

Disrupting Neurodegeneration with Cell-Based Precision



HOPE Neuron
Therapeutx

A non-drug, immune-reprogramming
device-enabled platform for ALS,
Alzheimer's, and other 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

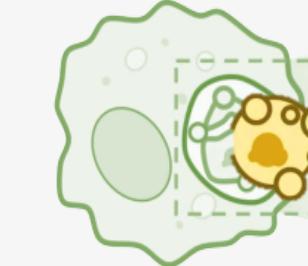


Apoptotic cells (ACs) secrete “find me” signals
for their removal

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



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



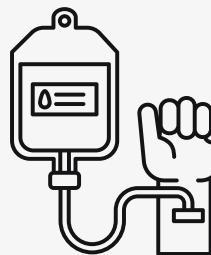
Phagocytized ACs signal an M1-
killing to M2-healing cell
homeostatic shift

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

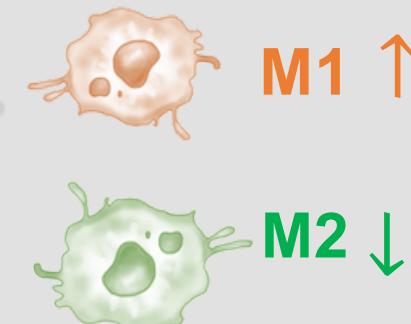


Reinfuse

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



M1 Functions (Killer)

- Pro-inflammatory
- Neuronal Tissue destruction

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

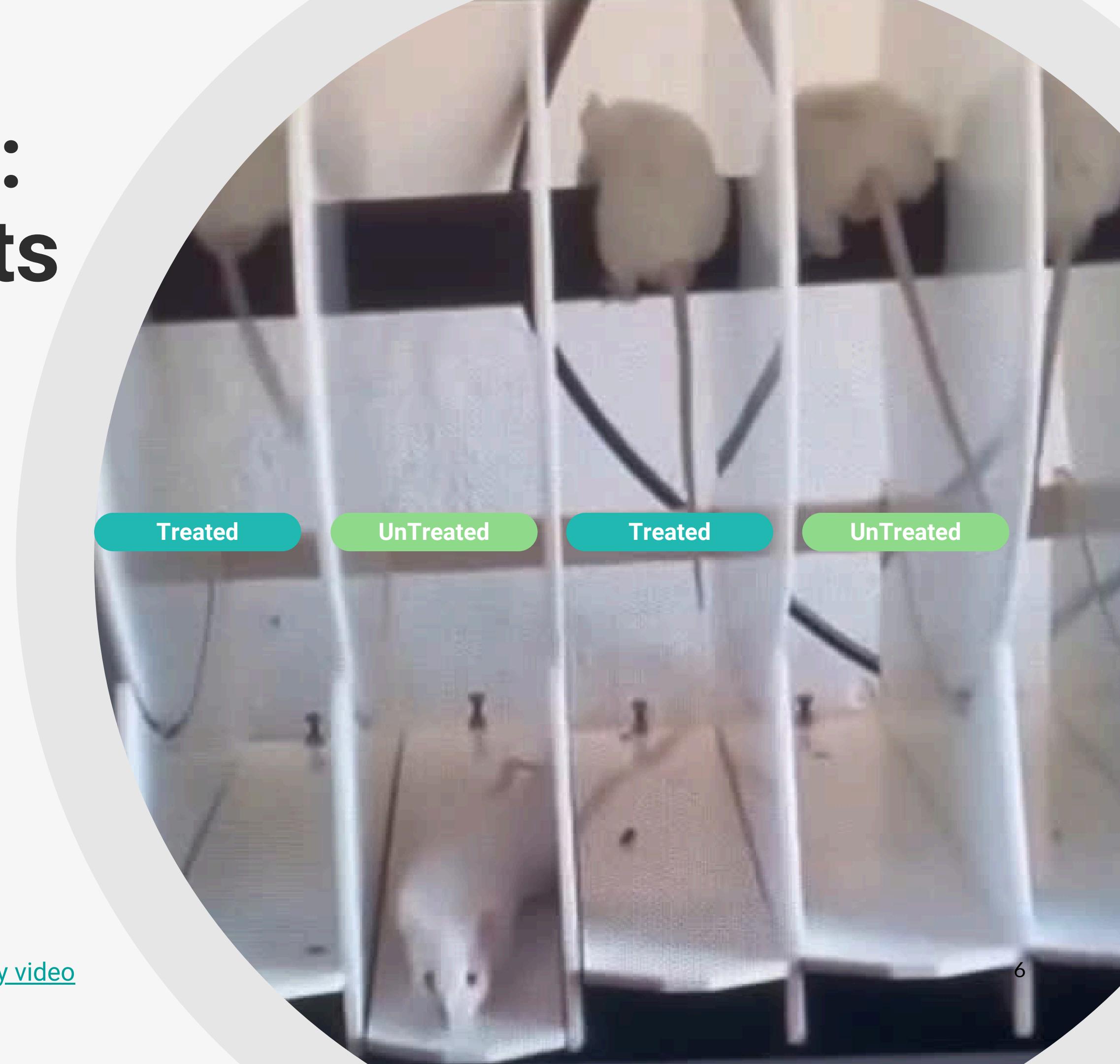
Confirmed M1 → M2 immune shift ($p < 0.008$)

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

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

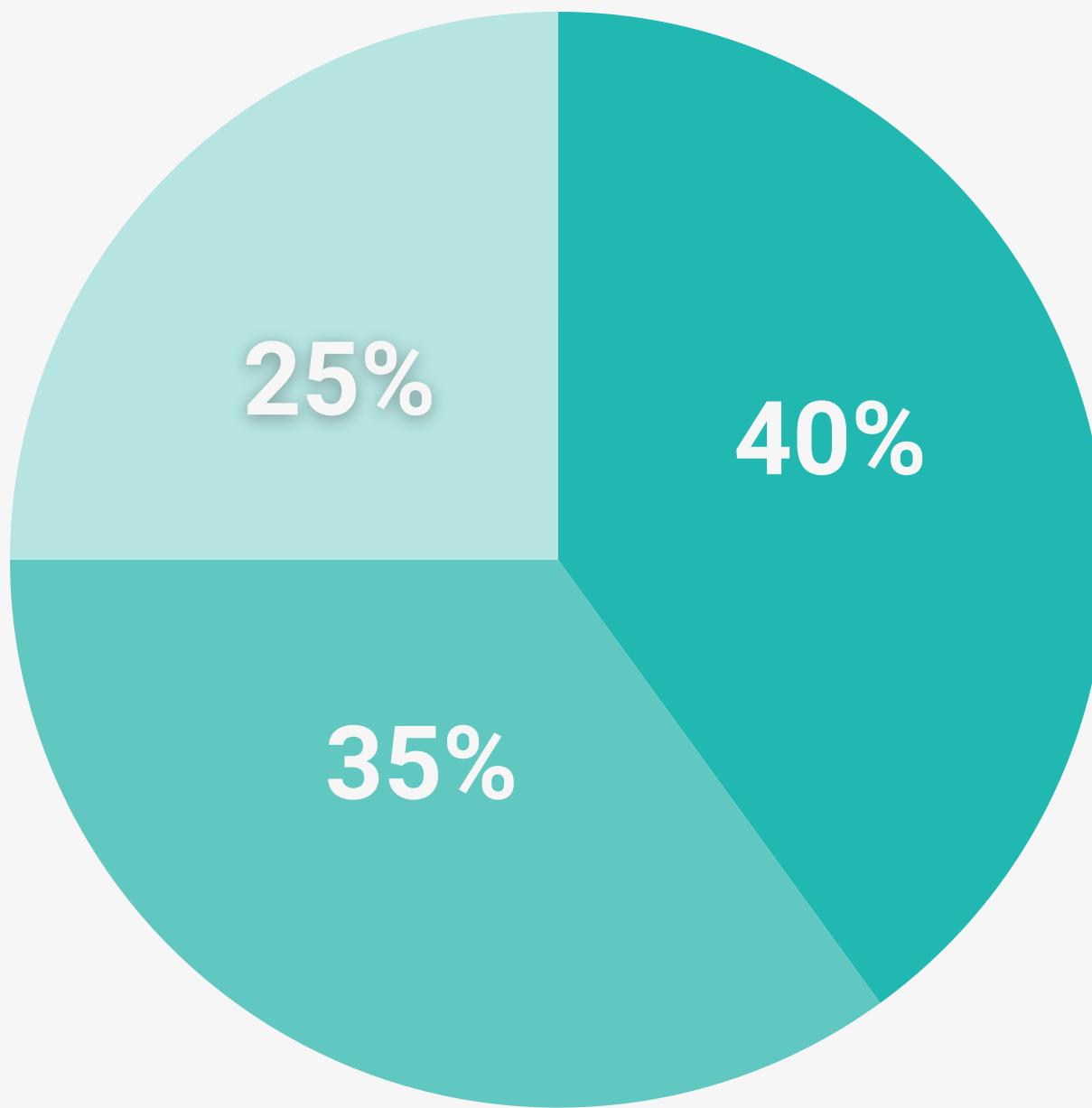


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Business Model + Revenue Structure

Treatment-based partnership 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™



 **Barrow**
Neurological Institute

 **Banner Health**

 **THE UNIVERSITY
OF ARIZONA**



Market Need & Opportunity

Our target markets (ALS, Alzheimer's Disease & Cancer): with over-lapping neurodegenerative mechanics and a combined potential revenue run-rate of \$266 billion by Dec/2028

HOPE-Neuron's Revenue Allocation & Critical Path Sensitivity

Assumed target patient population by year-end 2028:	ALS	34,000
	AD	8,000,000
	Cancer	18,000,000

Projected Revenue Allocation

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

Opportunity Timeline

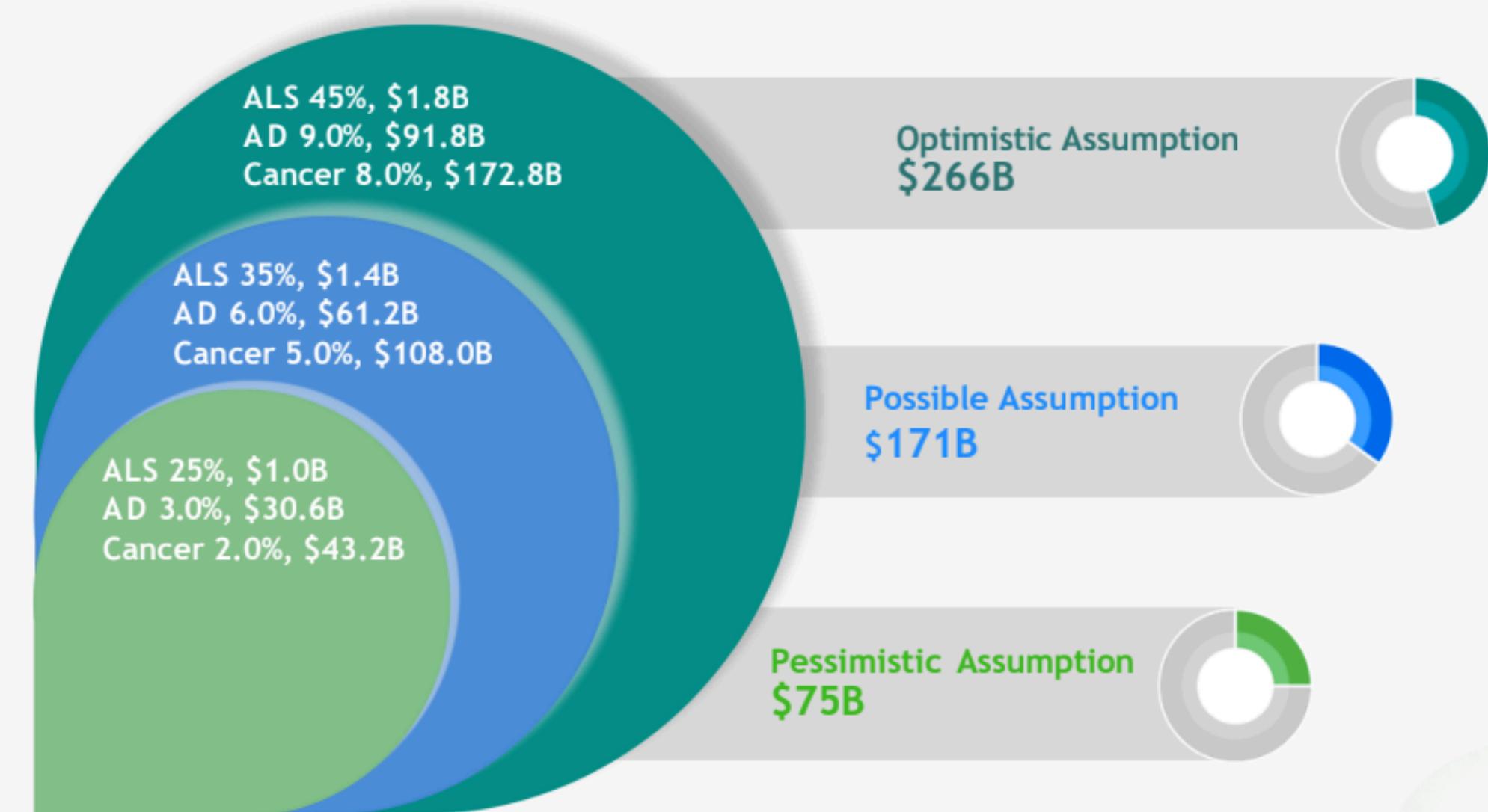
First trials target ALS (& FDA approval submission) followed by AD and Cancer - in partnership with leading US clinics

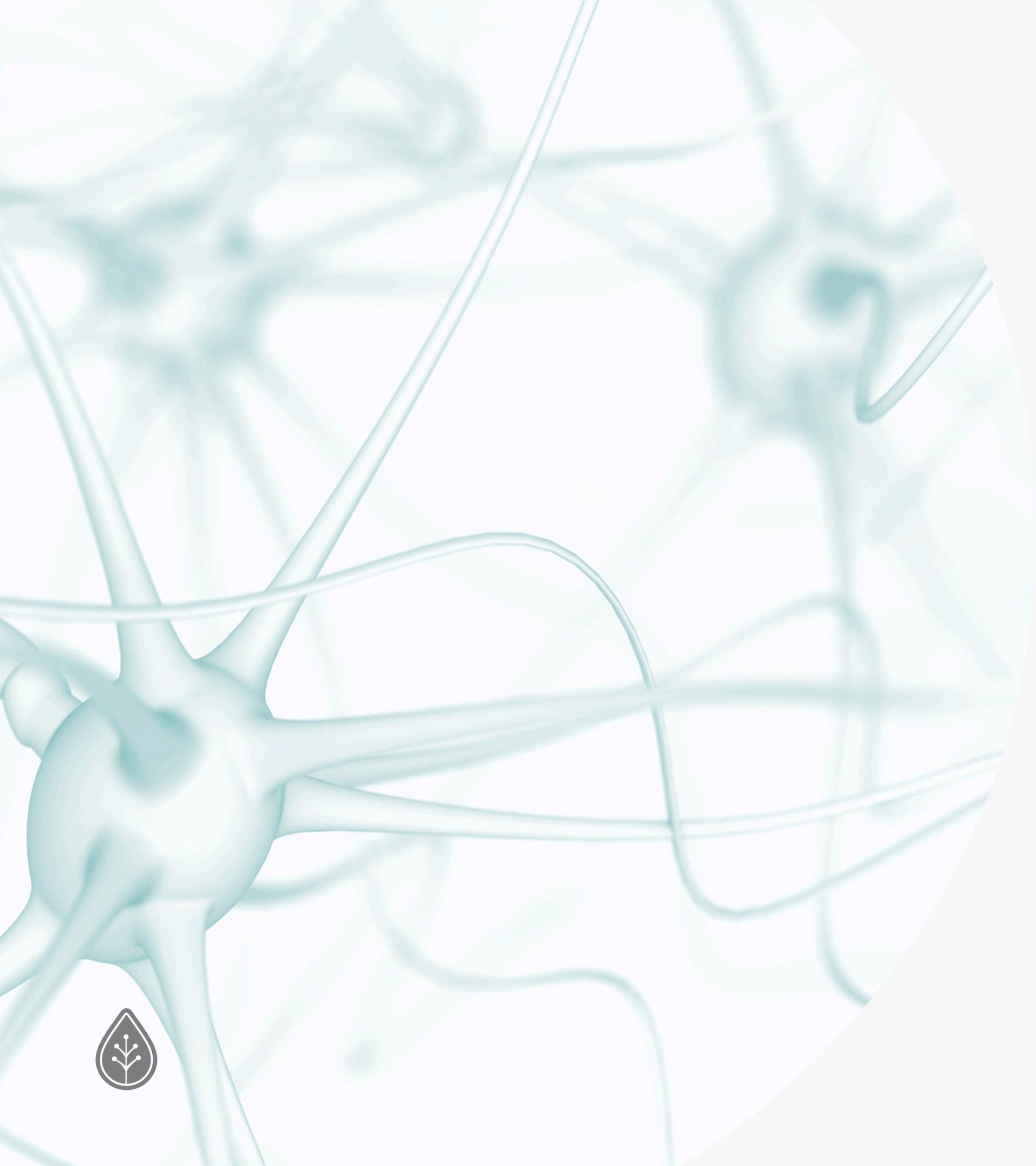
Gross Treatment Revenue

Estimated \$40,000 per treatment, 3 treatments/year, Annual Total **\$120,000 / Patient**



SELanetx™ Market Penetration Potential & Gross Revenue Sensitivity Calculation





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 Alzheimer's, cancer

Expansion 2026

- Submit FDA application for approval of SELanetx™ for ALS
- Launch commercial-ready disposable kit system
- Prepare for broader indication expansion (Alzheimer's, cancer)
- 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.



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.

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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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