

# Cereno Scientific

## **Ahead of the Curve – Changing the Treatment Paradigm of Cardiopulmonary Diseases**

Sten R. Sørensen, CEO and Board Member

17<sup>th</sup> June 2026



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# Cereno changing the treatment paradigm of cardiopulmonary diseases

-  Founded at University of Gothenburg, Sweden, in 2012
-  HQ: Sweden (Gothenburg), Subsidiary in Boston
-  Novel approach – Histone Deacetylase (HDAC) inhibition through epigenetic modulation – **disease-modification potential**
-  Leadership experienced in biotech, pharma and deal-making
-  Stock market: Nasdaq First North (CRNO B)
-  12,001 engaged retail shareholders
-  Market cap – USD 170 million (SEK 1.55 billion\*)

\*As of June 04<sup>th</sup>, 2026, SEK to USD Exchange rate as of 01<sup>st</sup> June 2026



# Epigenetic Modulation through HDAC inhibition targets core pathological drivers of cardiovascular and pulmonary disease

Cereno's Class I HDAC (targeting HDAC 1, 2, 3 & 8) Inhibitor Platform

Addresses the four core pathological drivers

## ➤ Vascular Remodeling

Reverses structural changes in pulmonary arteries

## ➤ Fibrosis

Anti-fibrotic action slows scar tissue formation

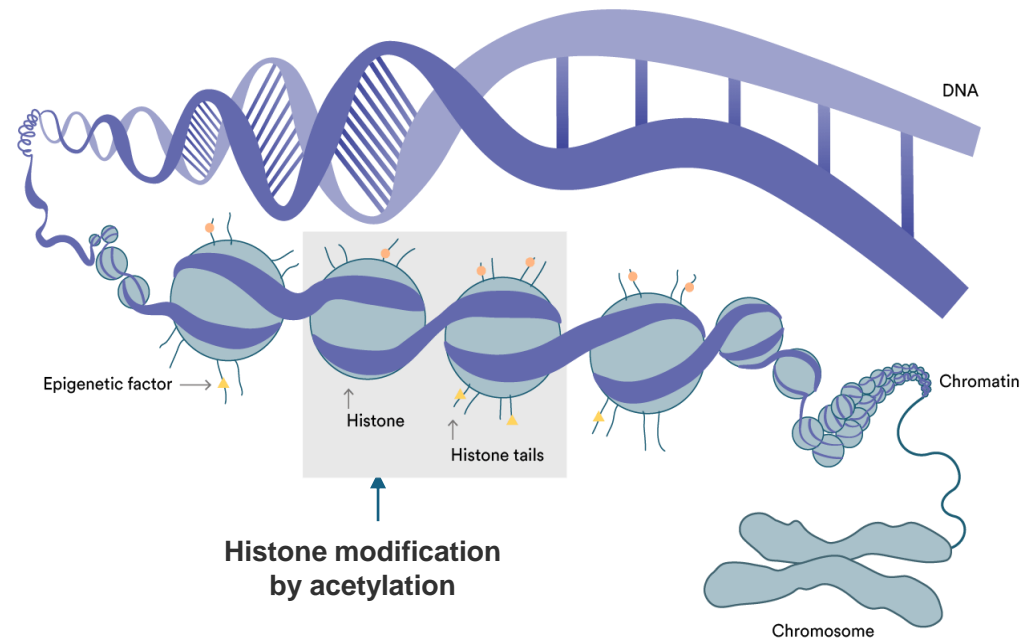
## ➤ Inflammation

Reduces pro-inflammatory cytokines (TGF- $\beta$ , IL-6, TNF- $\alpha$ )

## ➤ Thrombosis

Modulates fibrinolysis and platelet activity

Targets histone modification



**Goal: slow, halt and reverse disease progression**

# Cereno's first-in-class HDACi pipeline – a rare disease investment opportunity with broad expansion potential

- HDAC inhibition: **targets core disease drivers**
- Epigenetic modulation: **emerging central mechanism**
- **Validated biology across multiple indications**
- Shift from **symptom control** → **disease modification**
- Targets **remodeling, fibrosis, inflammation, thrombosis**
- **First-in-class HDACi pipeline**
  - CS1 – PAH – in Phase IIb
  - CS014 – PH-ILD - Phase IIb ready
- Initial focus on **rare/orphan diseases**
- **Scalable platform** for multiple diseases
  - CS014 – IPF/PPF, PH-COPD, PH-LHD, PH-HFpEF, MASH, others

### Scientific Validation

>37 research articles published in 2025 underscoring therapeutic potential and need for disease-modifying therapies (Nature, Lancet, JACC, etc.)

### Global Thought Leadership Validation

Endorsed by leading global PAH KOLs – Marc Humbert (Paris), Dr. Sandeep Sahay (Texas, US), Dr. Deepak Bhatt (Head of CVD, Mount Sinai, NYC, US)

### Substantial market opportunity

- \$19B+ PH market<sup>1-5</sup> - \$7B+ revenue opportunity
- CS1 PAH revenue opportunity - \$4B<sup>6-8</sup>
- CS014 PH-ILD revenue opportunity - \$3B<sup>6,8</sup>
- Patents through 2045/46 excluding extension

### Recent M&A Activity

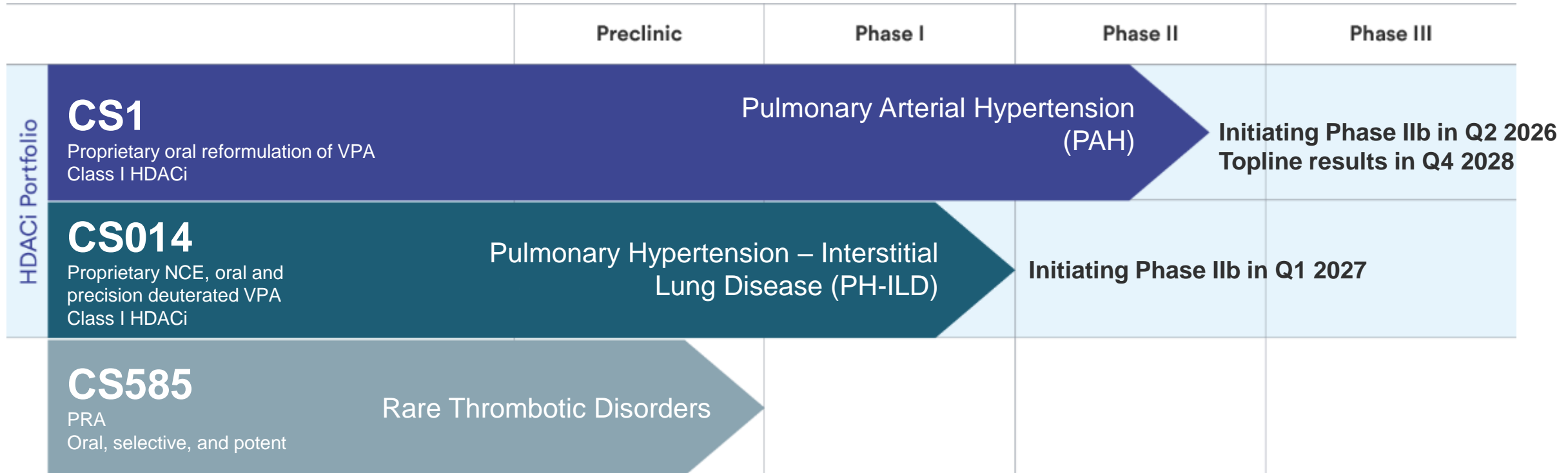
- \$11.5B Merck acquisition of Acceleron Pharma for Winrevair (sotatercept) – post phase II trial
- \$ 1B GSK acquisition of 35Pharma for HS235 – post preclinical data

Cereno Scientific's [Capital Markets Day, Feb 5](#), provides further overview of the strategy, pipeline, and upcoming milestones.

## HDACi First-in-class Pipeline

# Cereno Scientific continues to advance its HDACi clinical pipeline in rare diseases towards major milestones

### Initial Focus – Rare and Orphan Diseases



Note: Progress bars are only an estimation, not to scale.

## Scientific Validation

# Evolving recognition of epigenetic modulation through HDACi as a driving force of key drivers for cardiopulmonary diseases

SPRINGER  
NATURE

THE LANCET  
Healthy Longevity

Histone deacetylase inhibitors for cardiovascular conditions and healthy longevity

Journal of Internal Medicine, 2025, 278, 1–12

## The Role of HDAC3 in Pulmonary Diseases

Review | Published: 17 March 2025

Volume 203, article number 47, (2025) [Cite this article](#)

## Cell Proliferation

in basic and clinical sciences

REVIEW | [Open Access](#) |

## Role of Histone Deacetylase and Inhibitors in Cardiovascular Diseases

Li-Ying Zhang, Yue-Yue Wang, Bi Wen, Tie-Ning Zhang, Ni Yang

First published: 11 June 2025 | <https://doi.org/10.1111/cpr.70077> | [VIEW METRICS](#)

REVIEW article

Front. Physiol., 24 June 2024

Sec. Integrative Physiology

Volume 15 - 2024 | <https://doi.org/10.3389/fphys.2024.1405569>

frontiers

## Targeting histone deacetylase in cardiac diseases

JACC Journals - JACC - Archives - Just Accepted

[GET ACCESS](#) | JACC State of the Art Review | 11 March 2025

JACC  
JOURNALS

[nature](#) > [cell death & disease](#) > [review articles](#) > [article](#)

## Pulmonary Hypertension Associated With Left Heart Disease: Challenges, Etiologies, Strategies, and Future Directions

Authors: Muhammad Shaheeb Khan, Barry A. Borlaug, Jared Butler, Mandi Gombert-Matland, Marc Humbert, Lam, Yogesh N.V. Reddy, Gregg W. Stone, Faiez Zannad, and Ryan J. Tedford | [AUTHORS INFO & AFFILIATIONS](#)

[Home](#) > [Molecular and Cellular Biochemistry](#) > [Article](#)

## Unlocking cardiac health: exploring the role of class I HDACs in cardiovascular diseases

Open access | [Full Text](#)

Volume 480, pages 1–12

## Rewriting the vascular script: epigenetic modifiers as scribes of metabolic reprogramming in pulmonary hypertension

Review | Published: 03 September 2025

Volume 103, pages 1279–1298, (2025) [Cite this article](#)

Review article

## Interplay between genetics and epigenetics in lung fibrosis

Anita Valand<sup>a,b,c</sup>, Poojitha Rajasekar<sup>a,b,c</sup>, Louise V. Wain<sup>d,e</sup>, Rachel L. Clifford<sup>a,b,c,\*</sup>

<sup>a</sup> Centre for Respiratory Research, Translational Medical Sciences, School of Medicine, University of Nottingham, UK

<sup>b</sup> Nottingham NIHR Biomedical Research Centre, Nottingham, UK

<sup>c</sup> Bioscience Institute, University Park, University of Nottingham, UK

<sup>d</sup> Department of Population Health Sciences, University of Leicester, Leicester, UK

<sup>e</sup> NIHR Leicester Biomedical Research Centre, University of Leicester, Leicester, UK

nature

Review Article | [Open access](#) | Published: 18 March 2025

## Unraveling the metabolic–epigenetic nexus: a new frontier in cardiovascular disease treatment

Jun Ouyang, Daping Wu, Yumei Gan, Yuming Tang, Hui Wang & Jiangnan Huang

Cell Death & Disease 16, Article number: 183 (2025) | [Cite this article](#)

THE LANCET  
Respiratory Medicine

## Future treatment paradigms in pulmonary arterial hypertension: a personal view from physicians, health authorities, and patients

Franck F Rahaghi, Marc Humbert, Markus M Hoeper, R James White, Robert P Frantz, Paul M Hassoun, Anna R Hermes, Steven M Kawut, Valerie V McLaughlin, Gergely Meszaros, Peter GM Mol, Steven D Nathan, Mitchell A Psotka, Farhad N Rahaghi, Olivier Sitbon, Norman Stockbridge, Jason Weatherald, Faiez Zannad, Sandeep Sahay

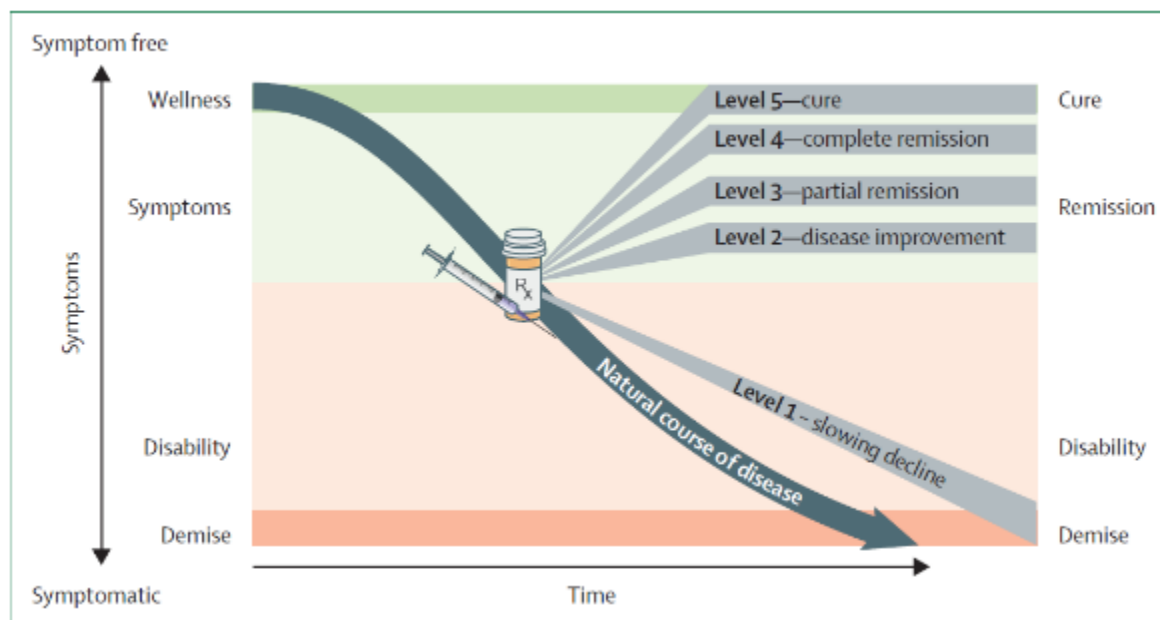
# PAH Drug Development - Paradigm Shift Towards Disease Modification

In February 2025, leading PAH experts and regulatory authorities published new expectations of PAH treatments<sup>1</sup>

➤ From mainly symptom management → to slow, halt and reverse PAH disease progression

THE LANCET  
Respiratory Medicine

Levels of clinical response in pulmonary arterial hypertension



# CS1 Lead PAH Program

- First-in-class disease-modifying epigenetic treatment for PAH
- Established good safety & tolerability profile
- Phase IIb trial – near-term inflection catalyst



# PAH Preclinical data with VPA indicate prevention and reversal of pathological remodeling and reduced mPAP

RESEARCH ARTICLE

## Therapeutic Efficacy of Valproic Acid in a Combined Monocrotaline and Chronic Hypoxia Rat Model of Severe Pulmonary Hypertension

Beidi Lan, Emiko Hayama, Nanako Kawaguchi, Yoshiyuki Furutani, Toshio Nakanishi\*

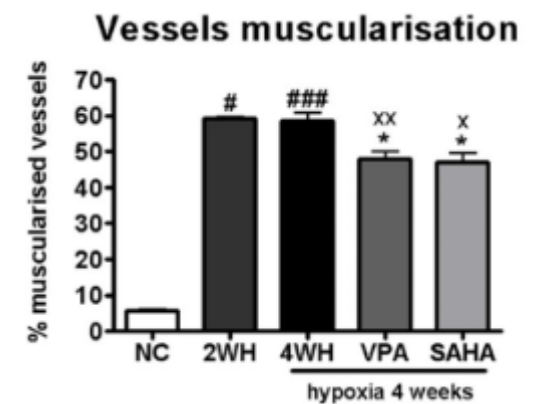
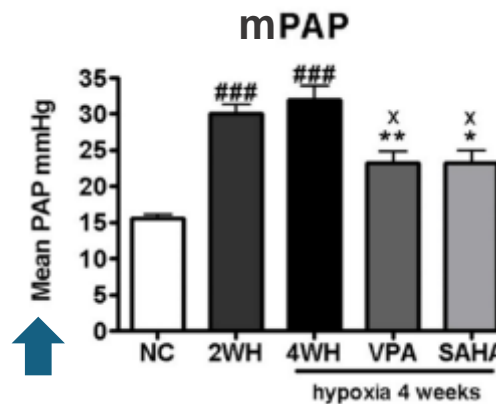
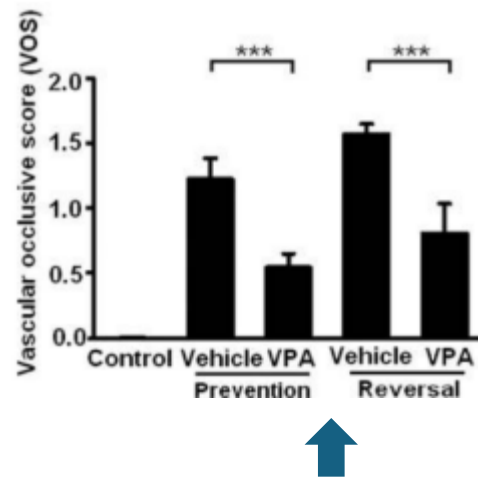
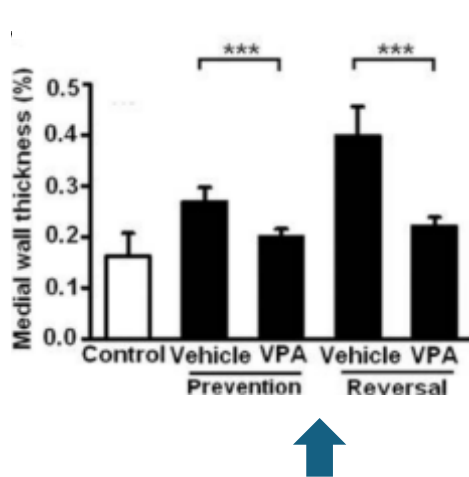
Department of Pediatric Cardiology, Tokyo Women's Medical University, Tokyo, Japan

## Histone deacetylation inhibition in pulmonary hypertension: therapeutic potential of valproic acid (VPA) and suberoylanilide hydroxamic acid (SAHA)

Lan Zhao, M.D PhD<sup>1,†</sup>, Chien-Nien Chen, M.D<sup>1</sup>, Nabil Hajji, PhD<sup>1</sup>, Eduardo Oliver, PhD<sup>1</sup>, Emanuele Cotroneo, PhD<sup>1</sup>, John Wharton, PhD<sup>1</sup>, Daren Wang, PhD<sup>2</sup>, Min Li, PhD<sup>2</sup>, Timothy A. McKinsey, PhD<sup>2</sup>, Kurt R. Stenmark, M.D<sup>2</sup>, and Martin R. Wilkins, M.D<sup>1</sup>

<sup>1</sup>Centre for Pharmacology and Therapeutics, Experimental Medicine, Imperial College London, Hammersmith Hospital, Du Cane Road, London W12 0NN, UK

<sup>2</sup>Department of Pediatrics, Division of Critical Care Medicine, University of Colorado Denver, USA



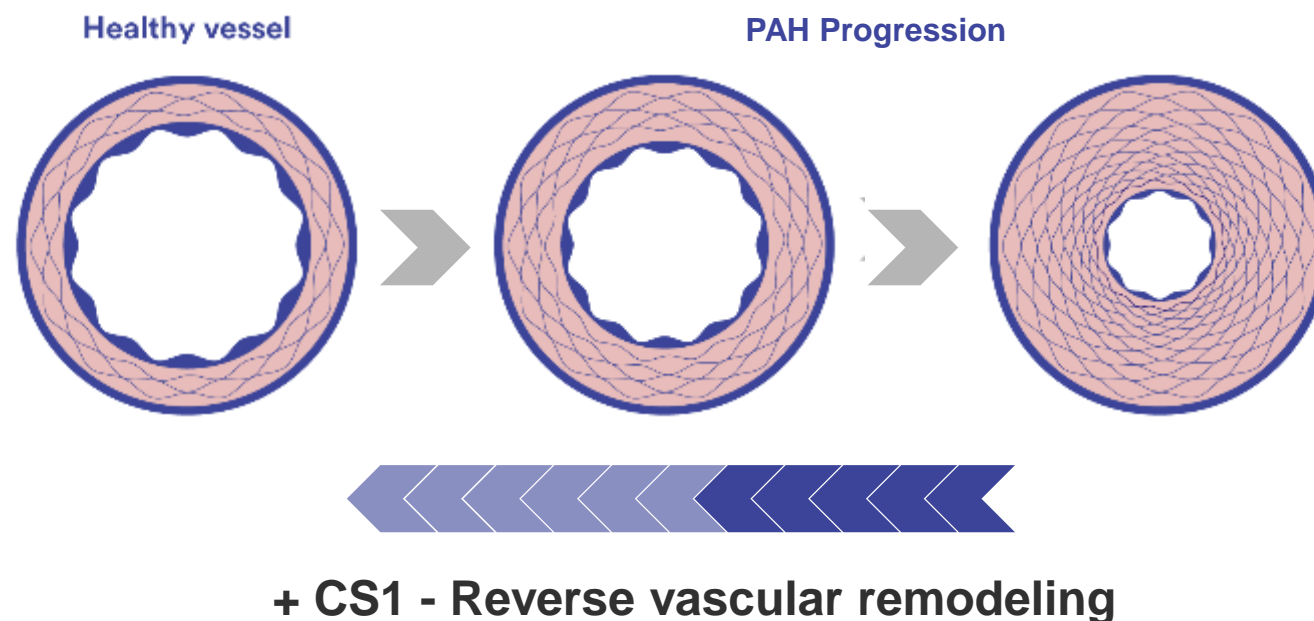
# CS1 – once daily oral therapy aims to slow, halt and reverse PAH disease progression

Preclinical & clinical results consistent with signals of reverse remodeling

Phase IIa results

- Good safety and tolerability profile
- Efficacy signals :
  - Improved right ventricle heart function ✓
  - Improved patient's quality of life ✓
  - Reduced risk of mortality ✓
- Expanded Access Request

## Pathological vascular remodeling in PAH



# CS1 - Improved REVEAL 2.0 risk score, NYHA functional class, and mPAP (AUC) – reduced risk of mortality

**43% of the patients improved REVEAL 2.0 risk score:**

1-point reduction in risk score in 12 weeks associated with **23% reduction in relative risk of death at 12 months**<sup>1</sup>

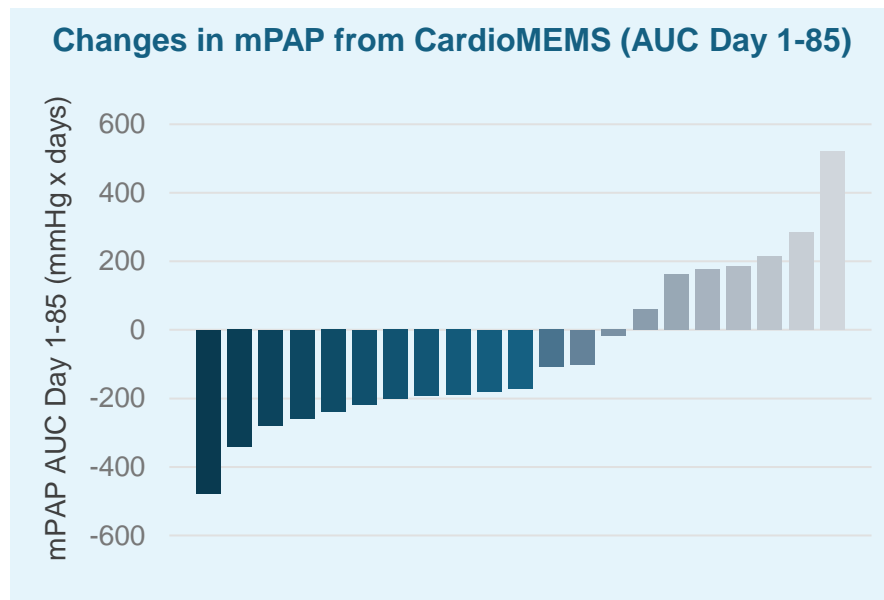
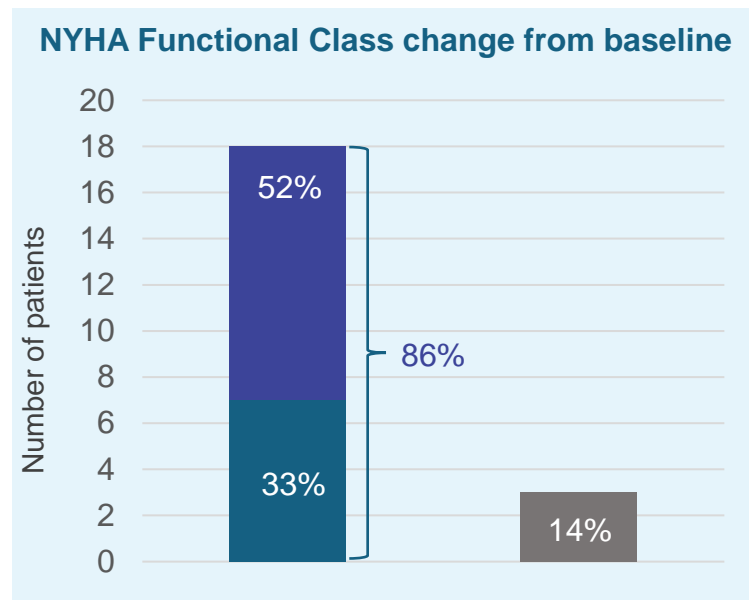
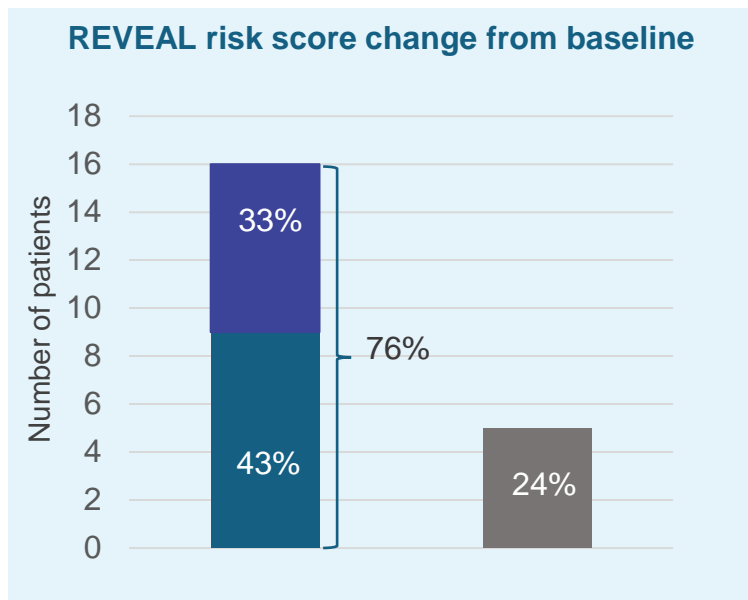
**86% improved or had stable functional class (FC):**

**Improvement in FC associated with improved survival**<sup>2,3</sup> .

Two patients achieved FC I; No patients deteriorated to FC IV

**Sustained reduction of mPAP AUC in 67% of patients:**

Small change of ePAD of 3, 4, or 5 mmHg from baseline to 6 months is associated with decreased mortality risk<sup>4</sup>



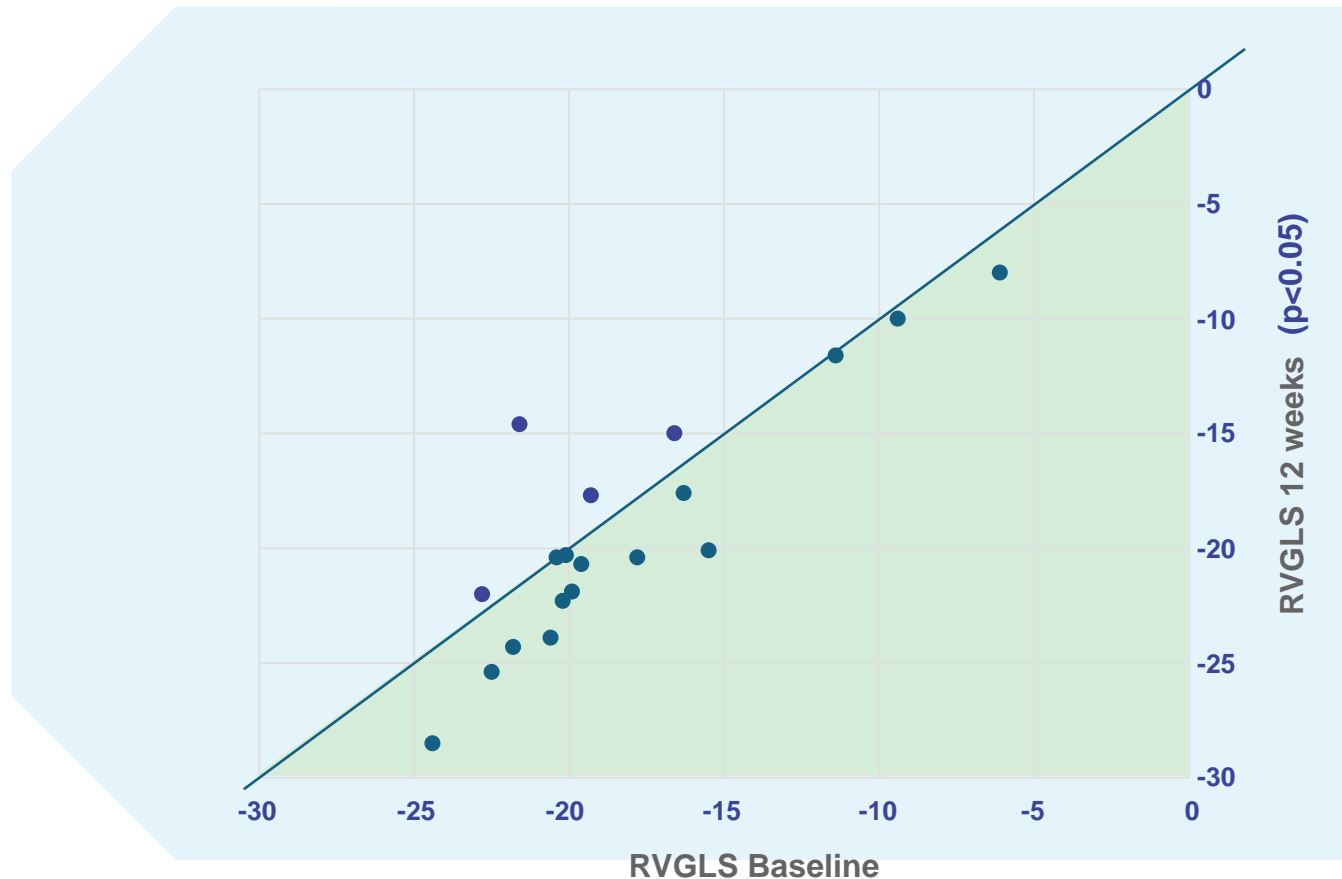
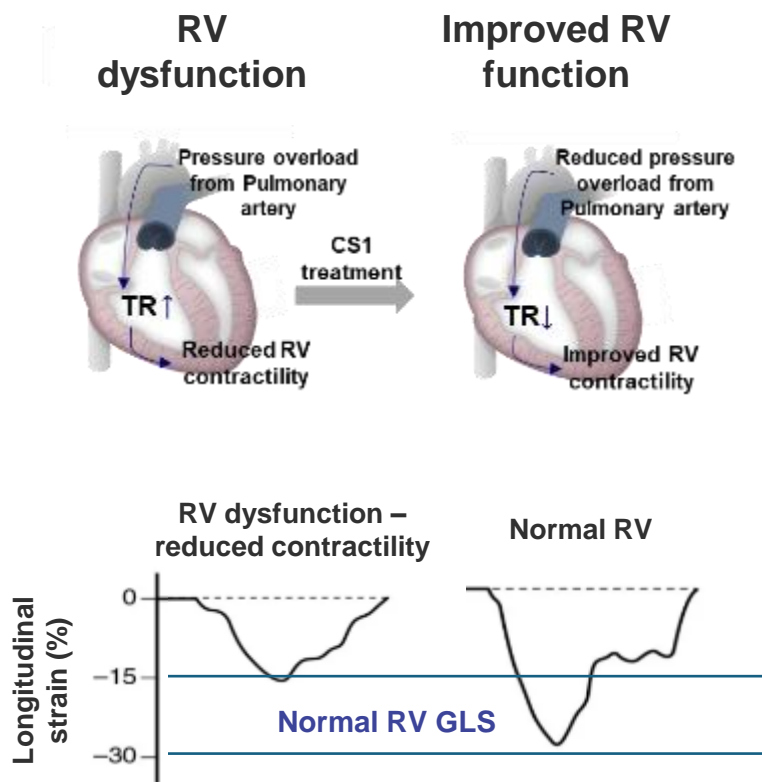
■ Improvement ■ Stable ■ Worsening

Analysis of Per protocol (PP) set. For the REVEAL risk score, values were updated according to investigators' reporting. Improvement: At least 1 point reduction in REVEAL risk score. Worsening: At least 1 point increase in risk score.

Percentages are rounded; as a result, the sum of the individual numbers does not always add up to 100%. Results are for per protocol patients.

# CS1 – Improved RVGLS, a strong predictor of mortality in PAH

Improved right ventricular Global Longitudinal Strain (RVGLS) from baseline indicating better right ventricular (RV) function




Improvement or stabilization

# CS1 - Key regulatory designations provide accelerated development pathway and market exclusivity

## Regulatory Endorsements

 **Orphan Drug Designation**  
US: 2020 / EU: 2024


Regulatory authorities recognized CS1 potential to significantly benefit patients

 **FDA Fast Track Designation**  
2025

For serious condition with unmet medical need; rolling review eligibility - Emphasized the confidence in CS1

 **Expanded Access Program (EAP)**

Compassionate use; real-world data being collected – Emphasized physician and patient confidence in CS1

 **FDA's recent call for Drug Repurposing & focus on rare diseases**

FDA's Rare Disease Innovation Hub prioritises repurposed compounds with known safety profiles

## Opportunities:

 **Accelerated development and review**

 **7/10 years market exclusivity in US/EU**

 **Rare Disease and Repurposing drugs – increased regulatory focus**

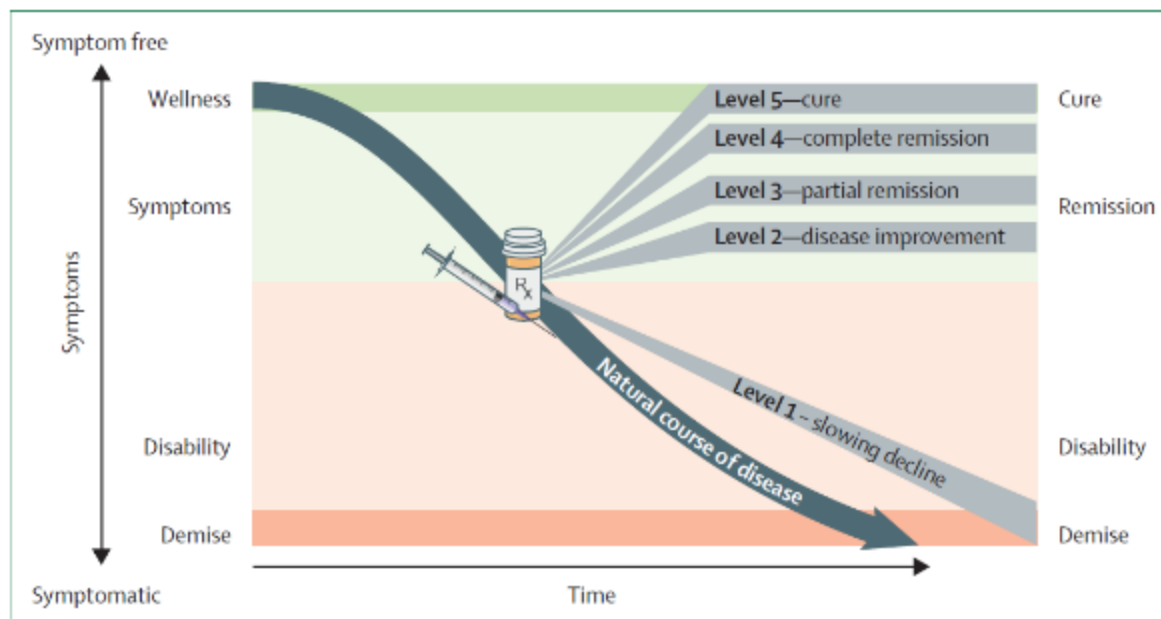
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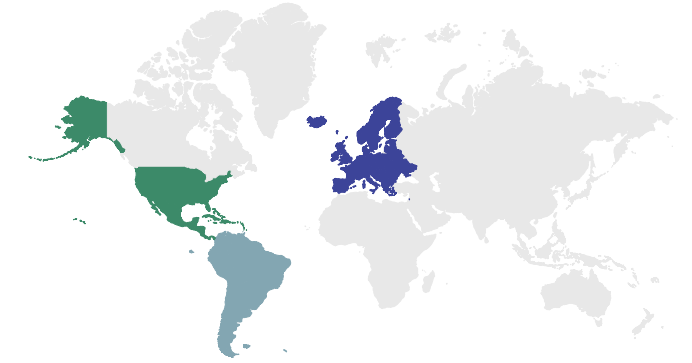
THE LANCET  
Respiratory Medicine

Levels of clinical response in pulmonary arterial hypertension



**CS1's Phase IIb trial design is fully aligned with evolving regulatory expectations**

# CS1 Phase IIb global PAH trial



Solidify earlier signals and produce robust results



126 patients



65 sites



10-12 countries



Start: June 2026 – FPI (US)

Top-line results: Q4 2028

# Clinical Steering Committee: Top global KOLs guiding robust trial design and execution

- Leading clinicians and experts in pulmonary arterial hypertension
- Extensive experience in designing and conducting late-stage clinical trials
- Have contributed to development/ approval of PAH therapies currently in use

Chair / PI



**Prof. Marc Humbert,**  
*Université Paris-Saclay,  
Paris, France*

Co-Chair



**Sandeep Sahey**  
*Houston Methodist Hospital,  
Houston, USA*



**Deepak Bhatt**  
*Icahn School of Medicine  
at Mount Sinai, New  
York, USA*



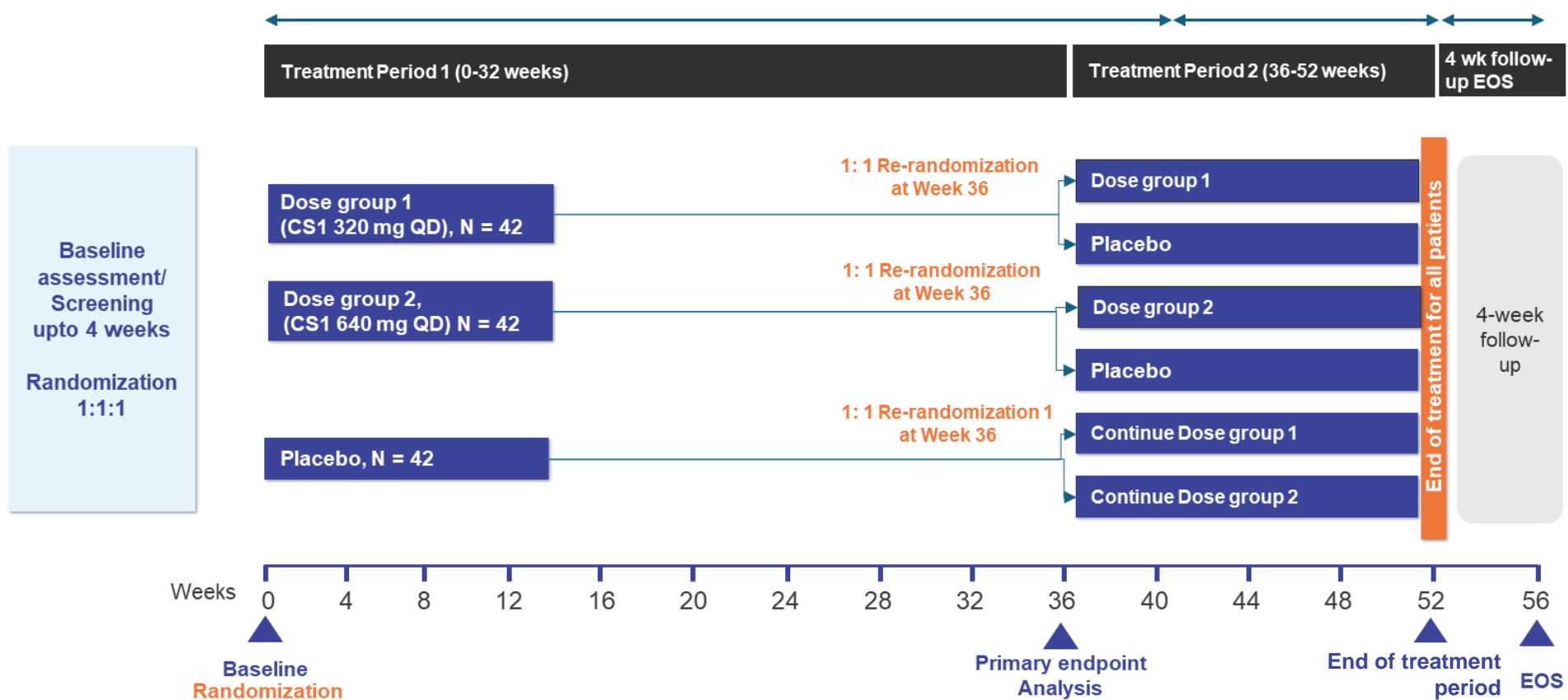
**Gisela Martina  
Bohns Meyer**  
*Santa Casa de Porto  
Alegre, Brazil*



**Göran Rådegran**  
*Skane University hospital,  
Lund, Sweden*

# CS1 Phase IIb global PAH trial design

A Phase 2b, Double-Blind, Randomized, Placebo-Controlled, Dose-Finding Study, to Compare the Efficacy and Safety/Tolerability of CS1 Versus Placebo When Added to Standard of Care for the Treatment of Pulmonary Arterial Hypertension (PAH)



Primary endpoint: Change from baseline in PVR, assessed by RHC

June 2026  
First Patient In (FPI)

Q4 2028  
Topline Results

Longer treatment period + drug withdrawal period to document disease modification

# Backed by World's Largest PH Patient Network – strengthens drug development and reduce clinical execution risk



International umbrella organisation representing patients living with pulmonary hypertension worldwide

40+ associations in Europe

## Why does it matter?



**Patient-Informed Trial design**  
reduces dropout risk



**Expands Patient Reach**  
Access to geographically diverse patient base critical for global trial



**Global Disease Awareness – Faster enrollment**



**Positions favorably with regulatory authorities and potential partners**

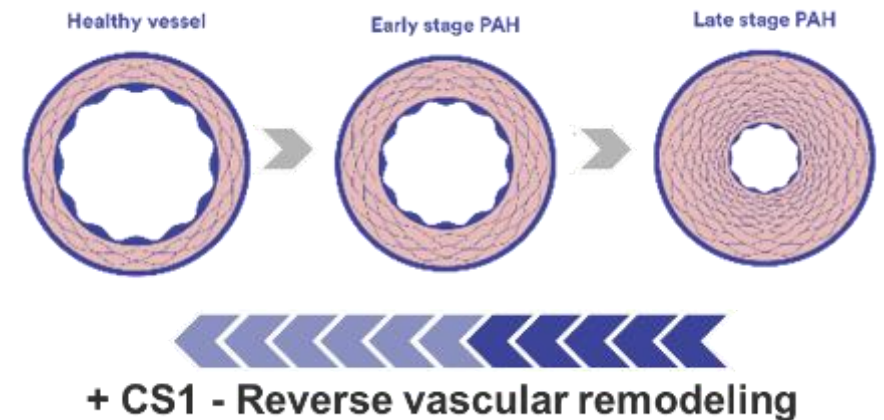


**Signals Commercial Readiness - hallmark of late-stage-ready biotechs**

## CS1's value proposition - Disease-modification treatment in PAH

- First-in-class HDAC inhibitor
- Once daily oral formulation
- Good safety and tolerability profile
- Phase IIa data with disease modification signals
- Combinable with SoC
- Orphan Drug Designation (ODD) in US & EU
- FDA Fast Track designation
- Patent protection through 2045/46

### Pathological vascular remodeling in PAH



### Positive impact on

- Cardiovascular function
- Quality of life
- Prognosis

# CS014 - Next- Generation HDACi,

**Pulmonary Hypertension associated with  
Interstitial Lung Diseases (PH-ILD) – Lead  
Indication**

- Precision-designed epigenetic modulator
- Optimized PK/PD
- Positioned for broader pulmonary population
- Potential for multiple indications



# CS014 – First-in-Class Disease-Modifying Therapy for PH-ILD

## Phase II initiation targeted for Q1 2027

### CS014 Profile

- Next-generation HDACi
- Oral once-daily
- Improved safety profile over earlier HDAC approaches
- NCE IP protection (composition of matter) through at least 2045/46
- First peer-reviewed publication in Journal of Thrombosis and Haemostasis (JTH, 2025)

### Strong Phase I & Preclinical Validation

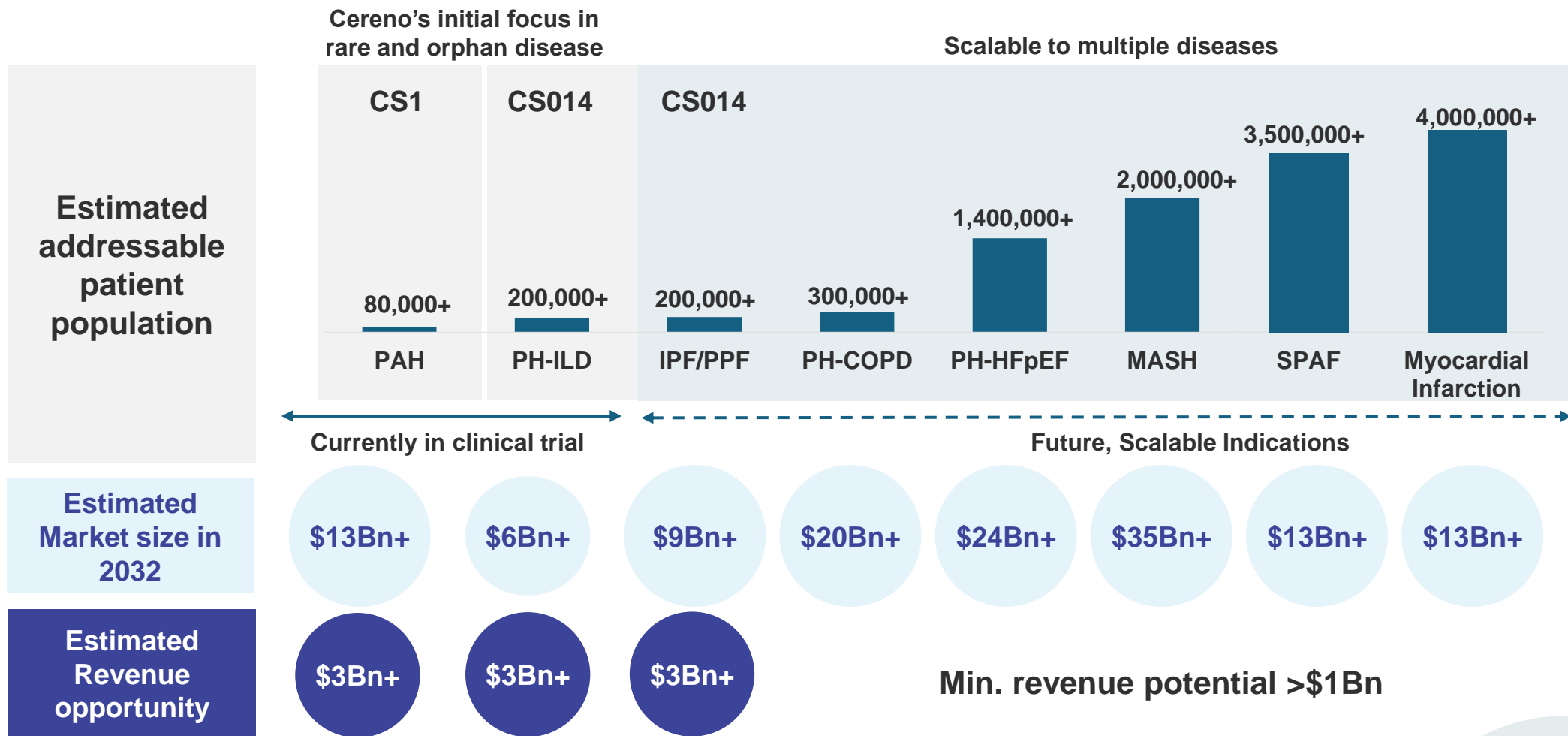
- **Vascular Remodeling**  
Sugen/hypoxia model: dose-dependent reduction in vascular remodeling and plexiform lesions
- **Anti-fibrotic**  
Significant dose-dependent reduction in fibrosis in preclinical model
- **Anti-thrombotic**  
Significantly reduced clot and fibrin formation in multiple thrombosis models — published in JTH (2025)
- **Phase I Safety and Tolerability**  
All AEs - mild, transient, fully recovered

Sources: Stanger et al, Novel histone deacetylase inhibitor, CS014, attenuates in vivo thrombosis while maintaining hemostasis. J. Thrombosis and Hemostasis 24( 3): 1042-1055, 2026 ; Oakes et.al. CS014, a novel precision deuterated valproic acid, reverses vascular remodelling in a preclinical model of pulmonary artery hypertension (PAH). British Society of Pharmacology (British Journal of Pharmacology Abstracts from Pharmacology 2025); DallAgnol et.al. Safety, tolerability and pharmacokinetics (PK) of the novel HDAC inhibitor CS014: A first-in-human (FIH) trial. , British Society of Pharmacology (British Journal of Pharmacology Abstracts from Pharmacology 2025)

# HDACi Pipeline Strategic Focus and Potential



# Epigenetic HDAC inhibitor pipeline is applicable in multiple diseases, addressing shared pathological pathways






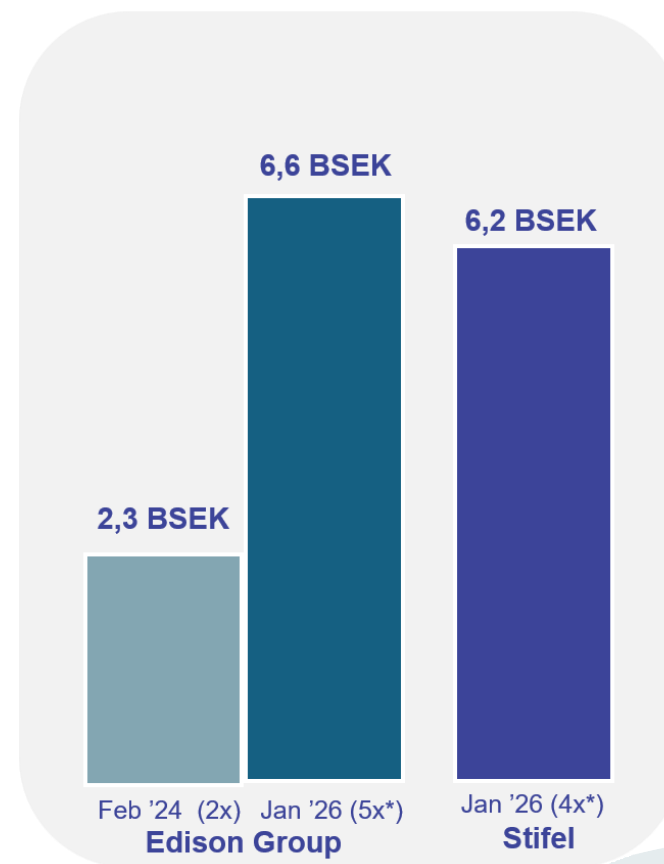
Science & Pipeline

# Pioneering treatments in diseases with high unmet needs

# Cereno delivered on all fundamental R&D milestones for value inflections in 2025 and Q1 2026

- ✓ Strengthened validation of our clinical HDACi platform
- ✓ Positive Phase IIa data readout for CS1 in PAH
- ✓ Expanded Access Program (EAP) completed, met its primary endpoint of safety and tolerability
- ✓ FDA Fast Track Designation for CS1 in PAH
- ✓ FDA green light for CS1 Phase IIb trial
- ✓ Collaboration with PHA Europe & Global 
- ✓ Successful completion of a Phase I study for CS014
- ✓ CS014 – broader development focus – Pulmonary Hypertension associated with Interstitial Lung Disease (PH-ILD)
- ✓ Initiation of CS014 Phase 1 PK Bridging study – expected to remove the need for additional nonclinical safety studies and a Phase IIa trial
- ✓ CS585 – initiation of preclinical evaluation in rare thrombotic disease – Antiphospholipid Syndrome (APS)
- ✓ Increased scientific footprint and collaboration network
- ✓ Initiation of coverage by Stifel

Sector Analyst  
Current valuation – 6.2 – 6.6BSEK

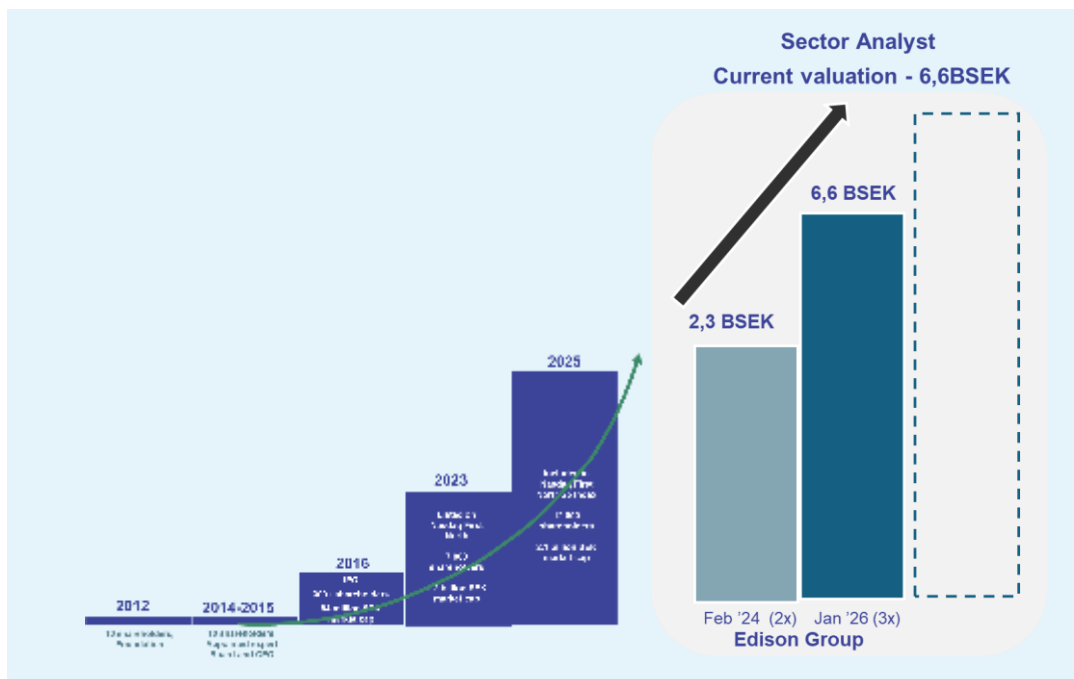


# Significant future value creation opportunity

Gap/lag between biotech analyst and retail market valuation

Market cap – SEK 1.7 Bn

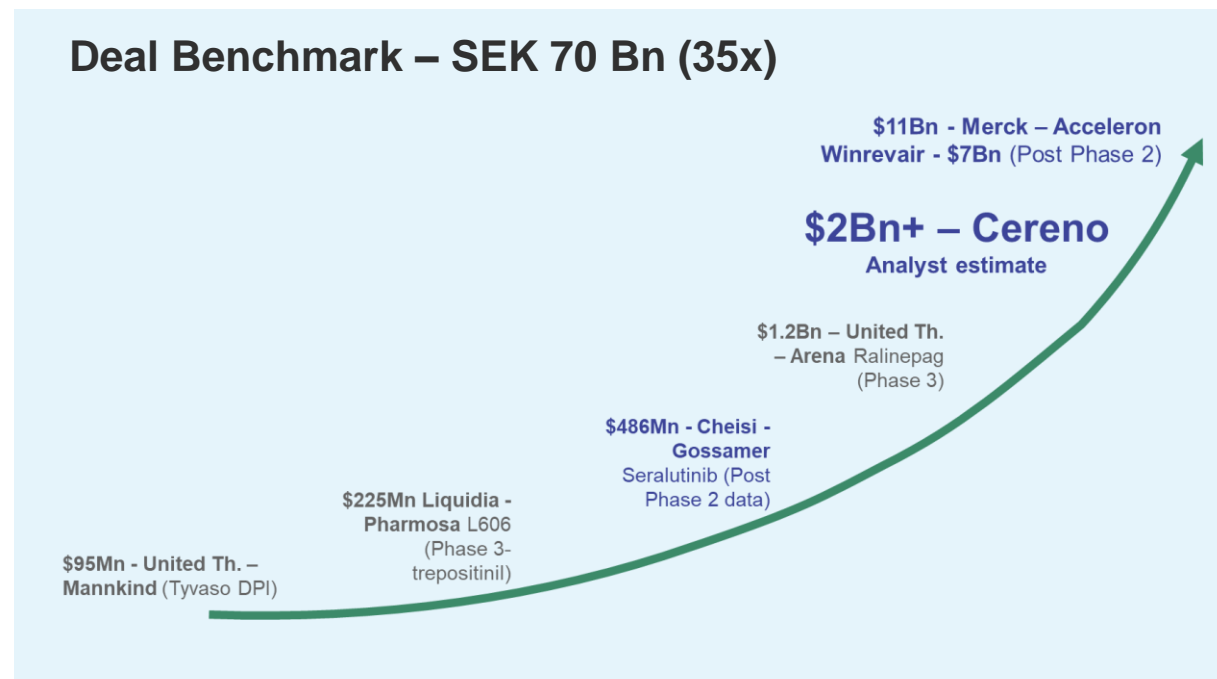
Analyst valuation – SEK 6.8 Bn (4x)



Significant value creation opportunity as indicated by Analyst and Market Deal Benchmarks

Analyst Deal est. post Ph2b – SEK 20 Bn+ (10x)

Deal Benchmark – SEK 70 Bn (35x)



## Disciplined execution on near-term value-creating milestones

### ➤ CS1 EAP and EAP sub-study with Fluidra

- ✓ EAP 12 months data - March 2026
- EAP 12 months data, further analyses – June 2026

### ➤ CS1 Phase IIb trial

- 1st site initiation and 1st patient recruitment – June 2026
- EMA and South America approval – Q3

### ➤ CS014

- Submit and obtain IND approval from FDA – Q3/Q4 2026
- Submit and obtain Phase IIb PH-ILD trial acceptance from FDA – Q3/Q4 2026

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# Thank you for Building Something Worth Recognising — Together

**Proud Moment  
from 2025**

Nominated as a  
finalist for the  
“Company of the  
Year”

Nominated as a  
finalist for the “CEO  
of the Year



**Cereno Scientific**

**Ahead of the Curve –  
Changing the Treatment  
Paradigm of  
Cardiopulmonary Diseases**

**Questions from  
audience**





**Cereno Scientific is pioneering treatments to enhance and extend life. Our innovative pipeline offers disease-modifying drug candidates to empower people suffering from rare cardiovascular and pulmonary diseases to live life to the full.**

**Headquartered in Gothenburg, Sweden, and US subsidiary in Kendall Square, Boston. Cereno Scientific is listed on the Nasdaq First North (CRNO B).**

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