Pioneering a New Class of Cell-Based Therapeutics

HOPE Neuron Therapeutx

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

July 2026

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Our Discovery: Could be the First Effective Treatment for ALS

Backed by results from our proof-of-concept mouse study, we are now just months away from human ALS trials -- where success would create a new category of therapeutics and unlock multibillion dollar market opportunities.

Our Empathy Comes from Experience

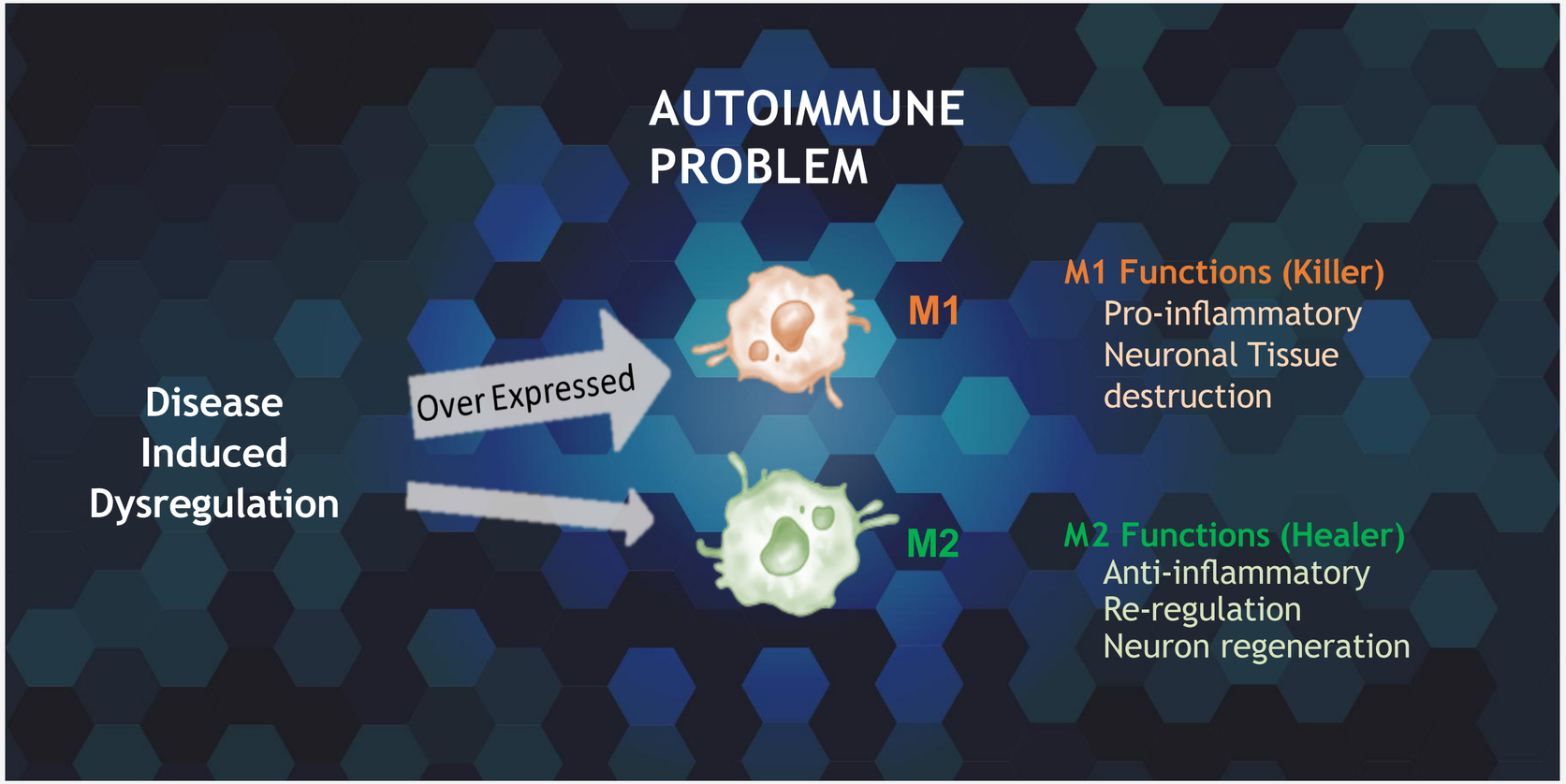
A Personal Mission

Our company has noble roots, the culmination of more than a decade of research first started by founder Ronald Lane in an effort to save his wife Sandy Elizabeth Lane from Alzheimer’s.

We honor her memory in our SELtx™ technology name, which also serves as a reminder of our personal empathy for families dealing with neurological disease.

Our Focus: Countering the Root Cause of Autoimmune Dysfunction

Autoimmune conditions share a common mechanism of action – a person's immune system mistakenly attacks the body's own healthy cells, tissues and organs.



Our Novel Solution: SELtx™

A 30-minute, outpatient, blood-processing therapy that triggers apoptosis (cell death) to restore immune balance by shifting M1 “killer” cells to M2 “healer” cells.

Draw

Process

Reinfuse

1. Whole blood drawn (-300mL) in sterile, disposable vials
2. Hyperoxic stress triggers apoptosis in our patented device
3. Treated reinfused blood stimulates efferocytosis (anti-inflammatory cell removal) and immune rebalancing

Our first target is ALS

Amyotrophic lateral sclerosis (ALS) is brutal, destroying muscle function while the mind remains intact.

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.

A condition with a famous name (Lou Gehrig's disease), one of the greatest viral campaigns in marketing history (The Ice Bucket Challenge), $2B+ spent seeking a cure, but no effective therapy.

The Defining Moment: Stunning Preclinical Results

Our ALS-infected transgenic mice study set new benchmarks.

Highlights:

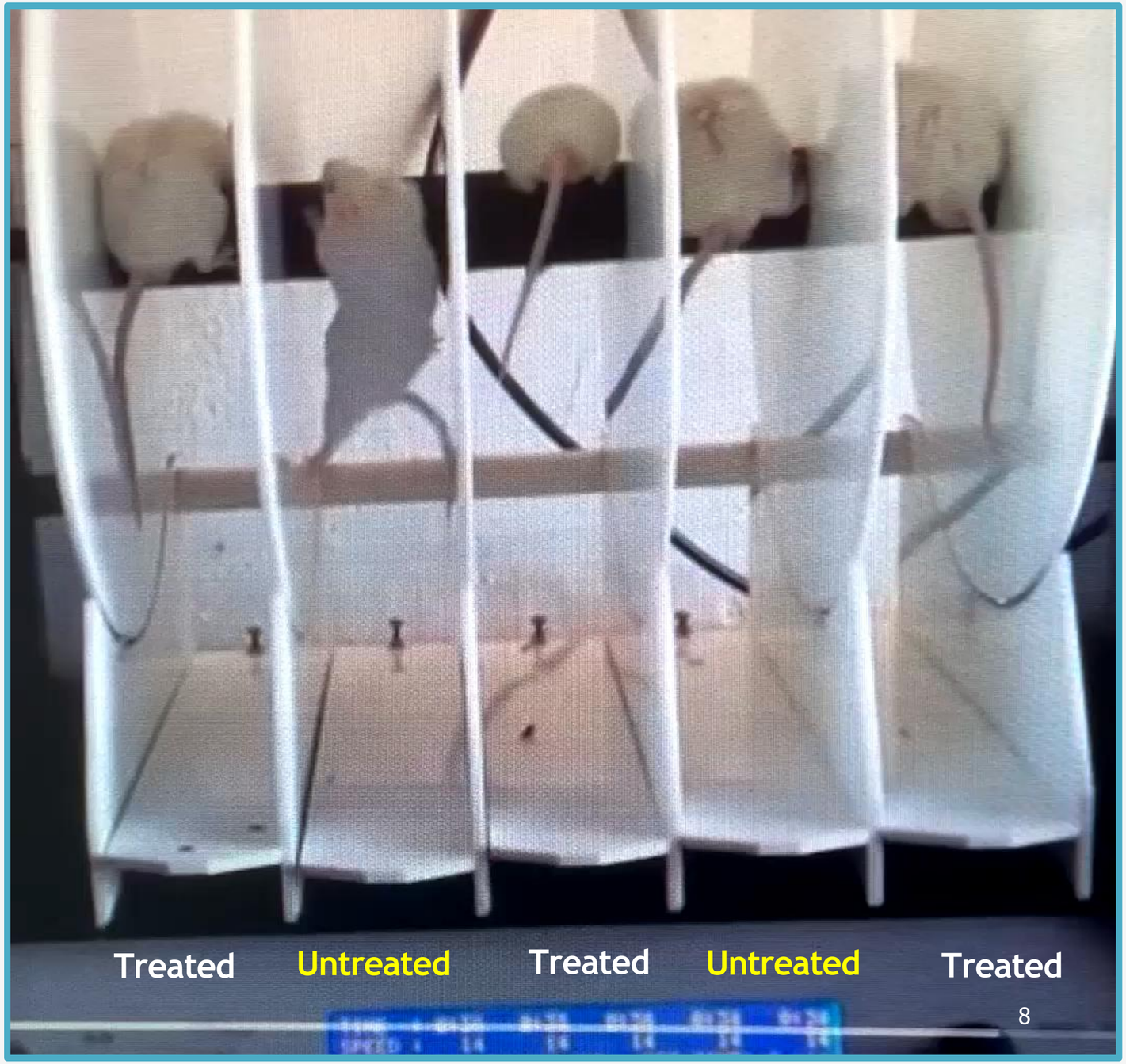
Mice treated with SELtx™ preserved significant motor function

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

Untreated ALS mice fell off the treadbar and showed disease progression

SELtx™ treated mice continued to live and run, run, run

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



SELtx™ has industry-leading potential in terms of cost, side effects and efficacy.

ALS Therapy	Annual Cost	Median Survival Benefit
SELtx™	$120,000	Est. 4+ years
Side Effects	None Identified	
Edaravone (Radicava)	$171,000	7.3 months
Side Effects	Life-threatening anaphylaxis, sulfite allergy, gait disturbance, respiratory failure, skin reactions …	
Tofersen (Qalsody) *	$185,000	3.4 years
Side Effects	Back, limb, and joint pain; fatigue, and elevated white blood cells in cerebrospinal fluid	

Tofersen is only usable in about 2% of the ALS population.

Competitive Landscape

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)
- There are currently more than 50 ALS-focused research studies targeting drug-based solutions for ALS – indicative of the urgent need.

Market Need and Opportunity

Our initial target market is ALS, with potential revenue of $1.8 billion by Dec 2028 and overlapping neurodegenerative mechanics that could lead to new indications.

HOPE-Neuron's Allocation & Critical Path Sensitivity

Assumed target patient population by year end 2028: **ALS 34,000 Patients**

Projected Revenue Allocation

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

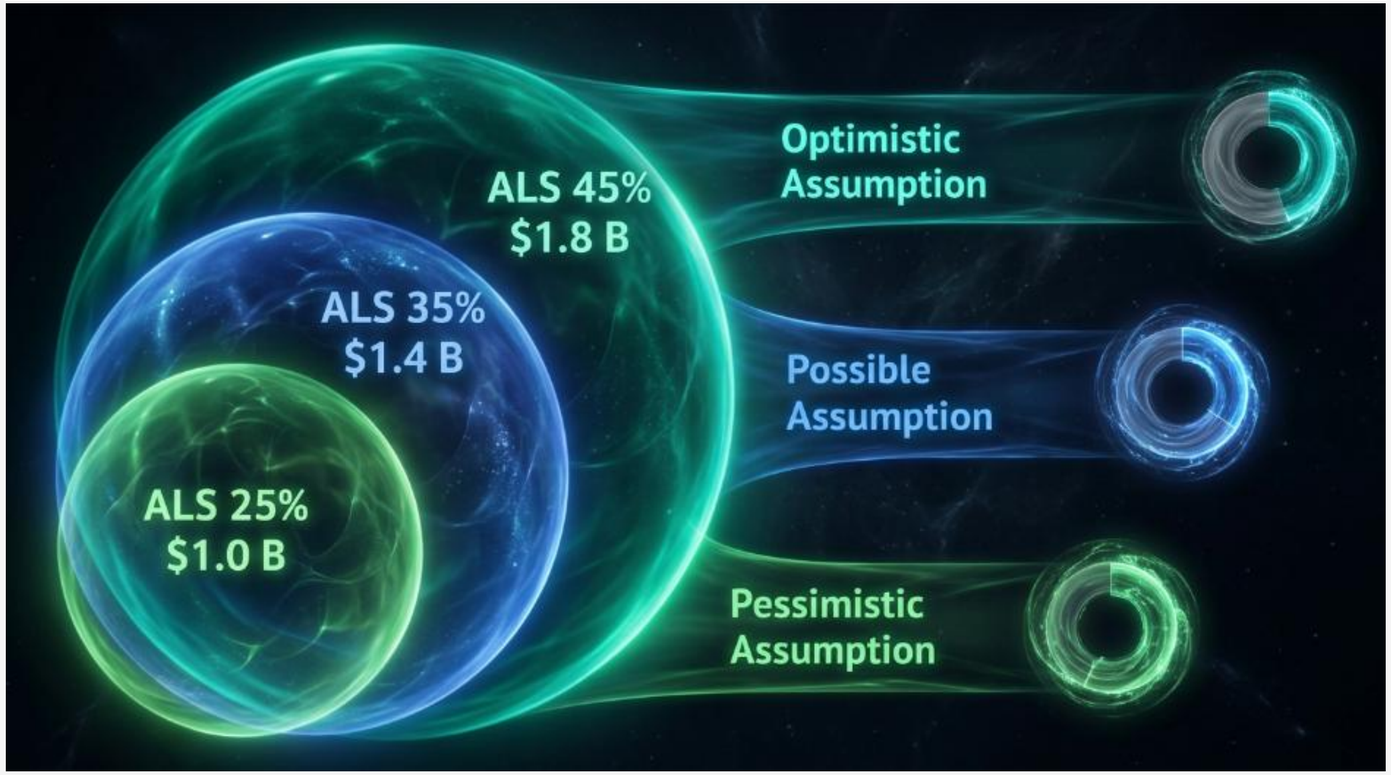
Opportunity Timeline

First target ALS (&FDA approval submission) in partnership with leading US clinics.

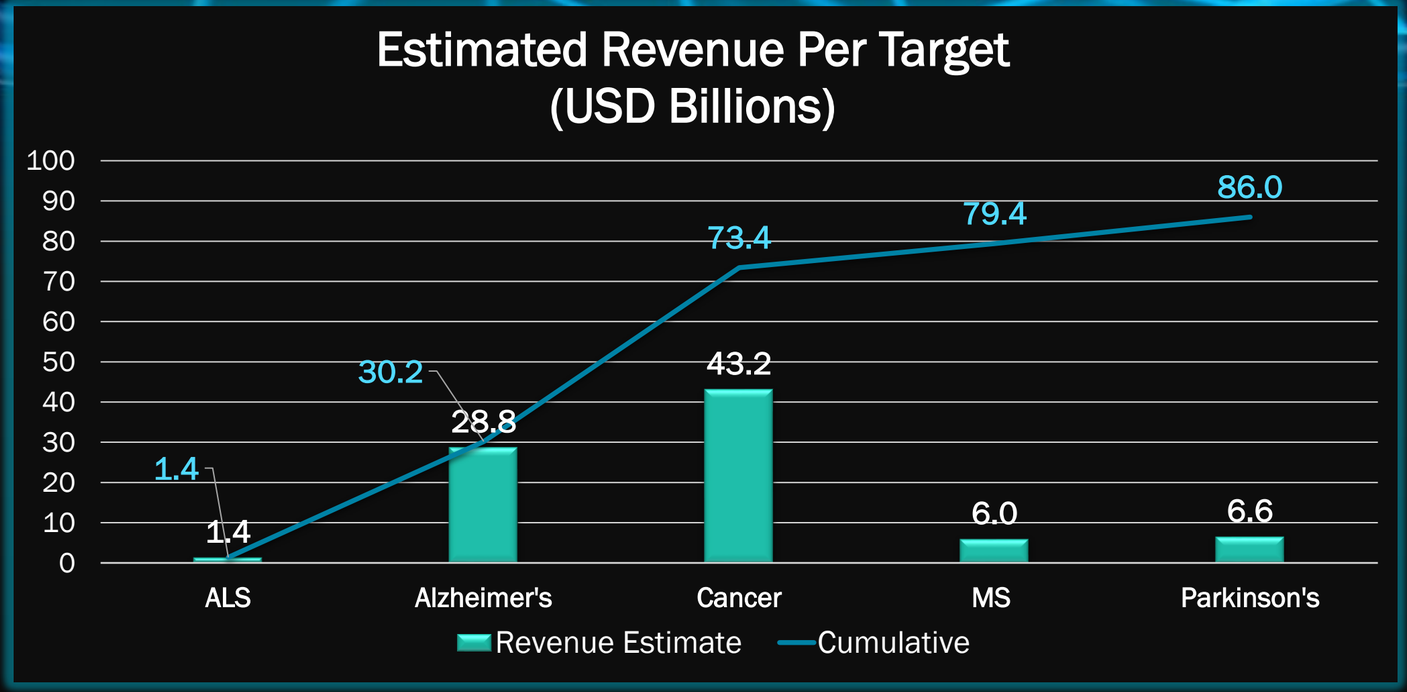
Gross Treatment Revenue

Estimated $40,000 per treatment, 3 treatments/year, Annual total: **$120,00/Patient**

SELtx™ ALS Estimates Cross the $1.0B Annual Revenue Threshold Even at Modest Penetration Rates



Beyond ALS – Much Larger Markets



Condition	ALS	Alzheimer's	Cancer	MS	Parkinson's
Revenue Estimate (Billions)	1.4	28.8	43.2	6.0	6.6
All figures are estimates based on low-to-mid-range penetration rates for U.S. patient populations.					
Target Patient Population	34,000	8,000,000	18,000,000	1,000,000	1,100,000
Market Penetration	35%	3%	2%	5%	5%

"One More Thing" Times X

Positive results in our IRB will open research avenues (see chart) in markets that are exponentially larger than ALS.

Top Tier Margins and Scalability

As a platform technology, our device can be used for a host of disease states – maximizing profit margins as the network grows.

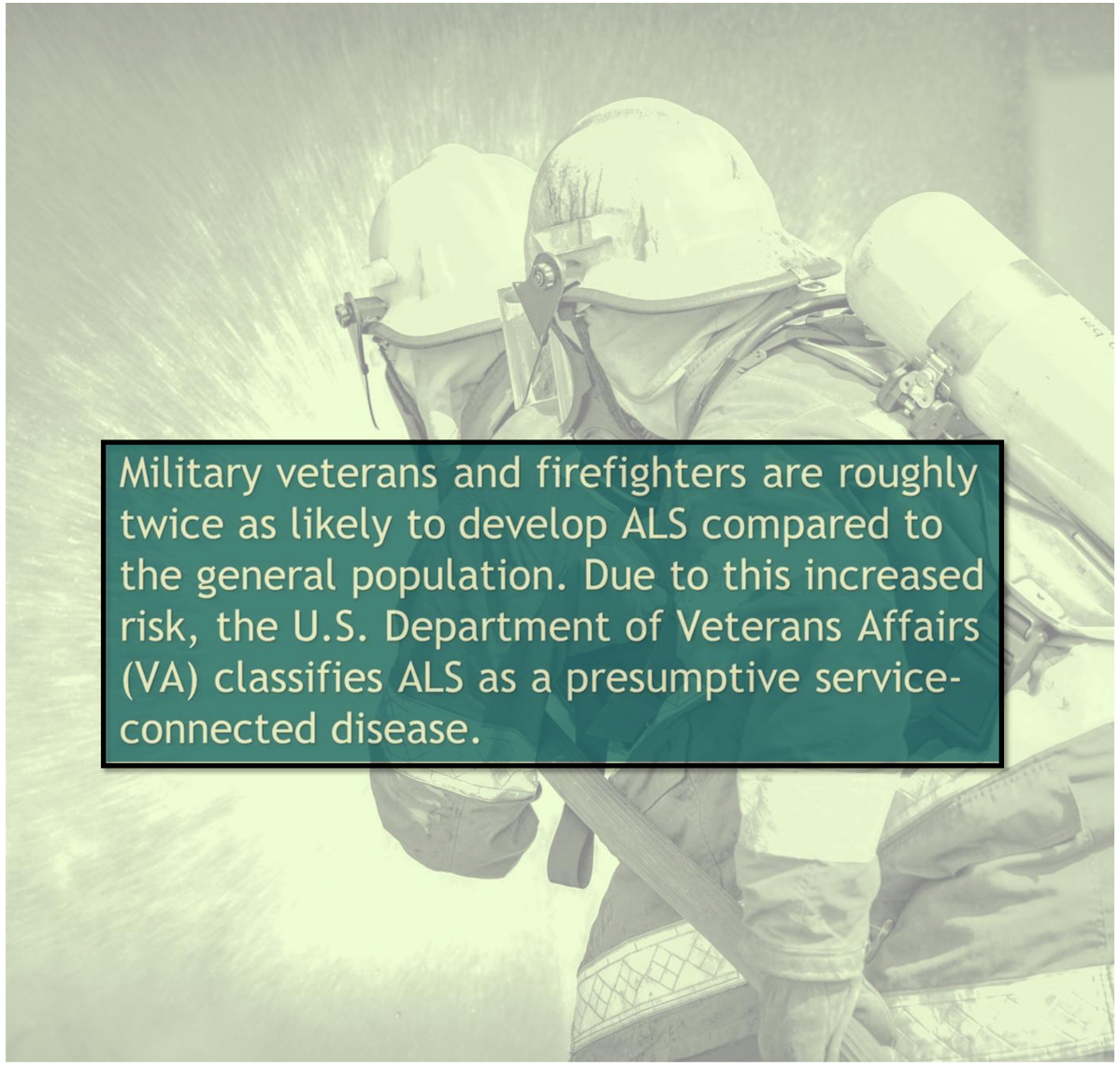
Open-Ended Science

The NIH estimates that there are more than 100 diseases with an autoimmune component – opening the door for ***Compassionate Use***, ***Right to Try***, and additional studies beyond our initial targets.

Our Roadmap is Set

The next stage starts within days after funding

- IRB human trial and research partners identified and in place: Banner, Barrow, Indiana University School of Medicine
- Transgenic mouse (n=10 ALS) and ***human IRB results possible in less than 12 months***
- First Step - $5M Reg CF will fund pivotal studies for commercial launch
- Future Reg A+ will provide liquidity event and up to $75M for corporate development, technology & patent expansion, plus target expansion.



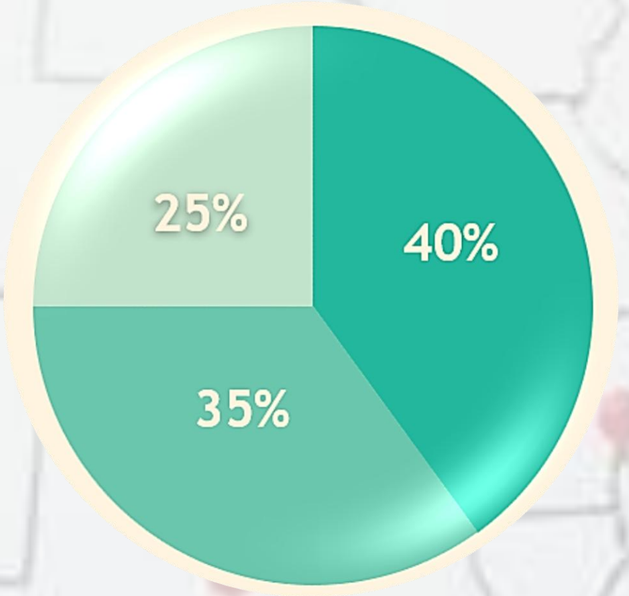
SELtx™ ASU Barrow Neurological Institute Banner Health The University of Arizona

Partnerships: Our Key to Growth

Rapid expansion in an unserved market will require partners with established networks.

Strategy

- Currently curating potential operational partners to support a national network of SELtx™ devices.
- Manufacturing partner already in place with capacity for global footprint.
- Various revenue sharing models under consideration, with conservative 40% share for HOPE-Neuron and est. gross margins at scale in excess of 85%.



Projected revenue allocation

40% HOPE-Neuron*

35% Provider

25% Distributor *

includes:

Recurring revenue from consumables and disposables

Optional licensing model for global partnerships

Valuations in Our Space are Measured in $Billions

Recent Comps

$400M – the annual run rate after just four quarters for ALS drug *Relyvrio (Amylyx)*, before the drug was pulled from the market in 2024.

$925M – the acquisition price tag in 2024 for *Therakos*, our closest (non-ALS) technology comp.

$2.5B – the price Shionogi & Co. Ltd paid in April 2026 for global rights to the leading ALS drug *Radicava (edaravone)* with $700M in annual sales.

Massive Unserved Market

13 – The number of Quality-Adjusted Life Years (QALY) lost per ALS patient.

$2.5B – annual healthcare cost of ALS in the U.S. alone

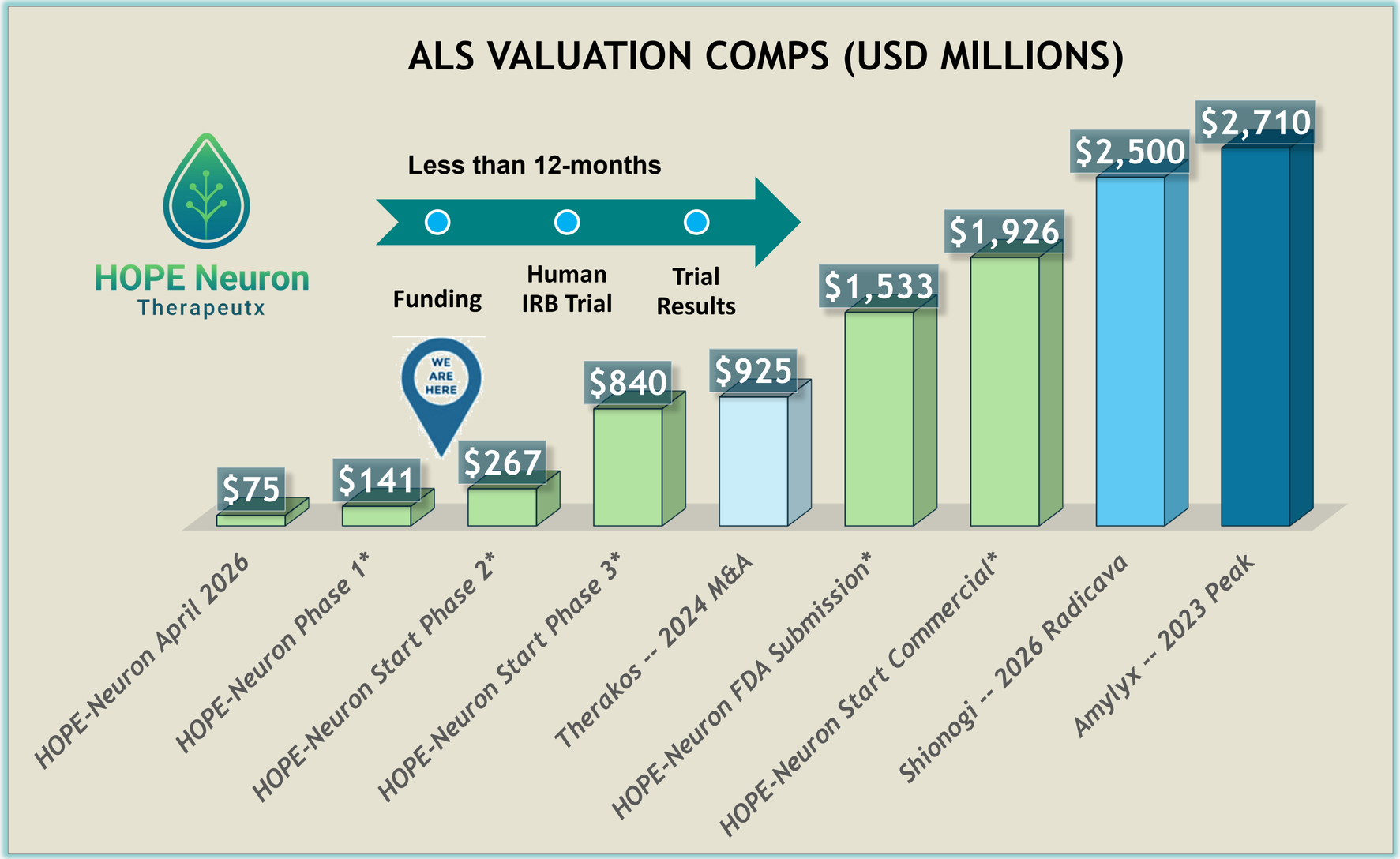
$3.14B – estimated annual value of halting disease progression in the U.S.

$26B-$40B – Estimated commercial value of a successful ALS treatment in the U.S.

Source: Office of Health Economics (OHE)

Currently approved treatments for ALS generally prolong life by only 2 to 19 months, and focus on slowing disease progression without improving a patient's health. The bar is set low for HOPE-Neuron's therapy, which demonstrated the ability to nearly "freeze" disease progression while maintaining motor function.

Well Defined Comps & Milestones



**Development phase valuations are estimates from 2025 third-party rNPV analysis sources.*

Large Underserved Markets

HOPE-Neuron operates in a field where even modestly effective therapies generate multi-billion-dollar valuations.

Compelling Comps

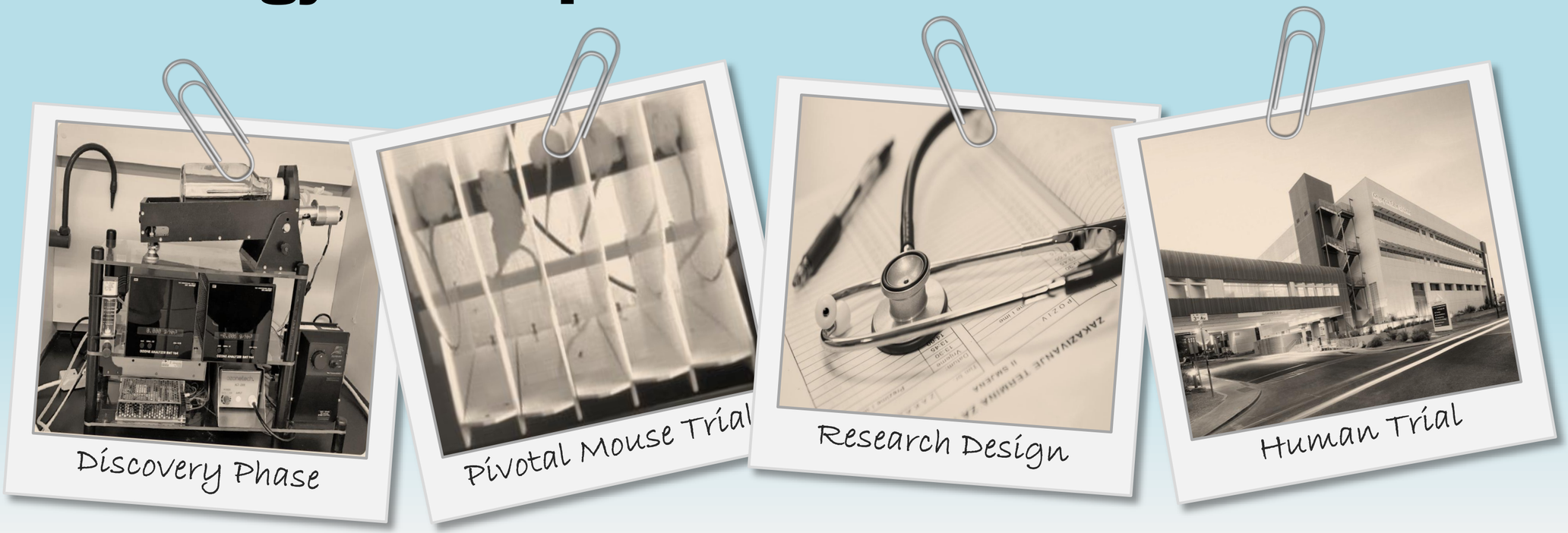
Our comp valuations are highly correlated with our business, set within the last three years and rising.

Compressed Timeline

HOPE-Neuron's IRB trial is designed to produce actionable data within weeks of first human testing.

Key: As a device-enabled therapy, our path to market is accelerated compared to drug-based solutions.

Our Technology Development Timeline



Pre-2022	2023-2024	2025	2026 Goals
Laying the Groundwork • Identified immune dysfunction as a key therapy target in neurodegeneration • Fabricated and tested first-generation device	**Proof of Concept** • Explored the use of the SELtx™ device for ALS therapy • Validated M1-to-M2 immune shift in ALS mouse models	**Planning Phase** • Designed pivotal human IRB and mouse trials • Expanded team and resources to support rapid business growth	**Path to Commercialization** • Construct next generation SELtx™ device • Conduct IRB human trial and dosing optimization mouse studies • Prepare study targeting Alzheimer's

Mission-Led. Expert-Driven

Ronald Lane, PhD

Founder & Executive Chairman

Neurobiologist and inventor of the SELtx™ platform.

Yansheng Du, PhD

Lead, Preclinical Transgenic Research

Professor of Neurology, Indiana University School of Medicine.

Mark Forney

VP of Business Development

Specializing in high-growth, scalable technology applications

Karina Fedasz

Interim CFO

Leads regulatory and registration efforts.

John Louf

Chief Technology Officer

Leads technology infrastructure, operations, and IP expansion.

Caleb Marsh

Chief Communications Officer

Leads communications and marketing efforts.

SELtx™ ASU Barrow Neurological Institute Banner Health THE UNIVERSITY OF ARIZONA

Intellectual Property & Defensibility

Globally protected technology targeting immune modulation.

Patents granted and pending in the U.S., Japan & additional markets

Covers proprietary hyperoxia gas-fluid contact reactor and mechanotransduction process

Future filings planned for device development and optimization

U.S. Patent No. 11471579 “GAS TREATMENT DELIVERY SYSTEMS AND METHODS” (expiration date: May 29, 2039)

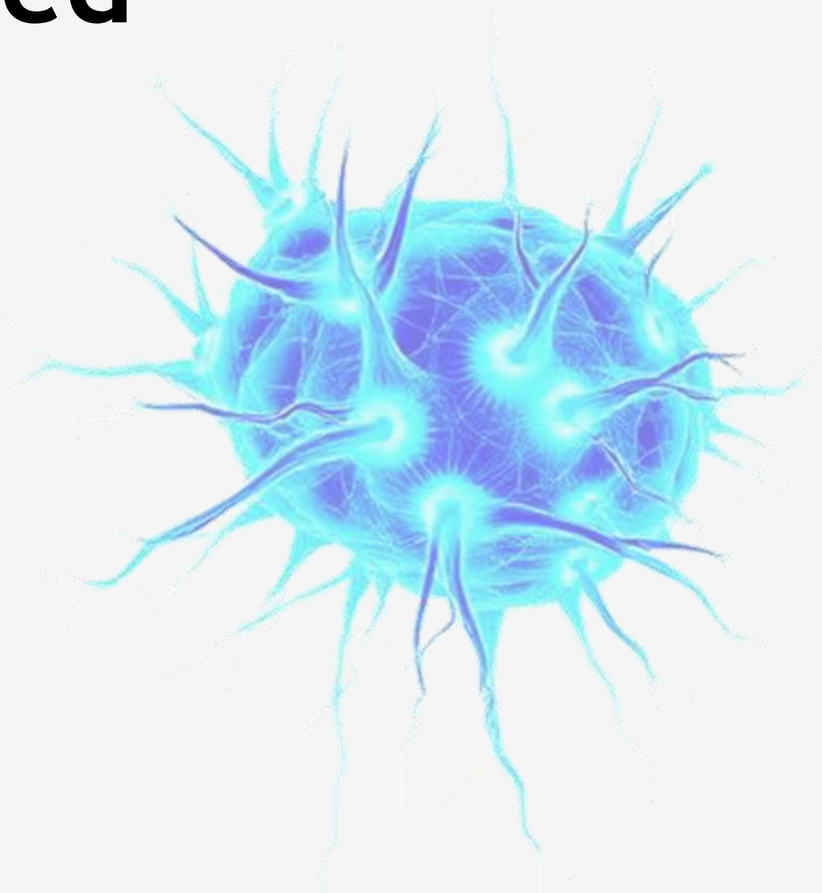
U.S. Patent No. 12667645 “GAS TREATMENT DELIVERY SYSTEMS AND METHODS” (expiration date: August 18, 2037)

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

Our Pivotal Moment Has Arrived

What We Know

- SELtx™ is the most effective ALS therapy to date in animal studies.
- Our technology can return a body to homeostasis by rebalancing M1 and M2 cells.
- Our therapy appears to be well tolerated and has an excellent side effect profile.



The Questions We Plan To Answer in Our Upcoming Trials

- How well will SELtx™ translate to humans?
- What is the ideal therapy regimen and dosing level?
- Will SELtx™ be just as effective in other disease states?

Our technology doesn’t fight millions of years of evolution, but simply returns a body to a state where it can heal itself.

HOPE Neuron
Therapeutx

The Impact: *Our upcoming industry-first human trial has the potential to become a watershed moment in the treatment of neurodegenerative disease.*

Please Join Us as We Work to Bring HOPE to the ALS Community

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Hope-Neuron Therapeutx Inc. is a U.S. Corporation with operations in Arizona, California, and Indiana