

# Disrupting Neurodegeneration with Cell-Based Precision



**HOPE Neuron**  
Therapeutx

| A non-drug, immune-reprogramming  
device-enabled platform for ALS and  
autoimmune neurodegenerative diseases.

July 2025



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# ALS is brutal

## Current treatments don't stop the clock

every 90

minutes, someone is diagnosed—and  
someone dies—from ALS.

2-5

years median survival

90%

of ALS cases are sporadic with no known  
cause.

### Why is HOPE Neuron Different?

A Breakthrough Approach to Neurodegenerative  
Disease

- Non-drug, non-stem-cell, immune-reset platform
- Root-cause targeting, not symptom suppression
- Scalable, outpatient, sterile/disposable, precision controlled closed-loop therapy
- Backed by science, protected by global IP





# Our Breakthrough: SELANetx™ + Apoptogenic Immune Modulation (AIM) Platform

We're not treating symptoms. We're resetting the immune system

- SELanetx™ is a 30-minute, outpatient, blood-processing therapy.
- Uses hyperoxia and mechanotransduction to trigger apoptosis.
- Restores immune balance by shifting M1 “killer” cells to M2 “healer” cells.

Stressing device enabled  
mechanotransduction enhanced  
hyperoxia induces Apoptosis



*Apoptotic cells (ACs) secrete “find me” signals  
for their removal*



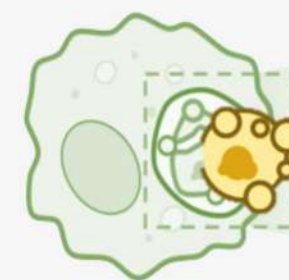
M1 macrophage killer cells attract  
and “eat” (phagocytize) ACs



*Phagocytized ACs digested to recycle phlogistically  
i.e. A noninflammatory*



Phagocytized ACs signal an M1-  
killing to M2-healing cell  
homeostatic shift



*M1 - M2 shift coined Efferocytosis,  
Effero: “to the grave”*



# How It Works

A closed-loop system designed to teach the body to heal itself.



Draw



Process



Reinfuse

1. Whole blood drawn (~300mL) in sterile disposable vials
2. Hyperoxic stress triggers apoptosis
3. Treated reinfused blood stimulates efferocytosis and immune rebalancing

## PROBLEM

Disease Induced Dysregulation

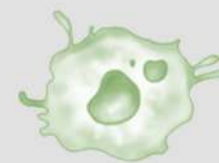
Over Expressed



M1 ↑

### M1 Functions (Killer)

- Pro-inflammatory
- Neuronal Tissue destruction

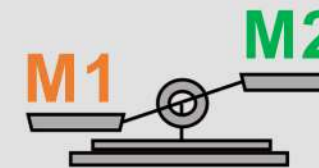


M2 ↓

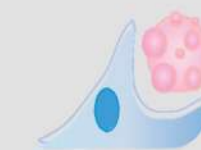
### M2 Functions (Healer)

- Anti-inflammatory
- Re-regulation
- Neuron regeneration

## SOLUTION



Apoptotic-Cell Efferocytosis



Macrophage



M1-M2 Ratio rebalancing  
EXTENDS PATIENT LIFE





# Proof of Concept: Preclinical Results

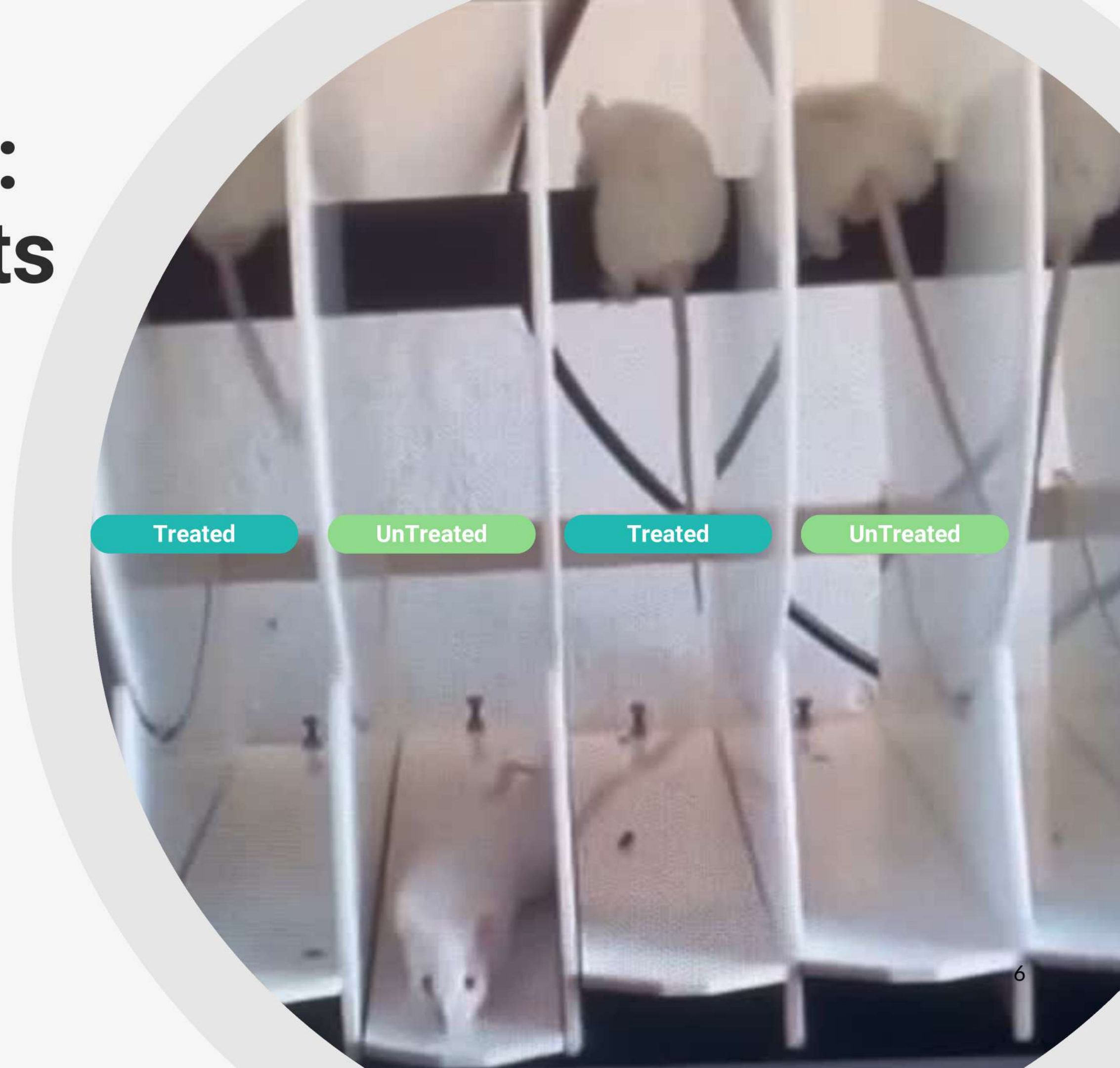
From preclinical to pivotal: It works -  
and fast

Mice treated with SELanetx™ preserved  
significant motor function

Confirmed M1 → M2 immune shift ( $p < 0.008$ )

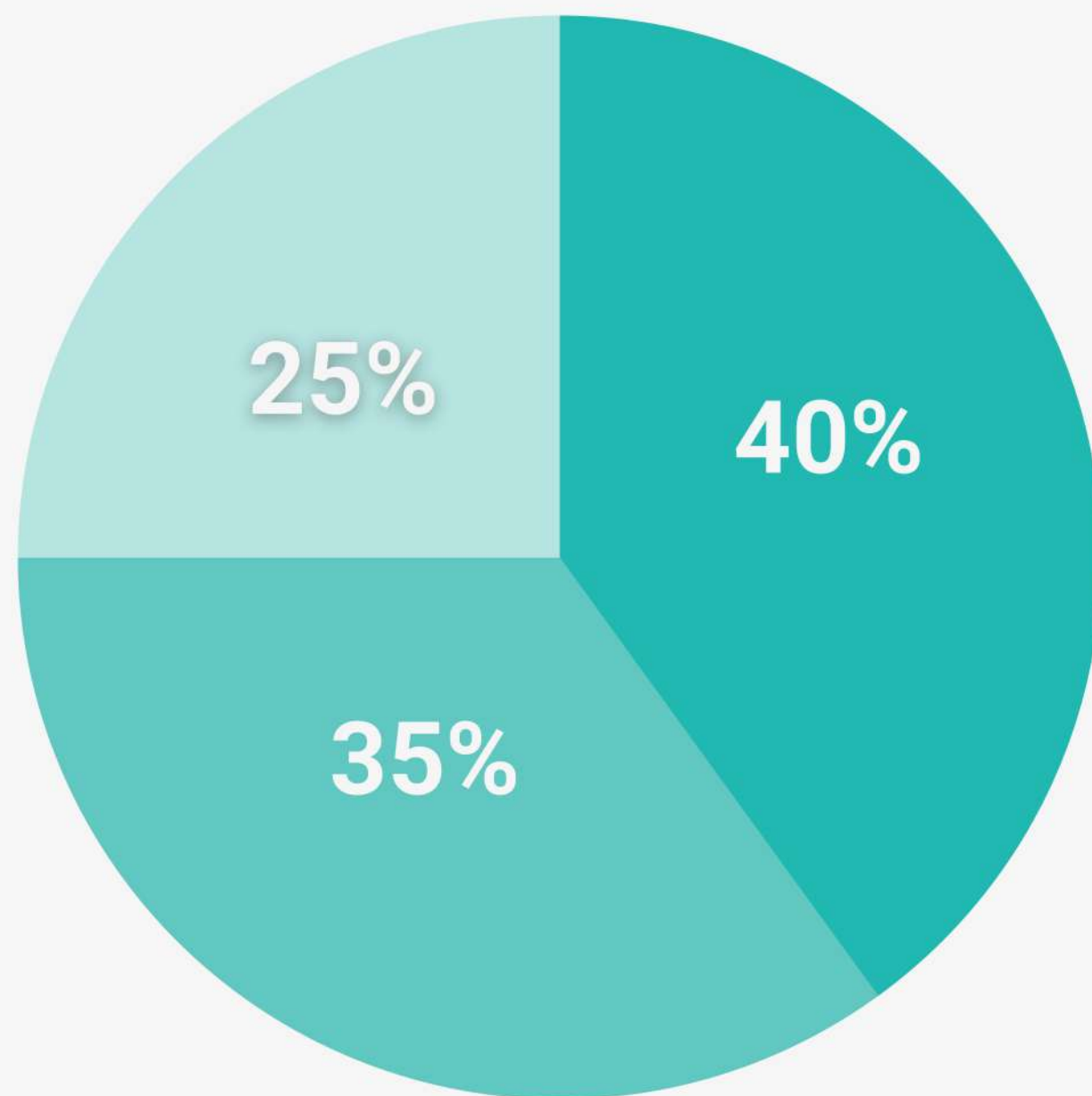
Untreated ALS mice fell off treadbar - SELanetx™  
-treated mice continued to live and run, run, run

**We didn't just slow decline,  
*we reversed it***



# Business Model + Revenue Structure

Treatment-based partnership model model built for global scalability.



## Projected revenue allocation

40% Hope Neuron\*

35% Provider

25% Distributor \*

*\*includes:*

- *Recurring revenue from consumables and disposables*
- *Optional licensing model for global partnerships*





# Why Now?

From Treadbar to Trial: The Moment is Here

- IRB Human trial partners identified and in place: Banner, Barrow, Indiana University School of Medicine
- Transgenic mouse (n=10 ALS) budgeted at \$550–\$600K
- First Step - Reg CF will fund commercial launch
- Second Step - Reg A+ will provide up to \$75M for corporate development and commercialization

**SELanetx™**





# Market Opportunity

HOPE-Neuron's addressable market (ALS, MS, PD) is worth up to \$68 billion

## HOPE-Neuron's Allocation Critical Path Sensitivity

Assumed Prevalence: **ALS 34,000** 2-3 yrs  
**MS & PD 1,000,000** 5-10 yrs  
**Alzheimer's** 8-12 yrs.

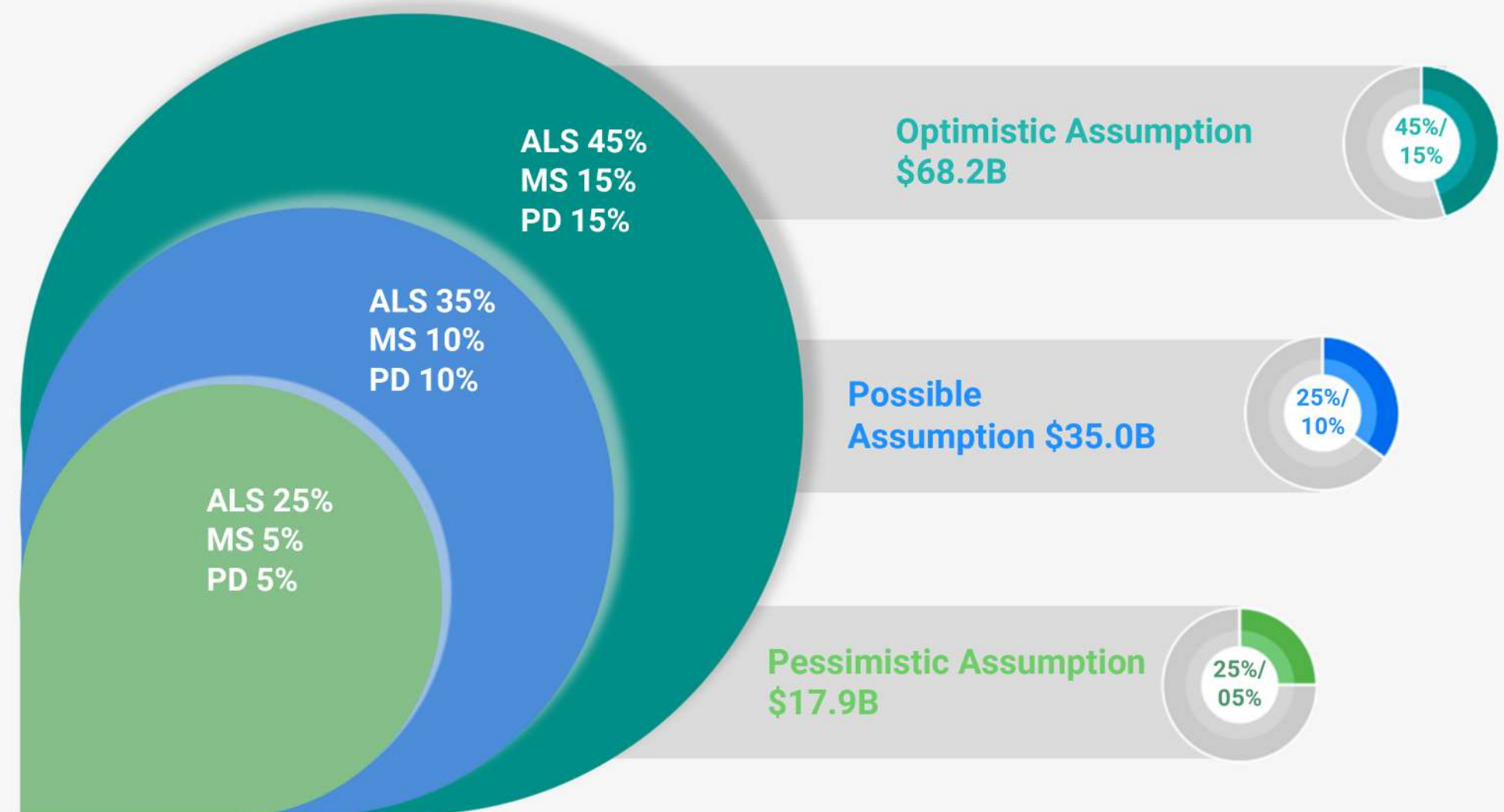
## Projected Revenue Allocation

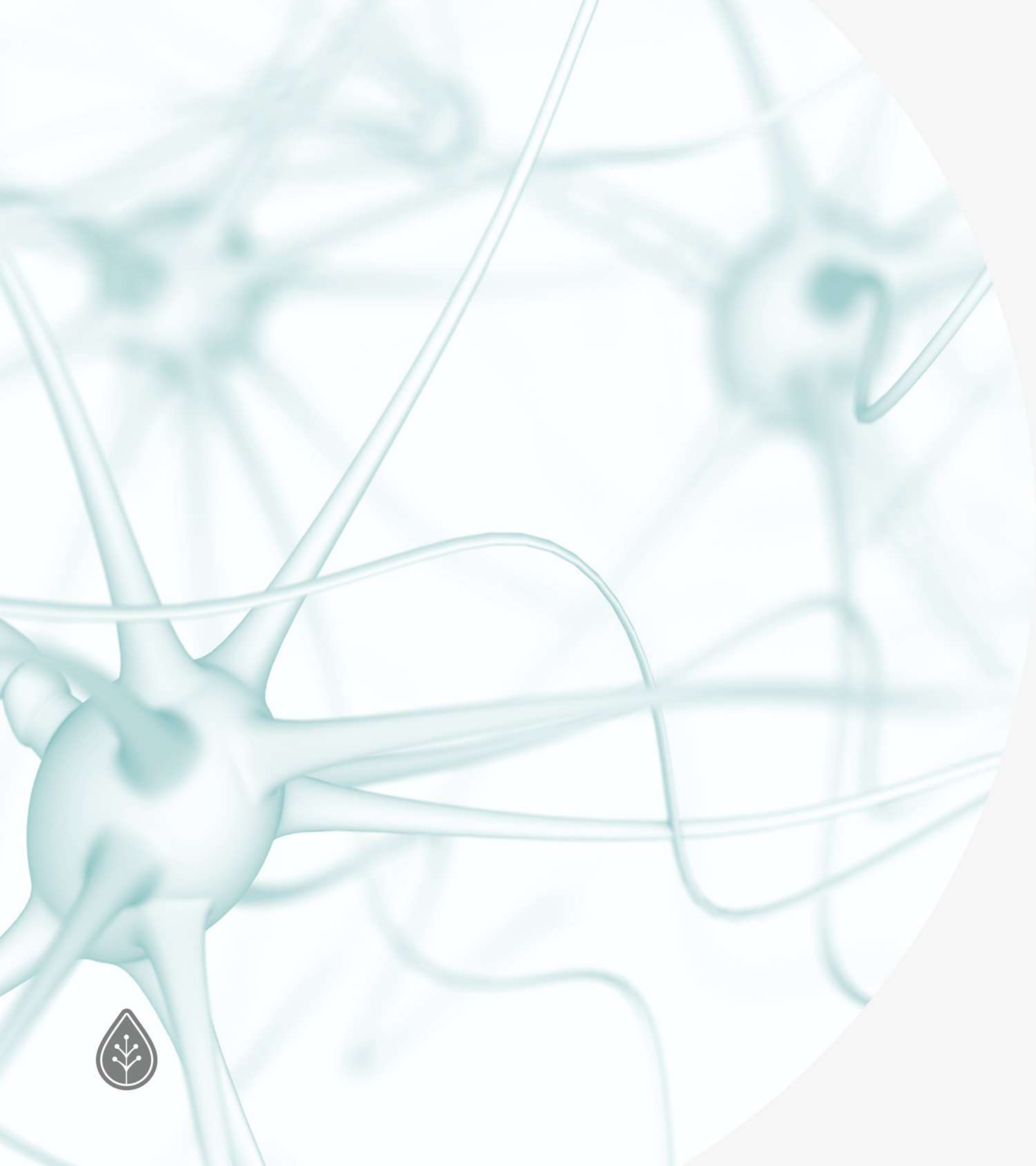
- 40% HOPE-Neuron
- 35% Provider
- 25% Distributor

## Additional Opportunity

Including Alzheimer's (a future target) would increase revenue projections by as much as 3X

## SELanetx™ Total Gross Revenue Potential & Market Penetration





# Competitive Landscape

The first non-drug, immune-reset platform for ALS

## Overview

- Pharma has spent over \$2B failing to deliver a durable ALS solution
- Amylyx, Biohaven, UCB, Clene, Denali, PTC, and Corcept all failed endpoints (2024–2025)
- Last approved ALS therapy (Relyvrio) reached a \$400M annual run rate after just four quarters of commercialization.

## Closest Technology Comparison: Therakos

- FDA approved, \$270M in annual revenue
- Sold for \$1.3B (2015) and \$925M (2024)
- No overlap with HOPE-Neuron's target markets, inferior technology, significant side effects from drug component

**HOPE-Neuron is drug-free, scalable, and rooted in immune reset**



# Science to HOPE

Built for Scale - Ready for the Clinic

## Discovery Phase pre 2022

- Identified immune dysfunction as a key driver of ALS progression
- Developed SELanetx™ to rebalance immune activity
- Secured early seed funding
- Fabricated and tested first-generation device (v1.0)
- SOD1 ALS mouse trials showed 40% motor function improvement
- Developed AIM® platform for immune modulation
- Filed initial and secondary IP

## Proof of Concept 2023-2024

- Fabricated and validated SELanetx™ device v1.0
- Validated M1-to-M2 immune shift in ALS mouse models
- Secured IRB collaboration with Indiana University
- Began planning with Gregory W. Fulton ALS Clinic (Barrow Institute)
- Expanded research scope to include Multiple Sclerosis and Parkinson's
- Engaged ethics boards to support compassionate-use trial design
- Initiated conversations with device manufacturing partners

## Path to Scale + Commercialization 2025

- Complete ALS transgenic pilot (n=10 ALS mouse models)
- Finalize IRB and dosing optimization
- Begin engineering partnership for next-gen device
- Expand trials to MS, Parkinson's, and Alzheimer's

## Expansion 2026

- Submit FDA application for approval of SELanetx™ for ALS
- Launch commercial-ready disposable kit system
- Prepare for broader indication expansion (MS, PD, Alzheimer's)
- Target insurance coverage and CPT code assignment





# Mission-Led. Expert-Driven



**Ronald Lane, PhD**

Founder & Executive  
Chairman

Neurobiologist and  
inventor of the  
SELanetx™ platform.



**Yansheng Du, PhD**

Lead, Preclinical  
Transgenic Research

Professor of Neurology,  
Indiana University School  
of Medicine.



**Kara Wood**

VP of Communications

Corporate  
communications expert  
and life sciences  
entrepreneur



**Mark Forney**

VP of Business  
Development

Specializing in high-growth,  
scalable technology  
applications



**Karina Fedasz**

Interim CFO

Leads regulatory and  
registration efforts.



**Greg Gosch**

COO

Start-up executive with  
biotech  
commercialization  
experience

SELanetx™





# Intellectual Property & Defensibility

Globally protected technology targeting immune modulation.

Patents granted and pending across U.S., Japan, Canada, India, Australia

Covers proprietary hyperoxia gas-fluid contact reactor and mechanotransduction process

Future filings planned for device development and optimization

U.S. Patent No. 1171579 "GAS TREATMENT DELIVERY SYSTEMS AND METHODS"/October, 2022

Japan Patent No. 75297259 "GAS TREATMENT DELIVERY SYSTEMS AND METHODS"/July, 2024

U.S. Patent No 7,736,494 B2 Method of Use "OZONE DELIVERY SYSTEM INCLUDING A VARIABLE PITCH GAS-FLUID CONTACT DEVICE"

Int'l Pat App: PCT/US2010/001785 "TREATMENT OF INFLAMMATORY DISORDERS, CARDIOVASCULAR DISEASES AND ACUTE ISCHEMIC BRAIN STROKE WITH OZONE"

Int'l Pat App: PCT/US2017/047690 "GAS TREATMENT DELIVERY SYSTEM AND METHODS" (China, India, Canada, Australia)



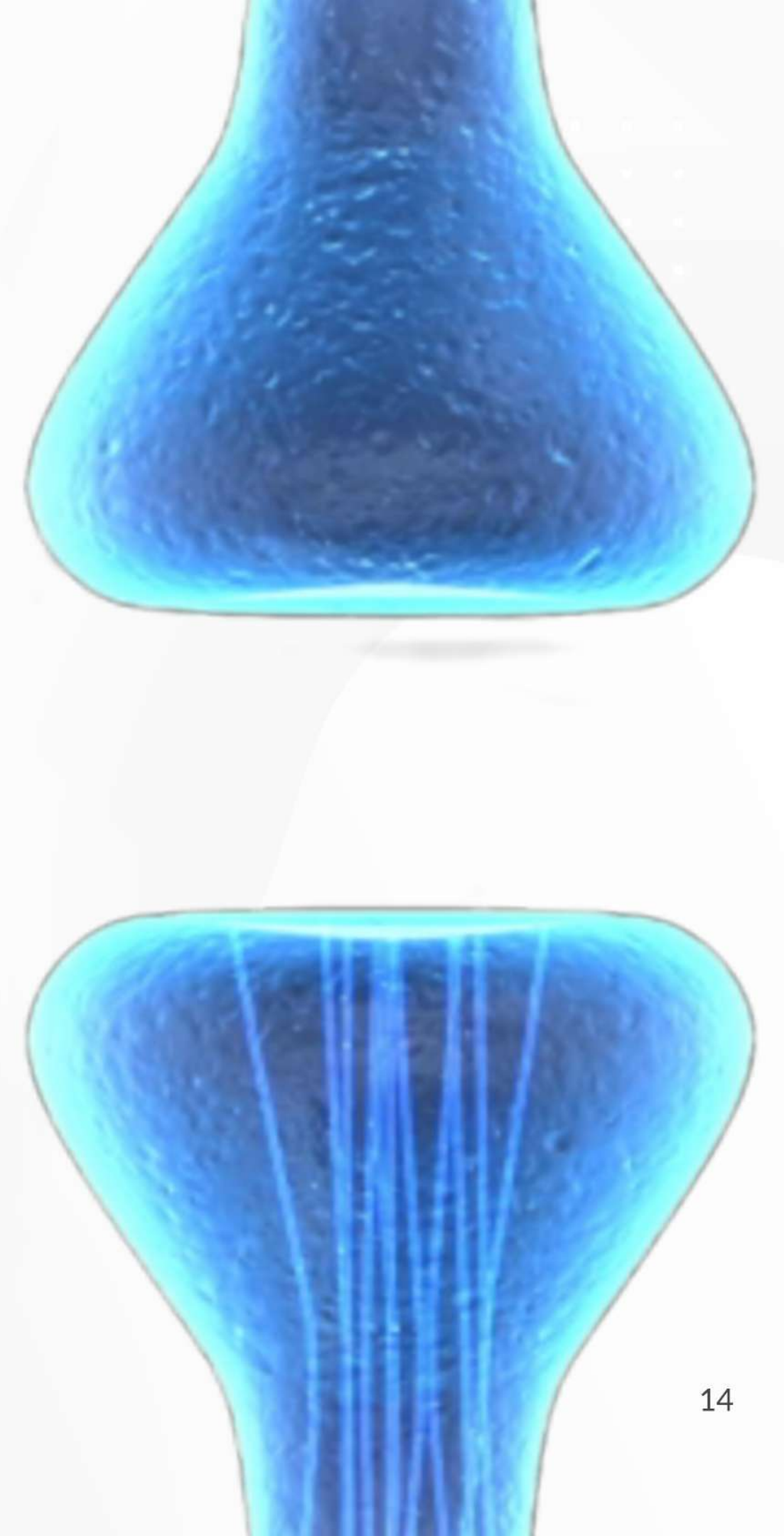


**HOPE Neuron**  
Therapeutx

# We're not selling hope. We're building it

The problem is urgent. The market is massive.  
The science is sound.

[Schedule A Meeting](#)  
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# Every 90 min we lose a life to ALS

Join us on our mission to bring new HOPE



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