

## H.C. Wainwright 24th Annual Global Investment Conference



Asset-Centric.

Patient-Centric.



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This presentation may contain forward-looking statements made pursuant to the safe harbor provisions of the Private Securities Litigation Reform Act of 1995. Statements in this presentation that are not statements of historical fact are forward-looking statements, including, without limitation, statements related to the Company's ability to deliver impactful medicines to patients; the ability of our key executives to drive execution of the Company's portfolio of programs; our asset-centric business model and the intended advantages and benefits thereof; research and clinical development plans; the scope, progress, results and costs of developing our product candidates or any other future product candidates; the development and therapeutic potential of our product candidates, including SerpinPC, LB101, MGX292, OX2R and our LockBody platform; strategy; regulatory matters, including the timing and likelihood of success of obtaining approvals to initiate or continue clinical trials or market any products; market size and opportunity for our product candidates; and our anticipated cash runway. Words such as "may," "might," "will," "could," "would," "should," "expect," "intend," "plan," "objective," "anticipate," "believe," "estimate," "predict," "potential," "continue," "ongoing," "aim," "seek," and variations of these words or similar expressions are intended to identify forward-looking statements, though not all forward-looking statements necessarily contain these identifying words. These forward-looking statements are based on the beliefs of the Company's management as well as assumptions made by and information currently available to the Company. Such statements reflect the current views of the Company with respect to future events and are subject to known and unknown risks, including, without limitation, risks related to our ability to protect and maintain our intellectual property position; business, regulatory, economic and competitive risks, uncertainties, contingencies and assumptions about the Company; risks inherent in developing products and

technologies; future results from our ongoing and planned clinical trials; our ability to obtain adequate financing, including through our financing facility with Oberland, to fund our planned clinical trials and other expenses; trends in the industry; the legal and regulatory framework for the industry, including the receipt and maintenance of clearances to conduct or continue clinical testing; future expenditures risks related to our asset-centric corporate model; the risk that any one or more of our product candidates will not be successfully developed and commercialized; the risk that the results of preclinical studies or clinical studies will not be predictive of future results in connection with future studies; and risks related to the COVID-19 pandemic including the effects of the Delta, Omicron and any other variants, geo-political risks such as the Russia-Ukraine conflict and other risk factors contained in our filings with the U.S. Securities and Exchange Commission. In light of these risks and uncertainties, the events or circumstances referred to in the forward-looking statements may not occur. The actual results may vary from the anticipated results and the variations may be material. These forward-looking statements should not be taken as forecasts or promises nor should they be taken as implying any indication, assurance or guarantee that the assumptions on which such forward looking statements have been made are correct or exhaustive or, in the case of the assumptions, fully stated in this presentation. You are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date this presentation is given. All projections, valuations and statistical analyses are provided for information purposes only. They may be based on subjective assessments and assumptions and may use one among alternative methodologies that produce different results and to the extent they are based on historical information, they should not be relied upon as an accurate prediction of future performance.

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#### OUR MISSION To discover and develop medicines that are truly transformational for patients

 $\times$ 

Multiple potential blockbuster assets with clinical readouts anticipated over next two years

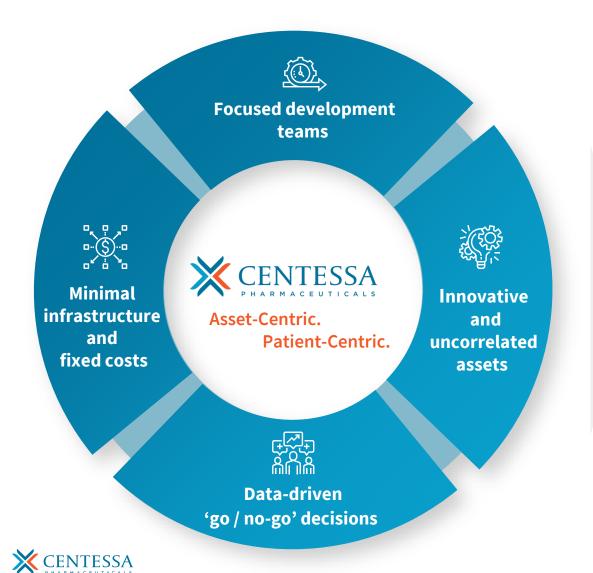


Cash runway into <u>2026</u> enables clinical proof of concept readouts across portfolio

World-class R&D team

#### DIFFERENTIATION

We are a transformational pharmaceutical company fueling an innovative pipeline

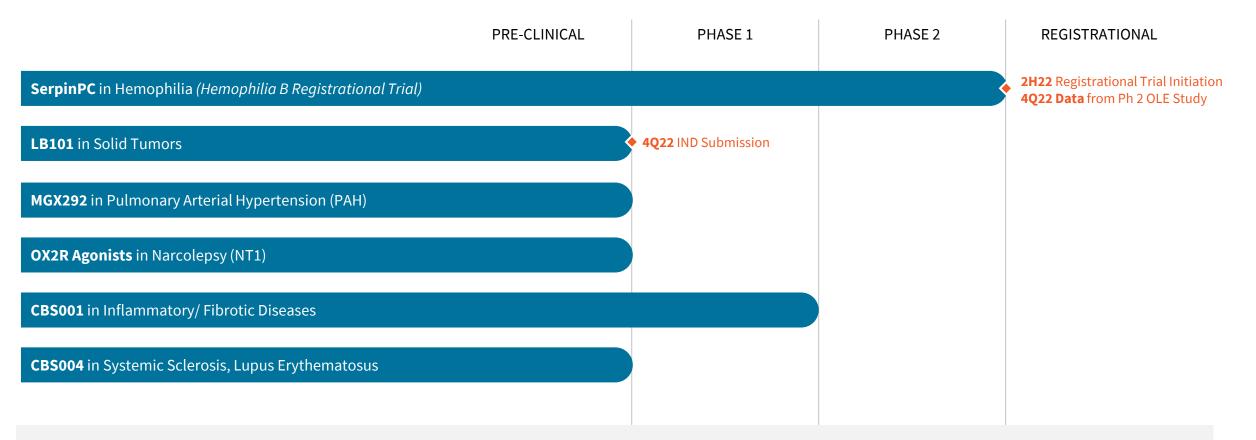


#### MULTIPLE PATHWAYS TO SIGNIFICANT VALUE CREATION

Lead Assets	Disease	Estimated Market Size <sup>*</sup>
SerpinPC	Hemophilia B	\$2B+ <sup>1</sup>
LB101	Solid Tumors	<b>\$10B+</b> <sup>1</sup>
MGX292	Pulmonary Arterial Hypertension (PAH)	\$6 <b>B</b> <sup>1</sup>
OX2R Agonists	Narcolepsy (NT1)	\$2 <b>B+</b> <sup>1</sup>

\*Source: <sup>1</sup>Evaluate Pharma 2021 and <sup>2</sup>internal estimates Centessa has several earlier stage programs that are not reflected on this slide. 4

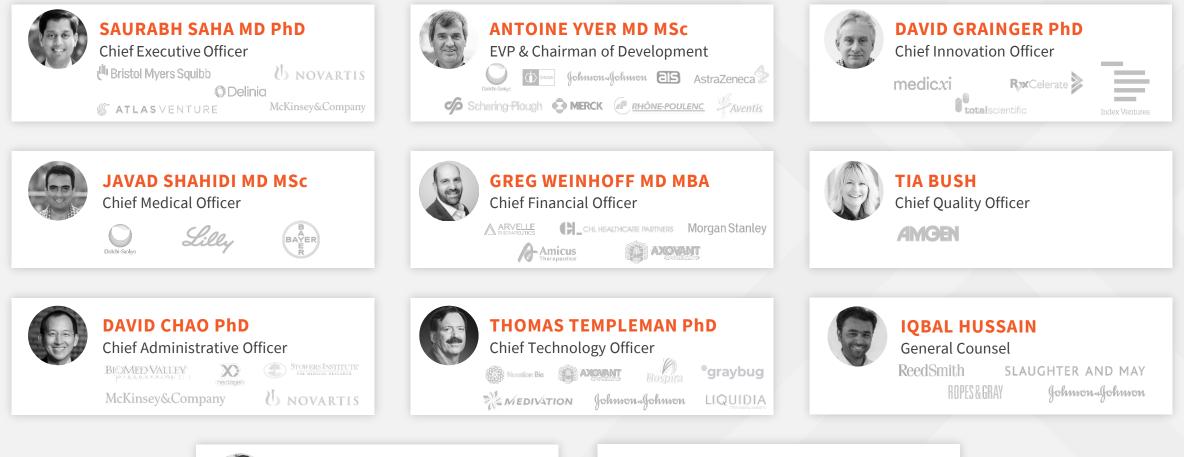
#### POTENTIAL FIRST-IN-CLASS/ BEST-IN-CLASS MEDICINES FOR PATIENTS Rare disease and immuno-oncology pipeline



#### CASH RUNWAY INTO 2026 ENABLES CLINICAL PROOF OF CONCEPT READOUTS ACROSS PIPELINE \$484 million in cash and cash equivalents as of June 30, 2022



#### LEADERSHIP **Team with deep R&D experience focused on execution**







pharmaceuticals (

Locust Walk aamida (•ell molecularinsight 🐾

genzyme



**KRISTEN SHEPPARD ESQ.** SVP, Investor Relations & Corp. Comm. Dicerna 77, STAGE Akebia

CABLETRON

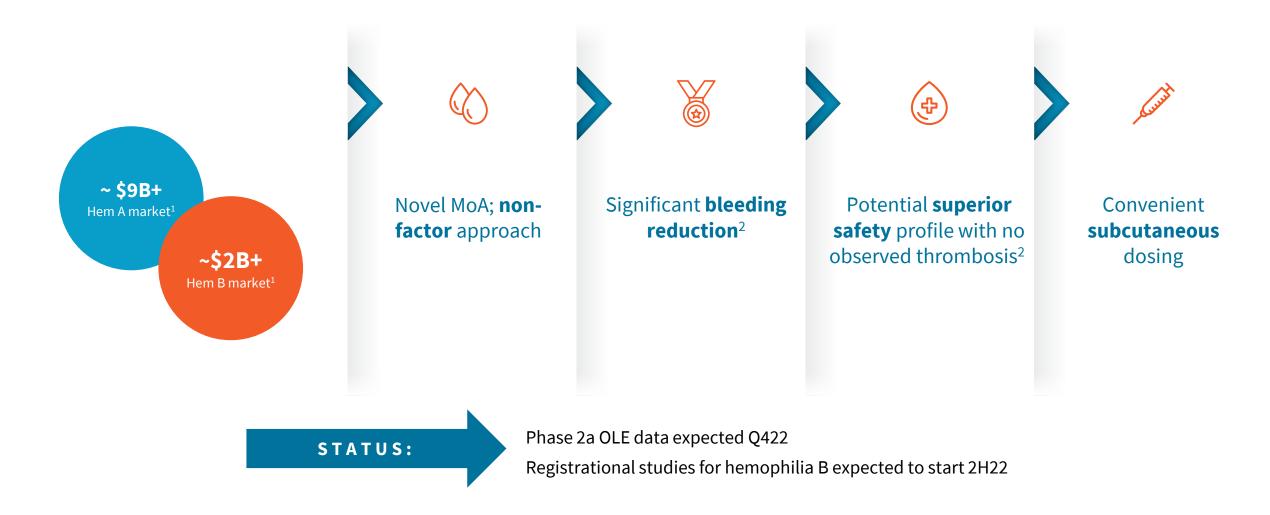
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## SerpinPC in Hemophilia



## SerpinPC: Potential transformative therapy in hemophilia

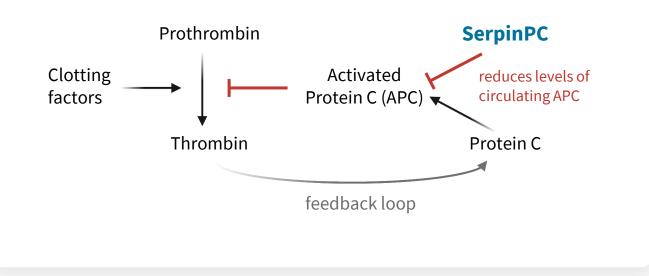




SerpinPC is a serine protease inhibitor (SERPIN) engineered to specifically inhibit activated protein C (APC) and is being developed for the treatment of hemophilia. \*Source: 1.Evaluate Pharma 2021 2. Phase 2a Study conducted in Georgia and Moldova to evaluate safety and efficacy of SerpinPC in a population of severe hemophilia A and B subjects not on previous prophylaxis and with a history of substantial bleeding.

## SerpinPC unique MoA supported by human genetics

#### **Primary APC is the target of SerpinPC**



## **SerpinPC Mechanism**

- Human genetic target validation
- Inhibition of APC increases thrombin
- Feedback loop prevents excess thrombin generation



## Phase 2a Study: SerpinPC significantly reduced bleeding rates

#### Median ABR reduction for highest dose cohort (1.2 mg/kg)0% **Spontaneous** -20% All bleeds joint bleeds -40% -60% -94% -80% -100% Median ABR Median ABR reduced from reduced from 36.0 to 4.4 21.1 to 2.2

## SerpinPC well-tolerated

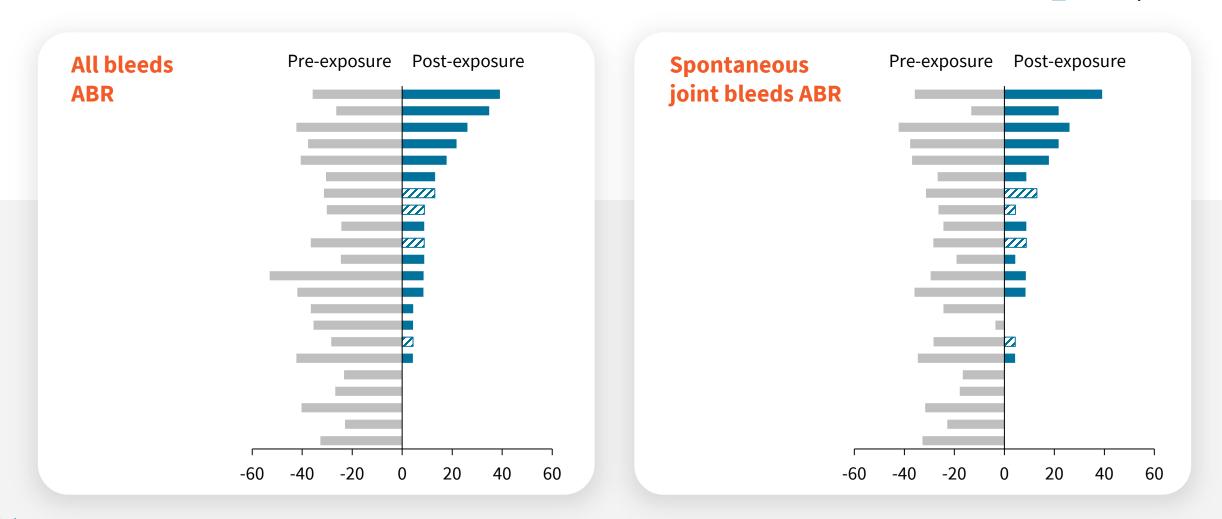
All dose levels:

- 😢 No thrombosis
- No instances of sustained elevations in D-dimer



# Phase 2a Study: Individual observed ABRs for all bleeds and spontaneous joint bleeds

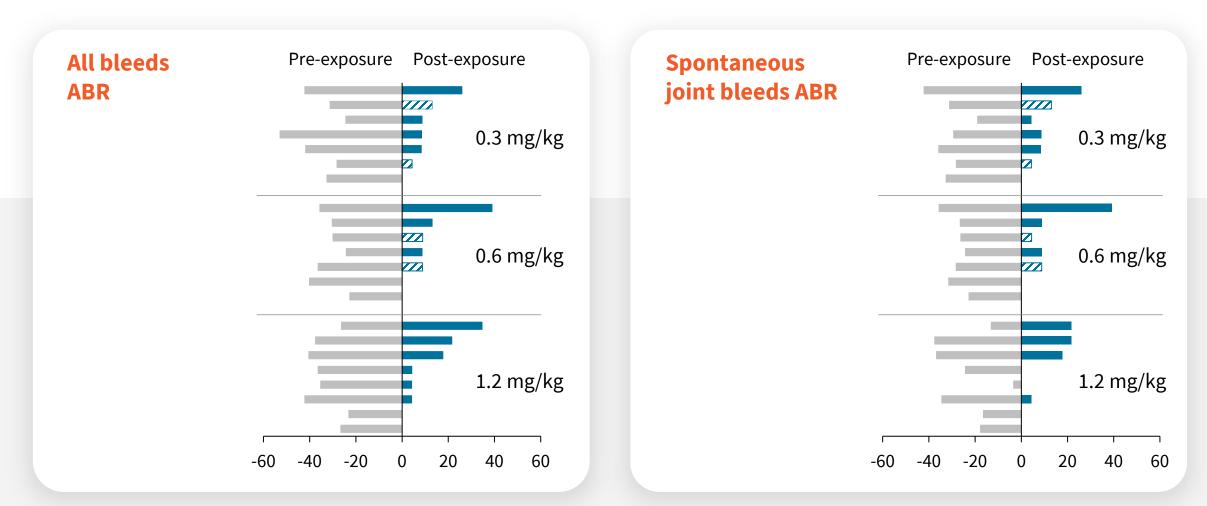
Hem A subjects<sup>1</sup>
Hem B subjects<sup>1</sup>



**CENTESSA** ABR is annualized bleeding rate. 1. During second 12 weeks of exposure (as prespecified in the statistical analysis plan). Once monthly injections.

## Phase 2a Study: Individual observed ABRs across dose cohorts

Hem A subjects<sup>1</sup>
Hem B subjects<sup>1</sup>



**CENTESSA** ABR is annualized bleeding rate. 1. During second 12 weeks of exposure (as prespecified in the statistical analysis plan). Once monthly injections.

## Two SerpinPC registrational studies expected to start 2H 2022

#### Hemophilia B without inhibitors

~120 subjects (including Hem A to support safety database)

**Dosing for prophylaxis and on-demand cohorts:** 1.2 mpk once weekly, twice monthly or once monthly to be selected dose

**Primary Endpoint:** annual bleed rate in the observation period and during the first 24 weeks with SerpinPC

#### Hemophilia B with inhibitors

<20 subjects

**Dosing for all subjects:** 1.2 mpk twice monthly dose

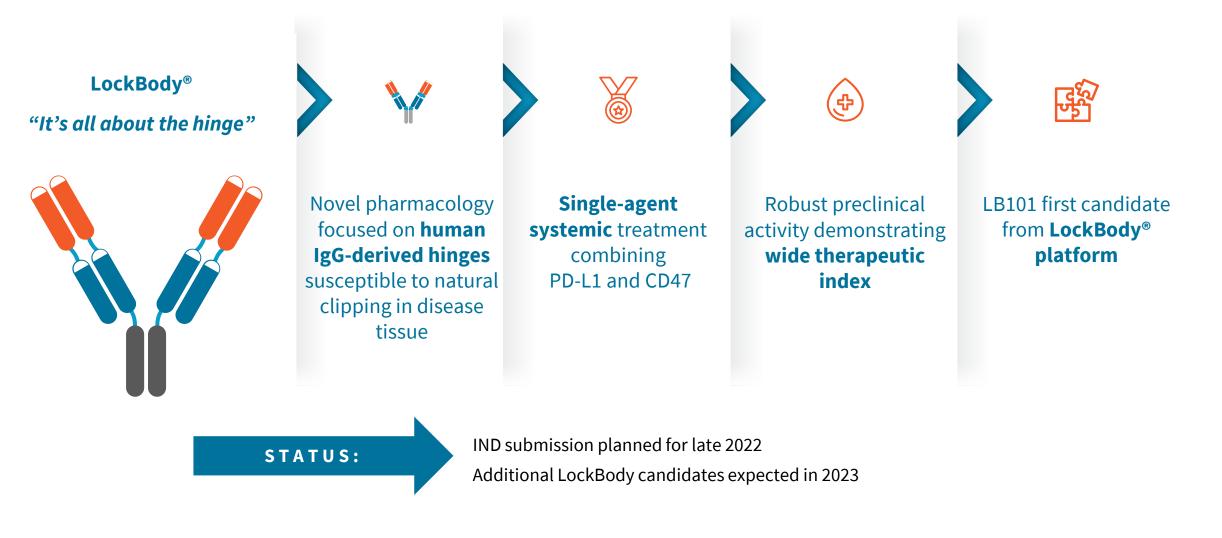
**Primary Endpoint:** annual bleed rate in the observation period and during the first 24 weeks with SerpinPC



## LB101 O in Solid Tumors



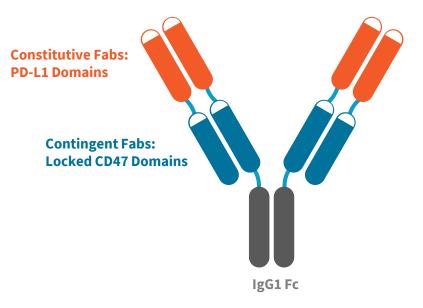
## LB101: Single-agent novel immunotherapy targeting solid tumors Pioneering our novel LockBody<sup>®</sup> pharmacology





# LB101: Designed to optimally deliver anti-PD-L1 activity plus targeted anti-CD47 activity to the TME

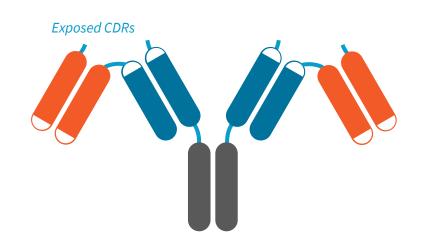
### LOCKED



**Peripheral Stability:** IgG1 hinges naturally resistant to cleavage in serum

Constitutive Fabs drive tumor enrichment + Natural cleavage of IgG-derived hinges in tumors

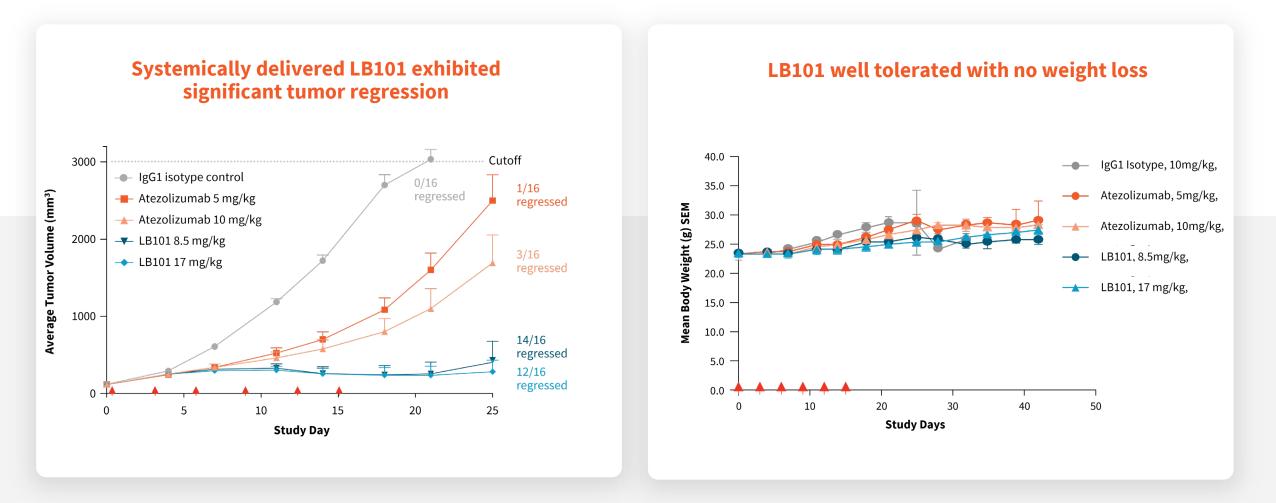
### UNLOCKED



**Tumor Unlocking:** IgG1 hinges susceptible to cleavage in diseased tissue by various natural processes



# LB101 vs. atezo: more efficacious in a difficult-to-treat model while being well tolerated

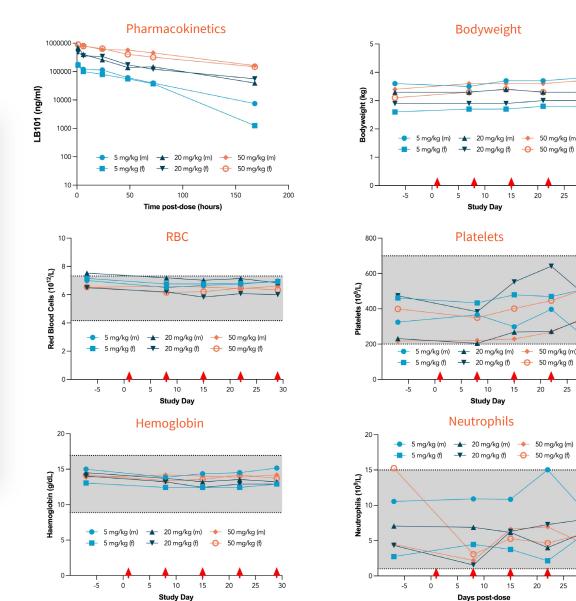




## LB101 safe and well tolerated in non-human primates

#### LB101 delivered IV at 5, 20, 50mg/kg (q7d x 4) in NHPs

- Human IgG1-like PK
- No adverse observations
  - No impact on any hematology (no anemia or thrombocytopenia)
  - No changes in pathology, clinical chemistry or coagulation parameters





MGX292 in Pulmonary Arterial Hypertensior

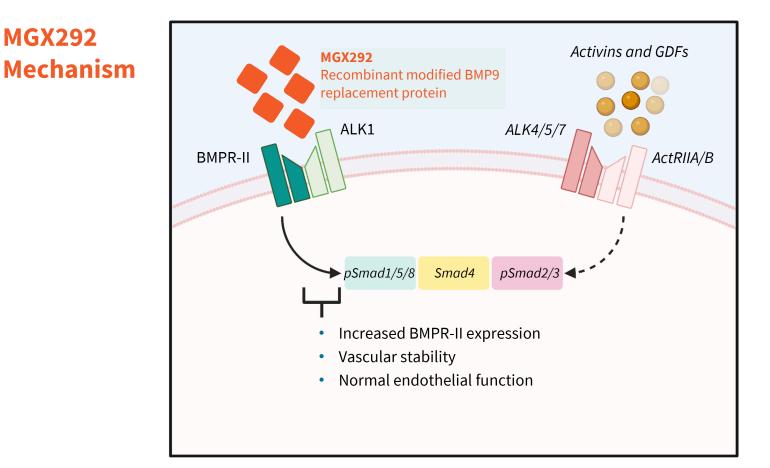


## MGX292: Potential for disease reversal in patients with PAH

Protein-engineered variant of BMP9, selective for BMPR2/ALK2



## MGX292: directly targeting genetically altered pathway in PAH



MGX292 selectively **activates the central pathway** that is deficient in PAH: endothelial BMP9 signaling

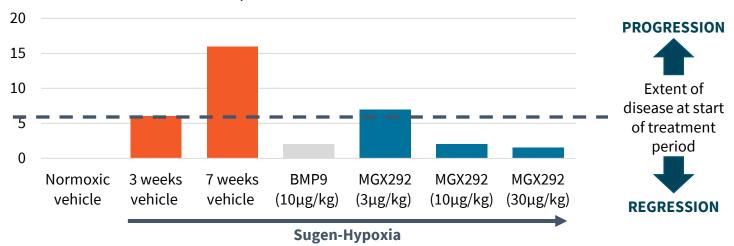


Preclinical Data: MGX292 demonstrated dosedependent reversal of established lung vascular pathology in Sugen-hypoxia rat model

#### **MGX292<sup>1</sup> reversed neointimal lesions** in Sugen-hypoxia rat model of severe PAH



Number of neointimal lesions per 100 vessel

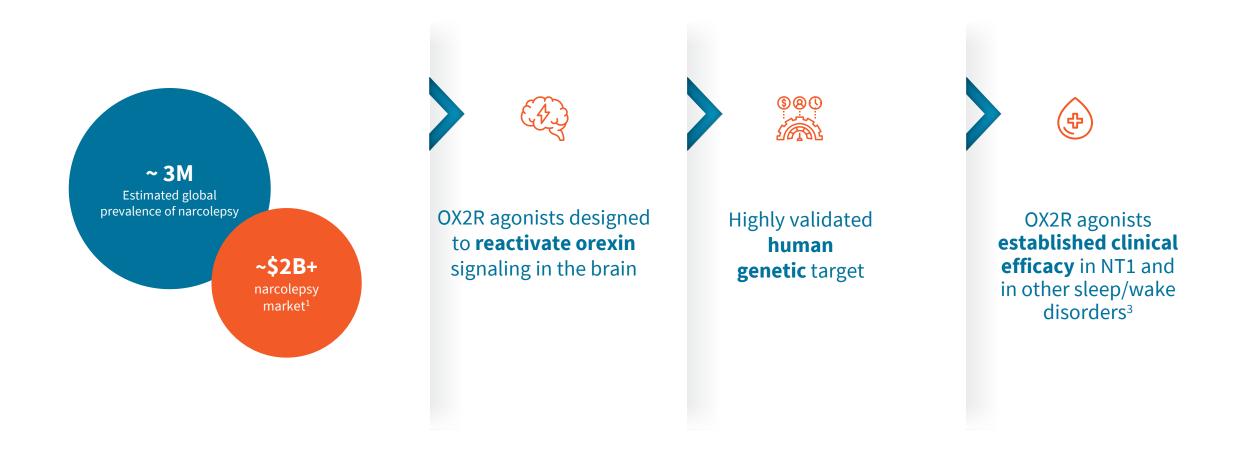




## Orexin Agonists for Sleep-Wake Disorders



## OX2R Agonists: Potential to change the standard of care for narcolepsy

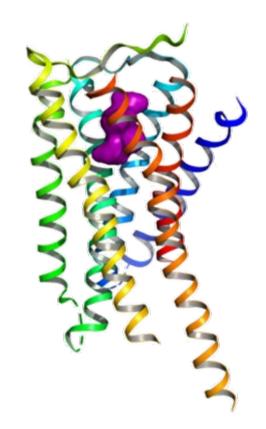




Structure-based drug design has enabled the discovery of OX2R agonists with potential as replacement therapy for narcolepsy

The newest compounds have demonstrated **sub-nanomolar potency** in *in vitro* assays \*

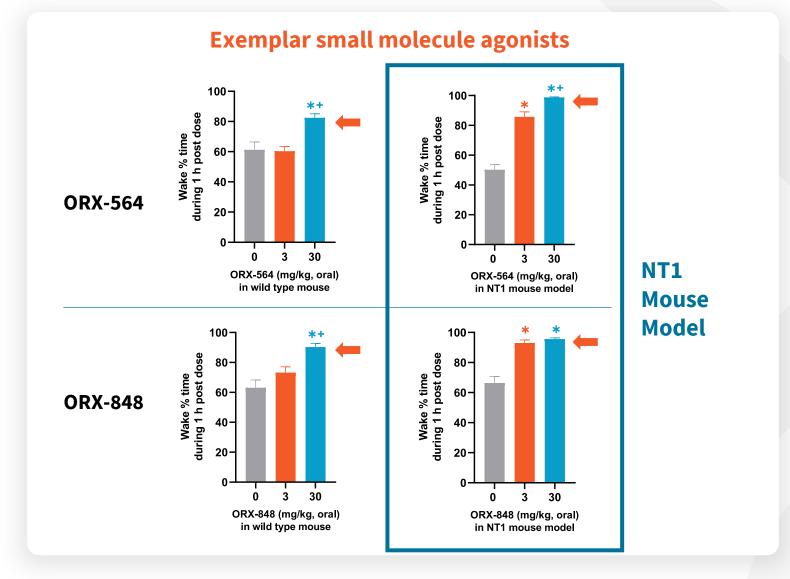
\* Based on EC50, *in vitro* functional profiles of exemplar small molecule agonists and exemplar peptide agonists in a calcium mobilization FLIPR assay with cells expressing recombinant human OX2R



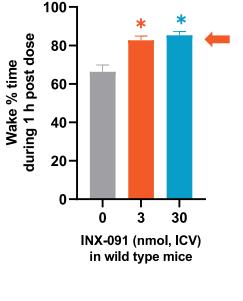
Structure of OX2R with small molecule orexin agonist (shown in purple)



## Novel OX2R agonists increase wakefulness in WT and NT1 mice



#### **Exemplar peptide agonist**



ICV is intracerebroventricular administration

For all graphs: P < 0.05 vs. 0 mg/kg; P < 0.05 vs. 3 mg/kg



## Multiple pathways to significant value creation



Multiple potential blockbuster assets with key clinical results anticipated over next two years



Cash runway into <u>2026</u> enables clinical proof of concept readouts across portfolio



World-class R&D team

Note: \$484.2 million in cash and cash equivalents as of June 30, 2022.



