaluable for efficacy at the end of course 6, and 53 were evaluable at the end of course 12

Safety and tolerability profile leads to low compliance, requires frequent monitoring

- Physicians reported that sirolimus causes high rates of stomatitis (~60%)
- Sirolimus bears black box warning for immunosuppression and malignancies

Overall Response	6-month (n=57)	12-month (n=53)	Grade 2 or > AEs	
Complete Response	0	0	 Blood/bone marrow (50%) 	
Partial Response	47 (83%)	45 (85%)	• Gastrointestinal (55%)	
Progressive Disease	7 (12%)	8 (15%)	 Metabolic/laboratory (20%) 	
Stable Disease	3 (5%)	0	• Infection (15%)	



AEVI-006: mTORC1/2 Inhibitor Developed by Astellas

High potency, 2nd generation, dual inhibitor of mTORC1/2 with potential for improved efficacy and tolerability

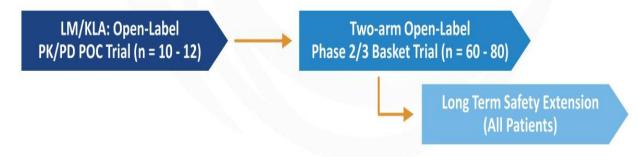
Phase 2-ready asset

- 4-week nonclinical tox studies completed
- Previously studied in Phase 1 MAD (n = 128)
- Development discontinued upon determination that target efficacious doses were above MTD (30mg QD)¹
- Significantly lower doses than MTD likely required to treat Lymphatic Malformations

LM presents an attractive market opportunity

- TAM estimated to be 10% of LM patients (~3,000)
- Estimated PYS for US market = \$450 900M
- PRV eligible, pricing similar to Afinitor (\$190K/yr)

- Dual mTOR inhibitor maximizes impact of mTOR blockade, as mTORC2 is insensitive to rapalogs
- Orally available, ATP-competitive kinase inhibitor; $IC_{50} = 22 \text{ nM}$ and 65 nM for mTORC1 and mTORC2, respectively²
- Active against a broad panel of tumor cell lines, with IC₅₀ values <10 μM, including models resistant to rapalogs²





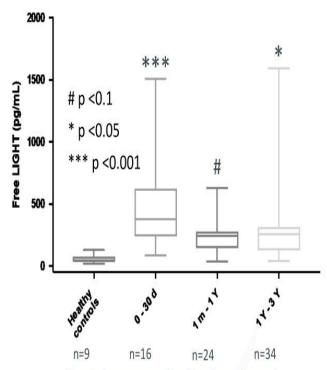


Elevated LIGHT is Associated with Active Inflammatory Disease

A novel target for autoimmune disease identified via CHOP discovery

- LIGHT (Lymphotoxin-like, exhibits Inducible expression, and competes with HSV Glycoprotein D for HVEM, a receptor expressed by Tlymphocytes)
 - Novel TNF superfamily member implicated as a key mediator of inflammation
 - Co-stimulator of T cells and can stimulate a Th1 profile of cytokines, including IFNy1
 - Expressed on activated T cells, NK cells, monocytes, granulocytes, and immature dendritic cells²
- Elevated free LIGHT levels detected in Pediatric Crohn's Disease patients using Aevi's proprietary assay
 - Free LIGHT correlates with disease activity in patient plasma samples from **CHOP BioBank**
 - Plasma and tissue LIGHT levels are elevated in patients with IBD

Free LIGHT Levels in Pediatric Crohn's Disease



Sample type grouped by time from diagnosis

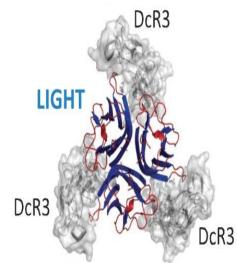
In a non-interventional study of 81 patients undergoing colonoscopy and biopsy, elevated mRNA levels of LIGHT were detected in the inflamed tissues of patients with IBD, compared to healthy individuals



AEVI-002: Anti-LIGHT mAb Partnered with KHK

Clinical-stage, first-in-class monoclonal antibody against LIGHT, originally discovered by La Jolla Allergy Institute

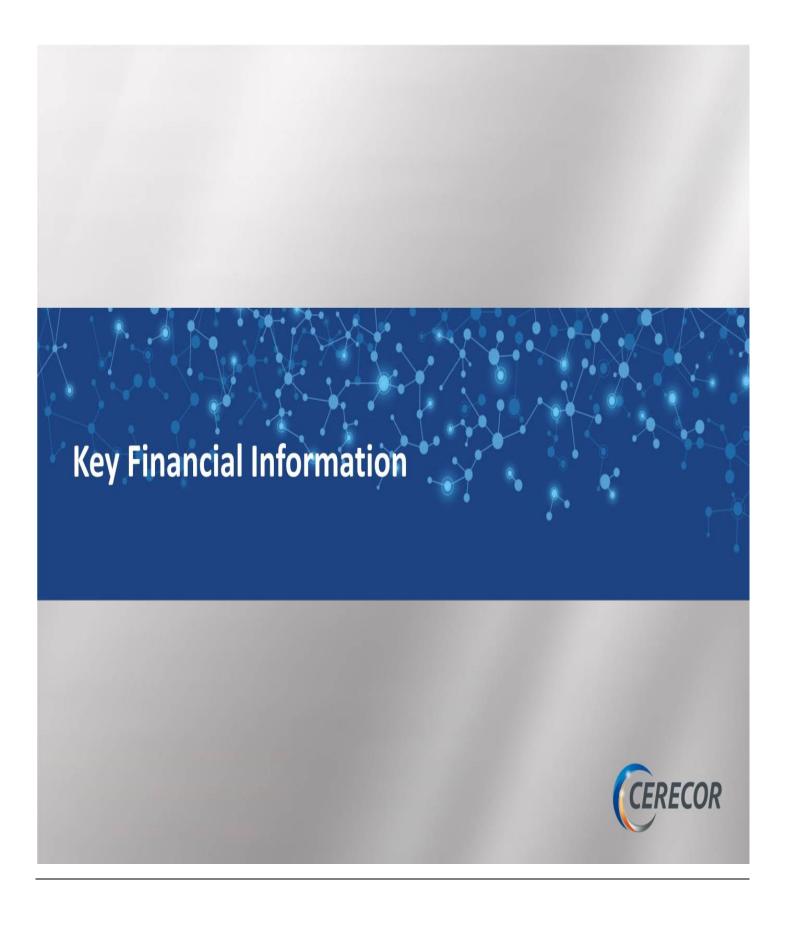
- Fully-human, IgG4 antibody with successfully completed Phase 1 SAD study in healthy volunteers
 - Demonstrated good safety up to 1200 mg single doses
 - Favorable PK profile supportive of q14d, sc dosing
 - 8-week monkey tox showed minimal immunogenicity and benign safety profile
- Anti-LIGHT blockade presents on opportunity for an immuno-regulatory agent with a novel mode of action
 - Initial orphan indication: Severe Pediatric-Onset IBD, a life-altering, serious disease with significant unmet need
- Free LIGHT assay developed in collaboration with MyriadRBM enables a precision medicine development approach



- LIGHT homo-trimer binds three DcR3 molecules capable of neutralizing activity
- Anti-LIGHT mAb AEVI-002 binds to the same sites as DcR3. resulting in blockade of signal transduction

Phase 1/2 open-label signal finding study currently ongoing; initial data expected 1H 2020





Financial & Investor Information

Key financial highlights

NASDAQ:CERC

- Share Price (as of 12/16/19) = \$4.47
 - 52-week high = \$7.66
 - 52-week low = \$2.71
- O/S = 45.8M
- Market Cap (as of 12/16/19): \$205M
- Average Daily Volume: 69K
- Pro-Forma Cash as of September 30, 2019 (following the closing of the Aytu transaction) = \$9.1M

NASDAQ:GNMX

- Share Price (as of 12/16/19) = \$0.14
 - 52-week high = \$1.31
 - 52-week low = \$0.11
- O/S = 64.8M
- Market Cap (as of 12/16/19): \$9M
- Average Daily Volume: 359K

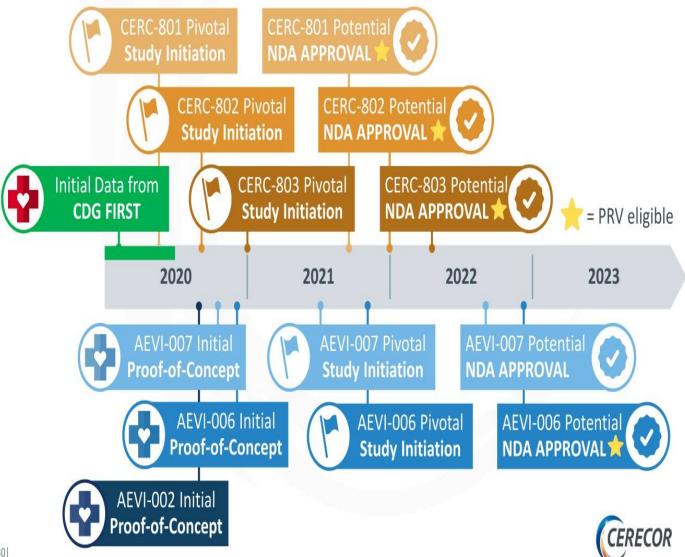
Continued optionality and cash flows from Millipred®, with a means to assist in funding portfolio assets

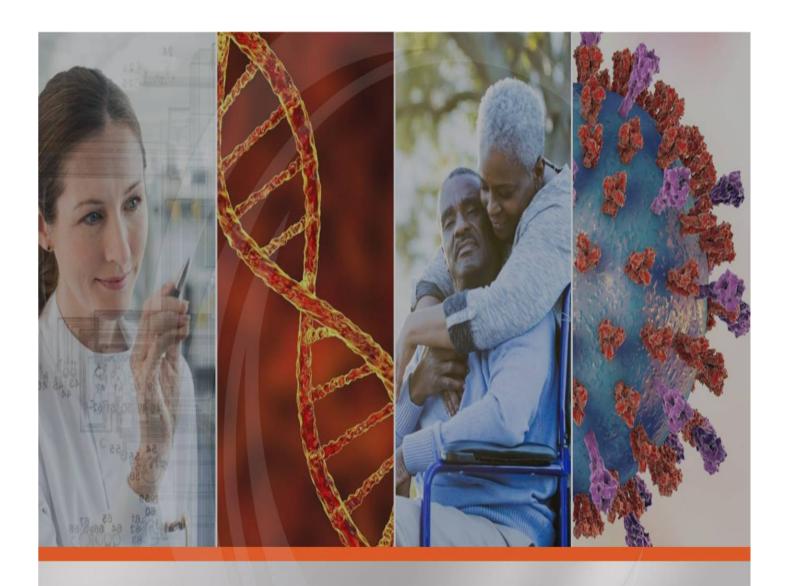


Executive Summary

Unique potential for multiple drug approvals through 2023

- Execution on orphan pipeline to deliver value for patients and shareholders
 - Attractive commercial opportunities and 4 potential PRV awards from first-in-class medicines for diseases with no approved treatment options





Driven by Science Inspired by Hope

NASDAQ:CERC

www.cerecor.com



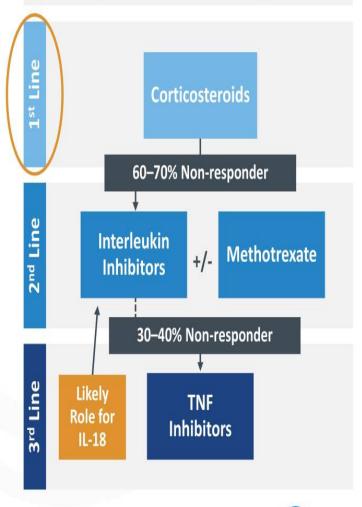


AOSD Treatment Paradigm

Currently there are no approved targeted therapies for AOSD in the US, and no interventional clinical trials underway

- · Fever, rash, pharyngitis, arthritis, liver disease and increased ferritin
 - No definitive genetic or infectious cause
 - At least half have severe, chronic disease
 - Elevated serum IL-18¹
- Initially treated corticosteroids & NSAIDs; 30 - 40% response rate
 - Non-responders treated with biologics (anti-IL-1/IL-6) +/- MTX; 30 - 40% still fail to respond
 - Initially position AEVI-007 for use in patients refractory to existing biologics (~ 900 patients in US)
 - Precision medicine approach with predictive biomarkers will facilitate positioning as first-line therapy (2000–2500 patients in the US)

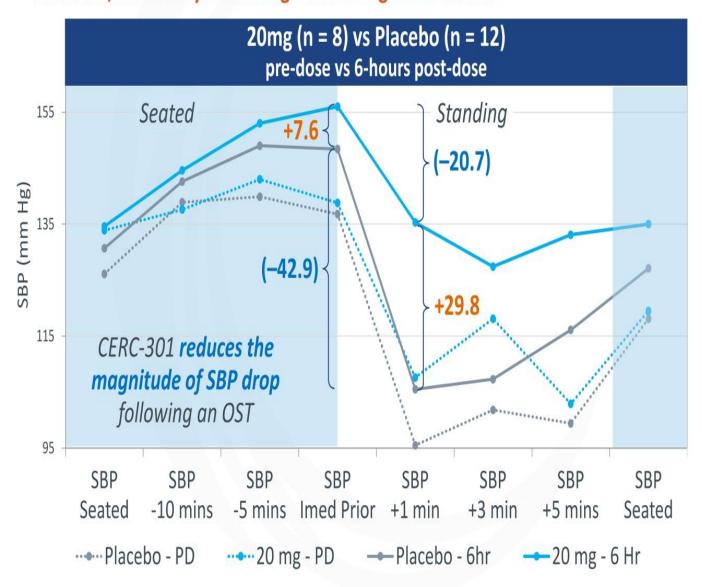
Opportunity to target sub-population presenting with significantly elevated serum IL-18 for first-line AEVI-007 therapy





CERC-301: Phase I Results in nOH Highlighting 20mg Dose

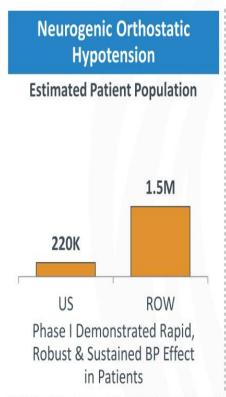
20mg dose results in +29.8mm Hg increase in SBP over placebo at 6-hour post-dose OST, while only increasing +7.6mm Hg while seated

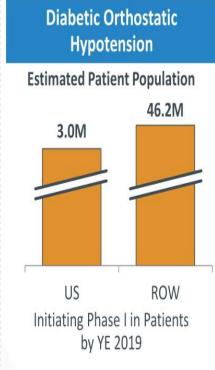


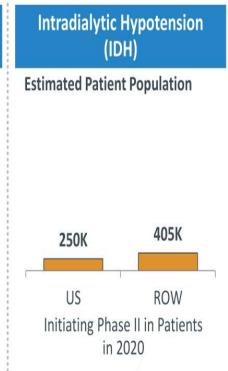


CERC-301: A Pipeline Within a Product

CERC-301's differentiated profile expands addressable patient population to additional diseases characterized by low blood pressure





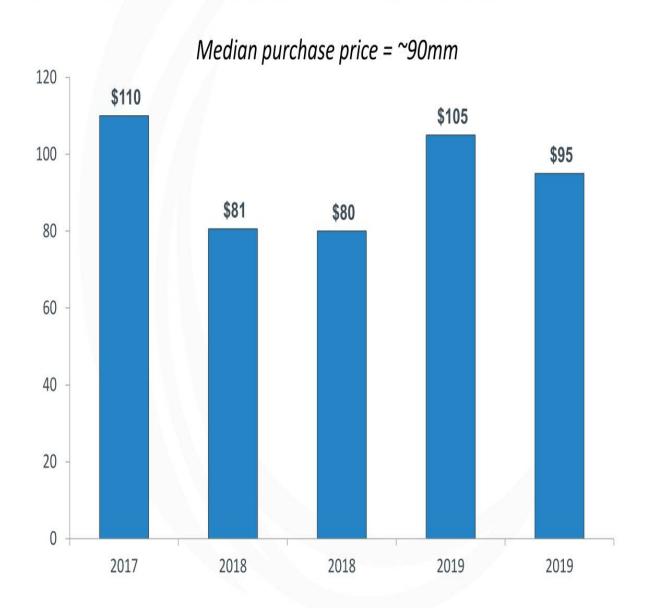


- Large target addressable markets with limited therapeutic options
 - Northera® and midodrine act as direct adrenergic agonists with narrow clinical utility, resulting in unmet medical needs
 - Clinical proof-of-concept throughout 2019 and 2020 will create an opportunity for strategic partnership(s)
 - Seeking strategic partnership to support continued clinical development



Value of a Priority Review Voucher

Recent PRV sales demonstrate stabilization in asset valuation





Preclinical Pipeline

Additional early-stage, preclinical programs leveraging novel approaches to diseases with high unmet needs

Potential for 3 new IND filings throughout 2020

	Drogram	Mechanism	Lead Indication	Development Stage		
	Program	of Action		Discovery	Lead Opt	IND-Enabling
CERC	CERC-406	CNS-Targeted COMT inhibitor	Parkinson's Disease			
CE	CERC-913	Nucleoside replacement	DGUOK Deficiency			
GNMX	AEVI-005	First-in-class mAb (undisclosed target)	Rare auto- inflammatory			

