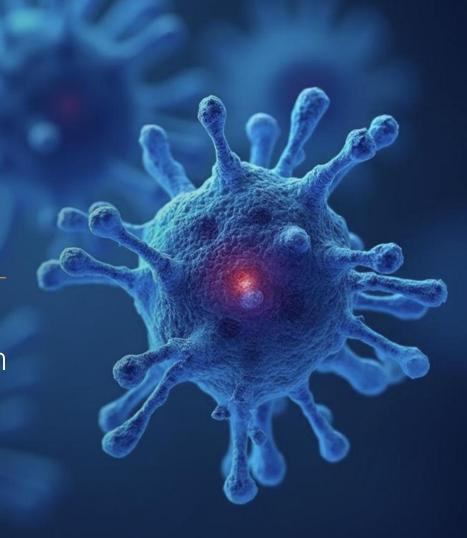


Addressing Neuro-Inflammation through Therapeutic Intervention

Investor Overview July 2025



Cautionary Note of Forward-Looking Statements and Disclaimers in this Presentation



This presentation and the accompanying oral presentation contain "forward-looking" statements that are based on our management's beliefs and assumptions and on information currently available to management. Forward-looking statements include all statements other than statements of historical fact contained in this presentation, including information concerning our current and future financial performance, business plans and objectives, current and future clinical development activities, timing and success of our ongoing and planned clinical trials and related data, the timing of announcements, updates and results of our clinical trials and related data, our ability to obtain and maintain regulatory approval, the potential therapeutic benefits and economic value of our product candidates, competitive position, industry environment and potential market opportunities. The words "believe," "may," "will," "estimate," "continue," "anticipate," "intend," "expect," and similar expressions are intended to identify forward-looking statements.

Forward-looking statements are subject to known and unknown risks, uncertainties, assumptions and other factors including, but not limited to, those related to risks associated with the success, cost and timing of our product candidate development activities and ongoing and planned clinical trials; our plans to develop and commercialize targeted therapeutics; the progress of patient enrollment and dosing in our preclinical or clinical trials; the ability of our product candidates to achieve applicable endpoints in the clinical trials; the safety profile of our product candidates; the potential for data from our clinical trials to support a marketing application, as well as the timing of these events; our ability to obtain funding for our operations; development and commercialization of our product candidates; the timing of and our ability to obtain and maintain regulatory approvals; the rate and degree of market acceptance and clinical utility of our product candidates; the size and growth potential of the markets for our product candidates, and our ability to serve those markets; our commercialization, marketing and manufacturing capabilities and strategy; future agreements with third parties in connection with the commercialization of our product candidates; our expectations regarding our ability to obtain and maintain intellectual property protection; our dependence on third party manufacturers; the success of competing therapies or products that are or may become available; our ability to attract and retain key scientific or management personnel; our ability to identify additional product candidates with significant commercial potential consistent with our commercial objectives; and our estimates regarding expenses, future revenue, capital requirements and needs for additional financing.

We have based these forward-looking statements largely on our current expectations and projections about future events and trends that we believe may affect our financial condition, results of operations, business strategy, short-term and long-term business operations and objectives, and financial needs. Moreover, we operate in a very competitive and rapidly changing environment, and new risks may emerge from time to time. It is not possible for our management to predict all risks, nor can we assess the impact of all factors on our business or the extent to which any factor, or combination of factors, may cause actual results to differ materially from those contained in any forward-looking statements we may make. In light of these risks, uncertainties and assumptions, the forward-looking events and circumstances discussed herein may not occur and actual results could differ materially and adversely from those anticipated or implied in the forward-looking statements. Although our management believes that the expectations reflected in our forward-looking statements are reasonable, we cannot guarantee that the future results, levels of activity, performance or events and circumstances described in the forward-looking statements will be achieved or will occur. We undertake no obligation to publicly update any forward-looking statements, whether written or oral, that may be made from time to time, whether as a result of new information, future developments or otherwise.

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Coya Therapeutics: Investment Highlights



Novel Therapies, High Unmet Need

- o Differentiated approach targeting Treg dysfunction through combination therapies
- o Targeting high unmet diseases ALS, FTD, Alzheimer's Disease
- De-Risked approach targeting diseases (ALS, FTD) with regulatory flexibility

High Commercial and Value Creating Potential

- COYA-302: "A Pipeline Within a Product" with > \$10B Potential
- o COYA-303- Potential to create value for existing GLP-1 Agonists

Strong Cash Runway, Clean Cap Table

- o Cash \$35.5 million as of 03/31/2025 with runway into 2026, no debt,16.7M Shares Outstanding
- Strategic partnership with Dr. Reddy's (RDY) with potential ~\$700M deal value Steady line of sight to nondilutive cash (\$8.4M anticipated in 2025)

Accomplished Management Team and Board

o Proven track record of execution and value creation



A Large and Global Problem



Neurodegeneration is **affecting millions** of people **without clear therapeutic pathways**.

1 in 3 people will be affected by neurological conditions in their lifetime.

50 Million+
People Impacted
Worldwide

\$9 Trillion
Global Cost of
Dementia by 2050

3-5
Years
Life Expectancy
After ALS Diagnosis

What are Neurodegenerative Diseases?

Neurodegenerative diseases are progressive conditions that impair bodily function - impacting your movement, memory, or thinking.

They include Amyotrophic Lateral Sclerosis (ALS), Alzheimer's Disease, Parkinson's Disease, and Frontotemporal Dementia (FTD)

The Coya Solution



We will address neurodegeneration at its source by developing innovative therapies to meet the needs of patients with these diseases.



Parkinson's Disease



Combining Therapeutic Approaches

Neurodegenerative disorders impact people in a variety of ways. There are clear therapeutic benefits in focusing on the common underlying characteristics of these diseases, to develop a comprehensive treatment that benefits a range of patients.

Inflammation in the Nervous System

ALS



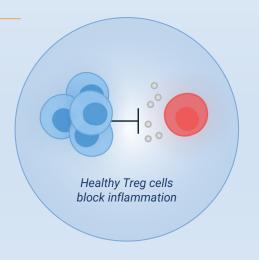
Harnessing Tregs

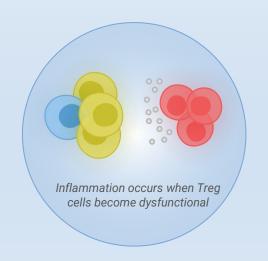
Tregs manage your immune system's response to sickness, and play a key role in helping you feel better. In applying our knowledge of Tregs, we will empower patients' internal first responders with support to tackle these diseases.

FTD

Intro to TRegs







What are Tregs?

Tregs are cells within the body that keep the immune system in check. When functioning properly, they allow the immune system to function appropriately.

How do Tregs influence disease?

When Tregs do not function properly, autoimmune and neurodegenerative diseases can develop and progress.

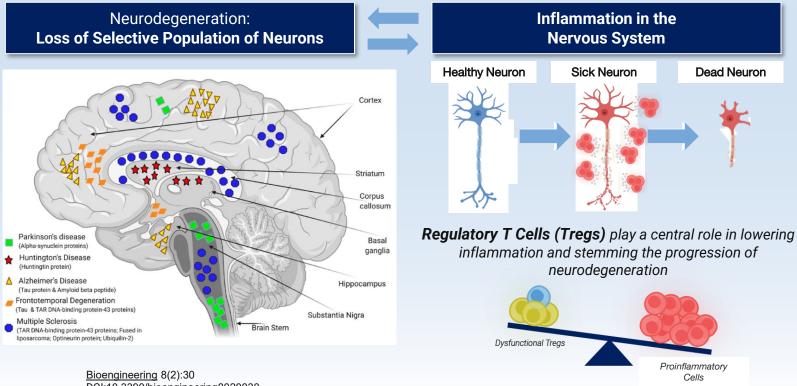
How to treat disease by targeting Tregs?

Coya is focusing on restoring Tregs to their normal functional state using combination therapies to potentially treat incurable neurodegenerative diseases.

Inflammation - A Critical Role in Neurodegeneration



Regulatory T cells (Tregs) are Dysfunctional; COYA aims to repair these cells



DOI:10.3390/bioengineering8020030

Introducing Coya 302



Our Lead Therapy - Coya 302

Our research indicates that by decreasing inflammation and increasing Treg suppressive function we can unlock a therapeutic pathway that may be more effective than a singular solution

Boost the Good

Strengthen the function of Tregs, giving them a much needed boost.

Combine for Success

These approaches are most effective in combination, working to control inflammation.

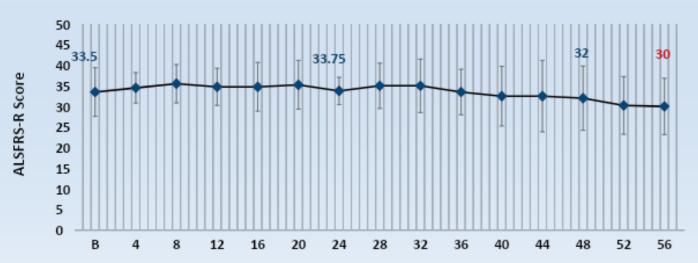
Reduce the Bad

Block harmful immune responses to stop inflammation in its tracks.



Trial in Patients with ALS, appears to Ameliorate ALS Progression Over 48 Weeks

Mean (±SD) ALSFRS-R Score (N=4)



LD IL-2 + CTLA4-Ig was well tolerated over 48 weeks; the most common AE was mild injection site reaction.

All patients completed the study; no deaths or serious AEs (SAEs) occurred over the course of the study.

B: Baseline

n.s.: not significant (paired t test)

Conducted using commercially available products

Interim Results in 5 patients with Frontotemporal Dementia



Patients treated with low dose IL-2 and CTLA-4 Combination in Investigator Initiated Clinical Trial

Treg numbers and suppressive function increased after the first treatment cycle (p < 0.01 and p < 0.05, respectively), and remained at higher significant levels throughout the treatment period.

The Mean Scores in FTD patients treated with low-dose IL-2 and CTLA4-Ig combination exhibited minimal to no cognitive decline over the course of the study, compared to pretreatment baseline values.

LD IL-2 + CTLA4-Ig was well tolerated over 22 weeks; the most common AE was mild injection site reaction. no deaths or serious AEs (SAEs) occurred over the course of the study.

Accelerating Research to Commercial



Commercial Growth enabled by Strategic Partnerships

With an already solidified partnership with Dr. Reddy's for Coya 302 for ALS, partnerships will be catalysts for business growth, regulatory approvals and clinical adoption



Research agreements in place to ensure preclinical data is well defined and ready for trial





Leveraging DRL's global footprint to accelerate regulatory and expand global commercial footprint

Coya 302 Program Pipeline



| Product Type | Discovery | Preclinical | IND-Enabling | Phase 1 | Phase 2 | Phase 3 | Partnerships |
|---|------------------------------|-------------|--------------|---------|---------|---------|--|
| ALS Amyotrophic Lateral Sclerosis | COYA 302 (Low Dose IL-2 + | CTLA4-Ig) | | | | | Licensing Transaction on 12/6/23 with Dr. Reddy's Laboratories |
| FTD Frontotemporal Dementia | COYA 302 (Low Dose IL-2 + | CTLA4-Ig) | | | | | Retained Worldwide Rights |
| AD Alzheimer's Disease | COYA 302 (Low Dose IL-2 + | CTLA4-Ig) | | | | | Retained Worldwide Rights |
| PD Parkinson's Disease | COYA 302 (Low Dose IL-2 + | CTLA4-Ig) | | | | | Retained Worldwide Rights |

2025 Key Catalysts and Milestones



| Additional Clinical Data Release: Phase 2 IIT AD Trial | 1Q 2025: Phase 2 LD IL-2 investigator initiated trial in patients with AD additional clinical data release: Publication and release of additional and comprehensive systemic immune panel and inflammatory cerebrospinal fluid (CSF) biomarkers comparing LD IL-2 arms to placebo arm |
|--|--|
| COYA 303 Data Release | > 1Q/2Q 2025: COYA 303 combination mechanistic data publication and additional IP filings |
| COYA 302 Phase 2 ALS Trial Initiation | 2Q 2025: Submission of the additional data package to support the start of the COYA-302 Phase 2 trial in patients with ALS Upon Acceptance and first patient dosing: eligible to receive non-dilutive milestone payments of \$8.4M from strategic partner, Dr. Reddy's Laboratories (DRL) |
| ALS Biomarker Data Release | 2Q 2025: ALS Biomarker data publication of longitudinal data on Neurofilament Light Chain (NfL) and oxidative stress markers in ALS Patients |
| FTD Clinical Data Release and IND | 2H 2025: Top Line Clinical Data of investigator-initiated trial combining LD IL-2 + CTLA4-Ig in FTD Patients 2H 2025: File COYA-302 IND for Phase 2 FTD Trial |

Additional Pipeline Assets



| Product Type | Discovery | Preclinical | IND-Enabling | Phase 1 | Phase 2 | Phase 3 | Key Milestones |
|--|-------------------------|-------------|--------------|---------|--------------------|---------|--|
| | | | | | - - - | | |
| Coya 301 Proprietary Low Dose IL-2 | COYA 301 in / | AD | | | | | 1H 2025: Additional biomarker and blood panel data from the academic IIT doubleblind Ph2 data that was presented at CTAD in October 2024 |
| Coya 303 COYA 301 + GLP- 1 Agonist | COYA 303 Undisclosed | | | | | | 1H 2025: Additional IP filings Publish preclinical in-vitro data Initiate preclinical translational study Partnership discussions |
| Coya 201 Allogeneic Treg Derived Exosomes | COYA 201 Undisclosed | | | | | | 2025: Pre-clinical characterization |
| Coya 206 Antigen-Directed Allogeneic Treg- Derived Exosomes | COYA 206 Undisclosed | | | | | | 2025: Pre-clinical characterization |

Our Pipeline is > \$10Bn Opportunity



Coya is prioritizing therapies for ALS, FTD, AD, and PD as key initial neurodegenerative diseases

ALS and Frontotemporal Dementia

ALS and FTD both have high unmet need, are designated as orphan indications, and have flexible and fast paths to regulatory approval if shown to be effective.

Alzheimer's and Parkinson's

AD and PD represent the first and second most common neurodegenerative conditions and have high unmet need. Both conditions present a > \$5Bn sales potential each. Alzheimer's Disease

Parkinson's Disease

High unmet needs across conditions

AI S

FTD

Investment by ADDF

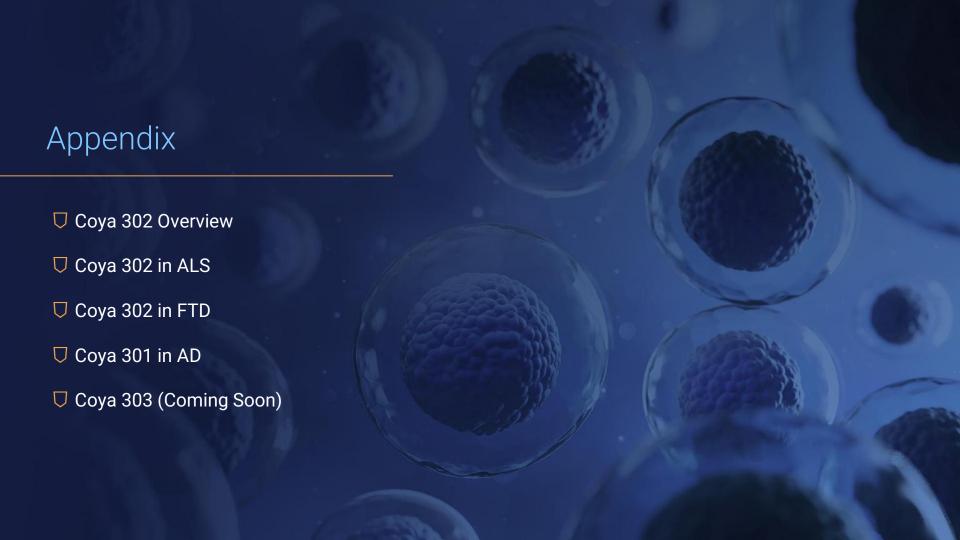


"Inflammation has emerged as a promising novel pathway for chronic neurological diseases like FTD. A combination drug, like COYA 302, is an innovative approach being developed to suppress neuroinflammation by targeting multiple inflammatory pathways. Combination therapy will be integral to slowing – and eventually halting – cognitive decline for a disease as complex as FTD, and exploring combined therapeutic modalities is an important advancement in the development of future care regimens."





Press Release: May 20th, 2024 following announcement of a \$5M strategic investment in Coya Therapeutics





COYA 302

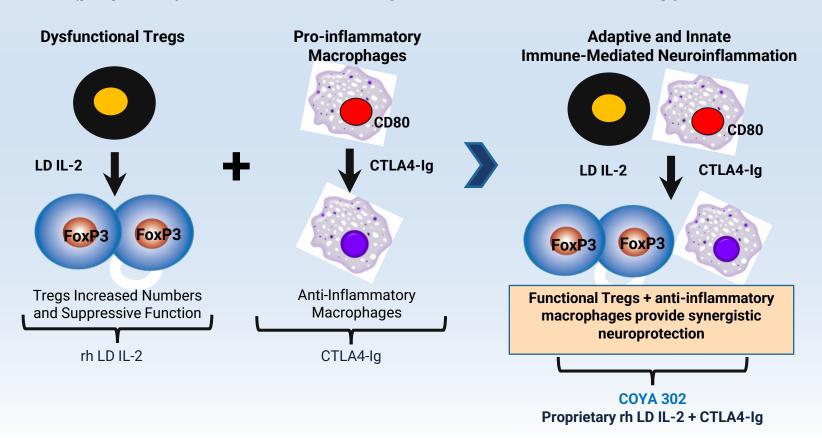
Proprietary, Recombinant Human Low Dose Interleukin-2 (rh LD IL-2) and CTLA4-Ig



The Future of Neurodegenerative Disease Therapy



COYA 302 (proprietary rh LD IL-2 + CTLA4-Ig Combination Immunotherapy



Coya 302 is a Pipeline within a Product with > \$10BN Potential



Coya is prioritizing ALS, FTD, AD, and PD as key initial neurodegenerative diseases



ALS or Amyotrophic Lateral Sclerosis and is an Orphan Indication

- · High Unmet Need
- Regulatory Flexibility
- >\$1B Sales Potential
- Fast Path to Approval if Effective



FTD or Frontotemporal Dementia and is an Orphan Indication

- No Approved Therapies
- · Regulatory Flexibility
- >\$1B Sales Potential
- Fast Path to Approval if Effective



AD or Alzheimer's Disease

- High Unmet Need
- Most common
 Neurodegenerative
 Disease
- >\$5B Sales Potential



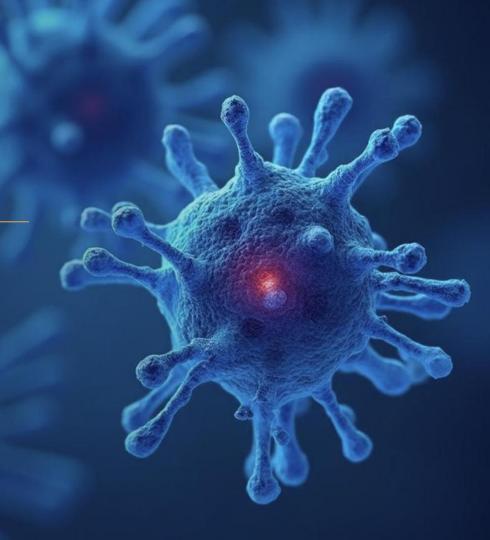
PD or Parkinson's Disease

- · High Unmet Need
- Second most common Neurodegenerative Disease
- >\$5B Sales Potential



COYA 302 in ALS

Proprietary, Recombinant Human Low Dose Interleukin-2 (rh LD IL-2) and CTLA4-Ig

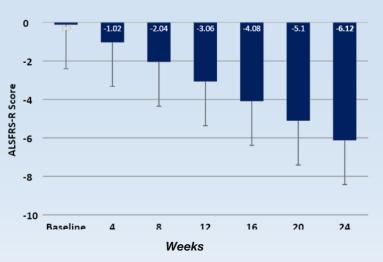


Current Therapies for ALS aim to slow disease progression

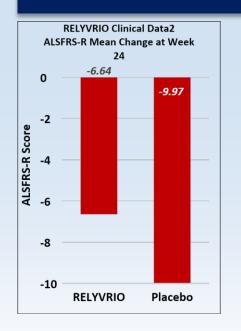


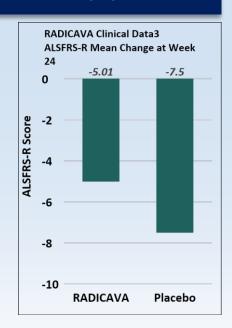
Average rate of patient decline is 1.02 points/month in ALSFRS-R score¹

PRO-ACT ALS Database Mean (SD) Documented Decline (ALSFRS-R)



Many companies have garnered significant value by demonstrating a *limited* benefit of slowing the rate of ALS progression





^{1.} The PRO-ACT database is the largest ALS data repository (Atassi et al, 2014)

^{2.} Relyvrio US Prescribing Information (9/2022)

^{3.} Radicava US Prescribing Information (5/2022)



Open-Label, Single-Arm PoC Clinical Study in ALS Patients (N=4)

Screening

20 weeks

Screening Assessments

- **✓ Clinical Labs**
- **✓ ALSFRS-R Score**
- √ Electrocardiogram (ECG)
- √ Physical & Neurological Exam

Study patients had welldocumented disease progression prior to treatment (-1.1 points/month prior to treatment with COYA 302)

Treatment Period

LD IL-2 + CTLA4-Ig was administered via subcutaneous injection over 48 weeks

Treatment Period Assessments

- √ Safety and Tolerability
- √ Treg Function and Numbers
- √ Serum Biomarkers
- **✓ ALSFRS-R Score**

Follow-Up

8 weeks

Post-Treatment Assessments

- **✓** Safety and Tolerability
- **✓ Treg Function & Numbers**
- √ Serum Biomarkers
- √ ALSFRS-R Score

Safety and tolerability assessments included reported adverse events, periodic physical and neurological exams, clinical labs, and ECGs

^{*} Conducted using commercially available products

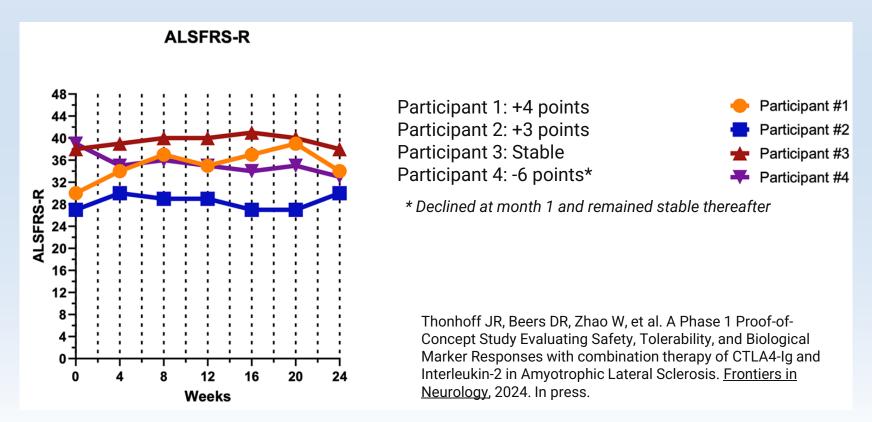


Baseline Characteristics

| | Age (years) | Sex | Туре | Onset | ALS Progression Prior to Baseline (ALSFRS-R score) | Respiratory Status | Respiratory Support |
|-----------|----------------|--------|----------|--------|--|---------------------------------|-----------------------------|
| Patient 1 | 47 | Female | Familial | Limb | -1.6 points / month | No Respiratory Insufficiency | None |
| Patient 2 | 54 | Male | Sporadic | Limb | -1 points / month | Respiratory Insufficiency | Non-invasive Ventilation |
| Patient 3 | 57 | Female | Sporadic | Bulbar | -1 point / month | Respiratory Insufficiency | Non-invasive Ventilation |
| Patient 4 | 84 | Female | Sporadic | Bulbar | -0.7 points / month | Respiratory Insufficiency | None |



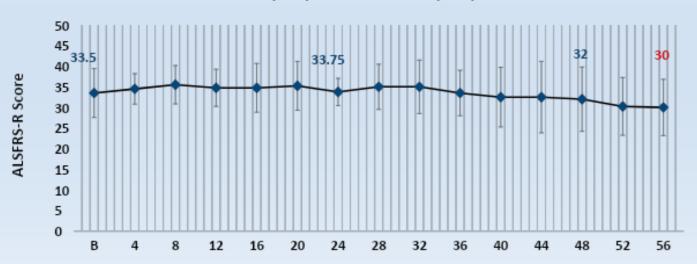
ALSFRS-R Individual Scores remained mostly stable or improved





Appears to Ameliorate ALS Progression Over 48 Weeks

Mean (±SD) ALSFRS-R Score (N=4)



LD IL-2 + CTLA4-Ig was well tolerated over 48 weeks; the most common AE was mild injection site reaction.

All patients completed the study; no deaths or serious AEs (SAEs) occurred over the course of the study.

B: Baseline

n.s.: not significant (paired t test)

Conducted using commercially available products

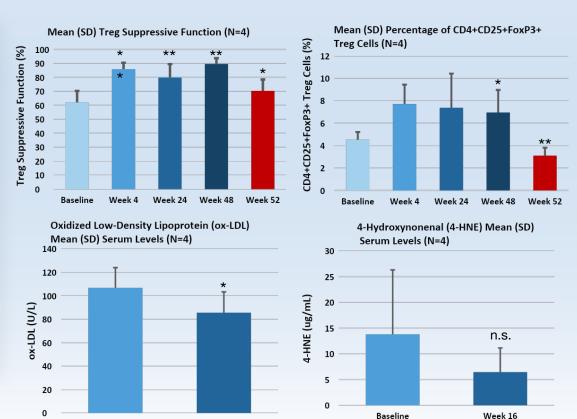
Baseline



Lowered Oxidative Stress Markers

Key Takeaways

- ✓ LD IL-2 + CTLA4-Ig significantly expanded Treg suppressive function as early as 4 weeks after initiation of treatment and maintained a significantly increased Treg function.
- ✓ LD IL-2 + CTLA4-Ig increased Treg numbers as early as 4 weeks after initiation of treatment and maintained a higher number over the course of treatment.
- ✓ LD IL-2 + CTLA4-Ig enhanced suppression of macrophage-mediated oxidative stress and proinflammatory cytokine biomarkers over 48 weeks.



Week 16

n.s.: not significant (paired t test)

^{*}p < 0.05

^{**} p <0.01 (paired t test)

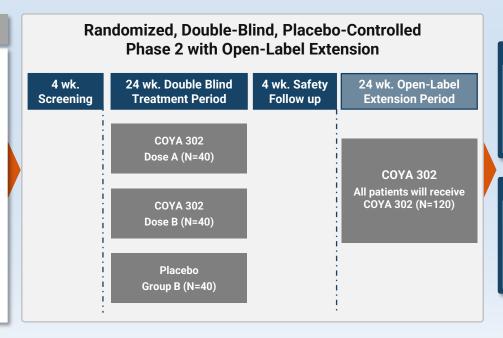
Overview of Phase 2 Study Design in ALS



Trial will be conducted starting later in H2-2025

Key Inclusion Criteria

- Diagnosis of sporadic or familial ALS
- Time since onset of ALS symptoms ≤ 24 months from Screening
- ALSFR-R score ≥ 35 at Screening
- A score of at least 2 points in each ALSFRS-R item
- Forced vital capacity (FVC) ≥ 70% of predicted capacity for age, height, and gender at Screening
- Documented disease progression (by ALSFR-R score) for at least 16 weeks prior to Screening



Primary Endpoint

Change in disease severity over time measured by ALSFRS-R total score from baseline to Week 24 vs. placebo

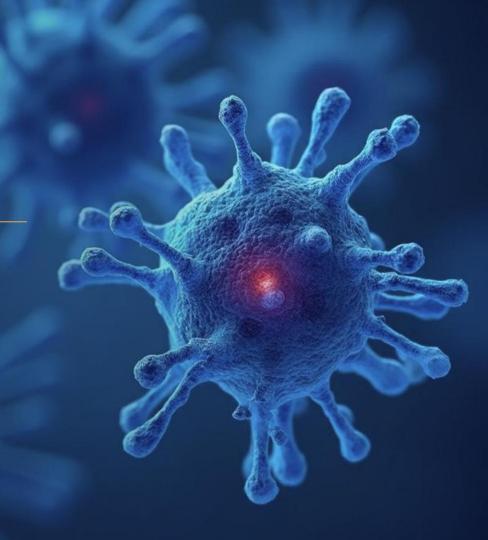
Study Objectives

- 1. Efficacy
- 2. Safety and Tolerability
- 3. Biological Activity
- 4. Biomarker levels



COYA 302 in FTD

Proprietary, Recombinant Human Low Dose Interleukin-2 (rh LD IL-2) and CTLA4-Ig



Partnership with Alzheimer's Drug Discovery Foundation



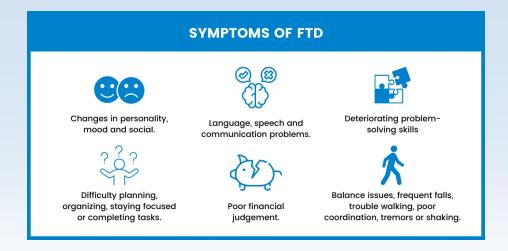
\$5M Investment to accelerate Phase 2b trial in FTD



Study Title

A Phase II, Randomized, Double-Blind,
Placebo-Controlled, Multi-Center, 26-Week
Study to Evaluate the Safety and Efficacy of
COYA 302 for the Treatment of Nonfluent
Variant Primary Progressive Aphasia
(nfvPPA) Subtype of Frontotemporal Lobar
Degeneration (FTLD)

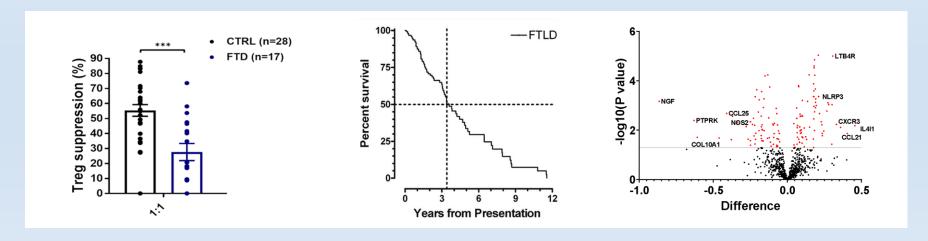
Frontotemporal Disorder (FTD) is a Rare Disease and is one of Most Common Dementias in Younger People. Frontotemporal disorder progresses to death faster than Alzheimer's disease, and, unfortunately, there is no effective treatment

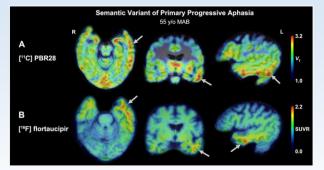


Exacerbated Systemic and Central Inflammatory Responses



FTD is a devastating disease that unfortunately has no effective treatment

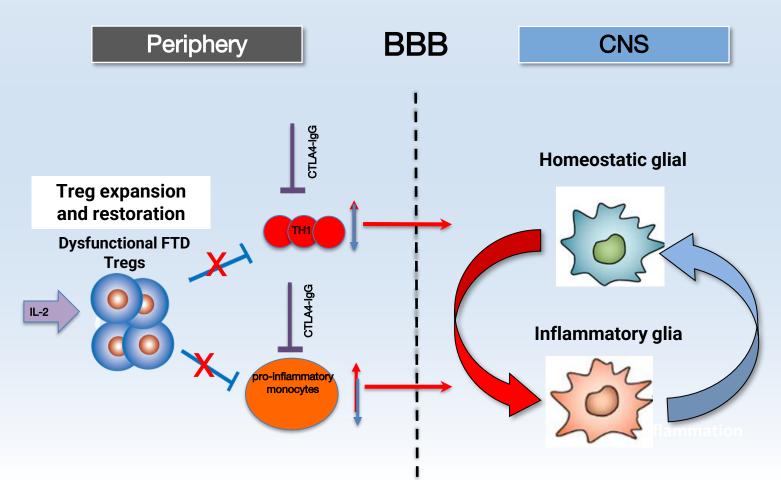






Targeting Inflammation in FTD to Slow Disease Progression





COYA 302 FTD Phase 2a Study



Houston Methodist Center is a CoE in ALLFTD - a single infrastructure clinical data platform in FTD with collaborative decision making among 5 leading centers around the USA



Eligibility Criteria

- Non-Fluent Primary Progressive Aphasia Subtype
- Global Clinical Dementia Rating Frontotemporal Lobar Degeneration (CDR® plus NACC FTLD) score of 0.5 or 1

Primary Endpoints

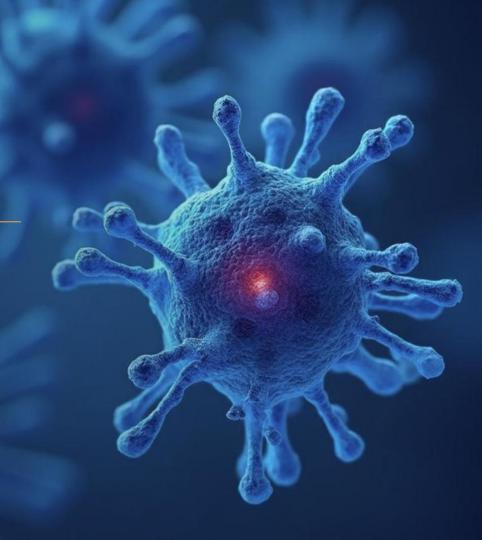
- CDR+NACC-FTLD-SB*
- Neuropsychological tests
- NfL
- MRI Volume

^{*} CDR® Dementia Staging Instrument PLUS National Alzheimer's Coordinating Center (NACC) Behavior and Language Domains for FTLD - sum of boxes



COYA 301

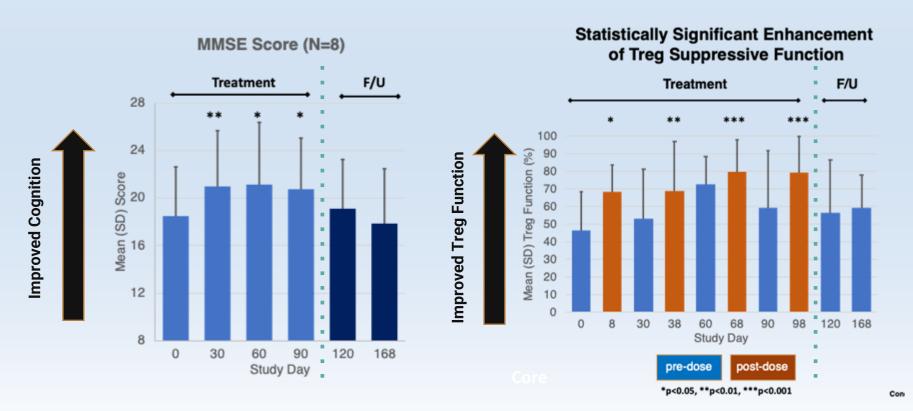
Proprietary Recombinant Low Dose IL-2



Phase 1 Proof of Concept Open-Label Trial with LD IL-2 in AD



Enhanced Treg Function and halted Cognitive decline



Case Study of Brain Imaging of AD Patient Before and After LD IL-2 Treatment



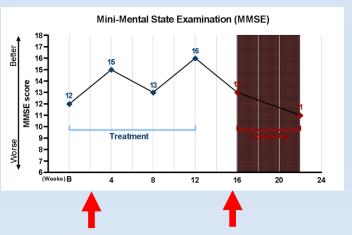
70-Year-Old Male

Baseline MMSE: 12

Positive PIB PET Scan

Positive Neurodegeneration MRI

Other Rx: Donepezil 10mg



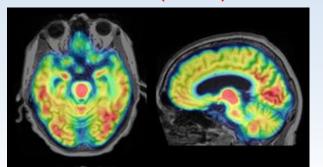
Neuroinflammation (TSPO)

(11C) ER-176 PET Scan at baseline and after 4-monthly cycles of low dose IL-2.

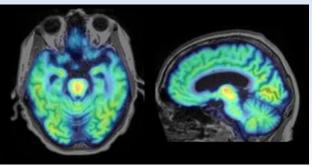
The second PET scan was done 2 weeks after last dose.

PET: Positron Emission Tomography TSPO: translocator protein

PET Scan (Baseline)



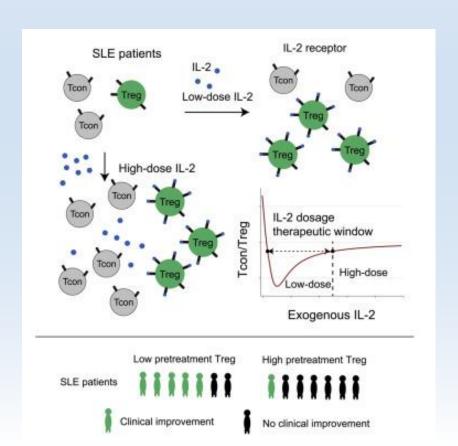
PET Scan (2 weeks after last dose)



A Primer on IL-2 Dosing and Treg Function



Lower IL-2 Dose is Better for Tregs



Study Summary

Previous studies have shown that lower IL-2 doses selectively enhance and increase Treg function reducing pro-inflammatory T Cells while higher IL-2 doses reduce Treg function and enhance pro-inflammatory cells



COYA 301 in AD

Phase 2 Low Dose Interleukin-2 (LD IL-2) in Patients with Mild to Moderate Alzheimer's Disease

An Investigator Initiated, Randomized, Double-Blind, Placebo-Controlled Clinical Trial led by Dr. Alireza Faridar at Houston Methodist Hospital



Double-Blind, Placebo-Controlled Study in AD Patients

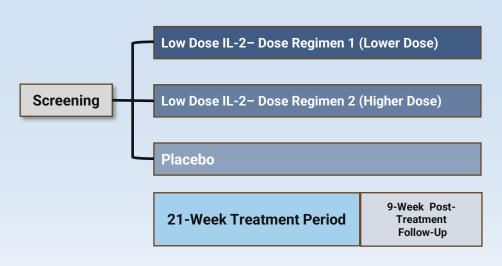


Study funded by the Gates Foundation and Alzheimer's Association

The encouraging results of the open-label, proof-of-concept study in AD (N=8) supported conducting the ongoing randomized, double-blind, controlled Phase 2 study in 38 patients with mild-to-moderate AD.

Study Objectives

- Safety & tolerability
- Biological activity (Treg function)
- Blood and CSF biomarkers
- Cognitive function



Dose Regimen 1: 1 million IU administered SC daily for 5 days, every 4 weeks Dose Regimen 2: 1 million IU administered SC daily for 5 days, every 2 weeks

^{*}Trial funded by Alzheimer's Association, Gates Foundation, NIA with support by Coya Therapeutics. IIT study using commercially available product

LD IL-2 Meets Primary and Secondary Endpoints for Potential Treatment of Alzheimer's Disease (AD)



✓ Cognition Stabilization (Exploratory Endpoint) for Lower IL-2 Dose Through Drug Treatment vs. Placebo:

- 2 out of 3 scales showed cognitive stabilization (ADAS-Cog14 and ADCS-CGIC)* for the Administering 5-day LD IL-2 cycles every 4 weeks (LD IL-2 q4wk) regimen.
- On day 148, ADAS-Cog14 scores indicated a slight improvement of -0.450 points from baseline for the LD IL-2 administered every four weeks, compared to a worsening of 4.480 points from baseline in the placebo group. The 4.93 point Δ suggests a clinically meaningful treatment effect.
- For patients with mild AD, a change of +3 on the ADAS-Cog has been described as clinically meaningful to assess worsening (Muir et al., Alzheimer's Dement. 2024;20:3352–3363).

✓ Safety (Primary Endpoint) and Regulatory T cell (Treg) Enhancement (Secondary Endpoint) Validated:

- Both dosing frequencies regimens of LD IL-2 studied (q4wk & q2wk) were safe and well-tolerated.
- Administering LD IL-2 q4wk effectively, sustainably, and significantly expanded Treg numbers and function vs. placebo without off-target effects on other peripheral lymphocytes.

✓ Significant Improvement in Amyloid Beta Pathology for <u>Lower IL-2 Dose</u> vs. Placebo:

- LD IL-2 q4wk significantly improved CSF Soluble Aβ42 levels (an index of amyloid pathology) vs. placebo.
- LD IL-2 among the first double-blind human trials to document subcutaneous Treg-enhancing therapy that modifies beta-amyloid.

✓ Cerebral Spinal Fluid (CSF) Biomarker and Cognitive Effects Were Associated with Boosted Treg Function and Numbers vs. Placebo

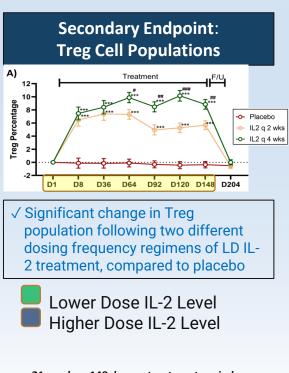
LD IL-2 in Mild to Moderate Alzheimer's Disease



The trial was designed to detect significant differences in primary and secondary endpoints, and validated that Lower Dose IL-2 is Better

Primary Endpoint: Safety and Tolerability

- ✓ No Serious Treatment Related Adverse Events Reported
- √ All Patients Completed Trial
- ✓ Drug was Well Tolerated



CSF Biomarkers and Clinical Scales Significant improvement in cerebrospinal (CSF) AD-related biomarker Soluble AB42 CSF Biomarkers and Clinical Scales Sc D64 D148 Clinical scales, including the ADAS-Cog Score

√ Assessment of

inflammatory responses will be reported in the near future)

peripheral/central

Exploratory Endpoints:

AB42

: 21 week or 148 day on-treatment period

Key Takeaways of the Trial



Trial validated that Lower Dose IL-2 is Better

Key Takeaways:

- We believe LD IL-2 study results further validate the hypothesis that restoring the numbers and function of Tregs with systemic LD IL-2 alone targets neuroinflammation
- We believe LD IL-2 study results indicate that systemically administered LD IL-2 directly mediates significant disease-modifying pathology in the CNS
- LD IL-2 study results increase our confidence in COYA 302 outcomes in neurodegenerative diseases (ALS and FTD)
- LD IL-2 study results increase our confidence in the opportunity to combine COYA 301 with other complementary modalities targeting AD (Amyloid, Tau targeting agents)
- LD IL-2 study results increase our confidence to pursue additional value-creating strategic partnership opportunities for COYA 301



COYA 303

An investigational biologic combination of COYA 301, Coya's low-dose interleukin 2 (LD IL-2) and a GLP-1 receptor agonist (GLP-1RA), designed to deliver a multitargeted immunomodulatory therapeutic in autoimmune and neurodegenerative diseases





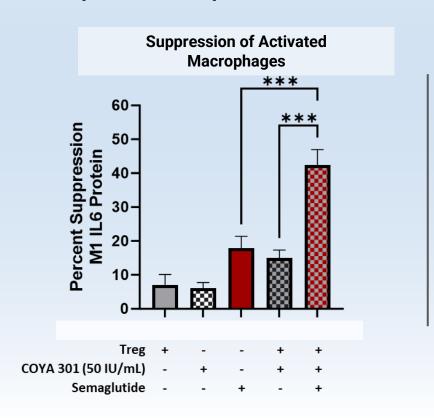
Glucagon-like peptide-1 receptor agonists (GLP-1RA) demonstrate promising immunomodulatory effects in preclinical models and clinical trials. To determine whether there are potential additive beneficial effects of GLP-1RA in combination with COYA 301, we conducted the following:

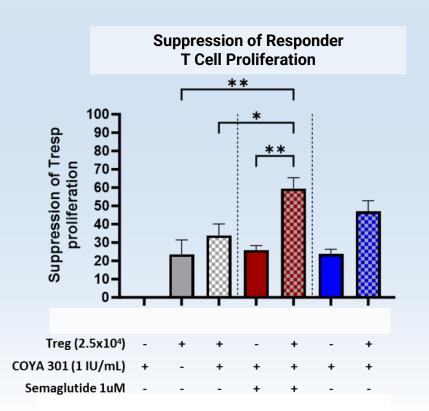
- In vitro suppression assays (activated macrophages and responder T cells)
- Preclinical model (Parkinson's disease)
- Potential exposure study in patients at Houston Methodist Hospital

The combination produced a statistically significantly higher Treg suppressive effect on proinflammatory myeloid cells and enhanced Treg survival in in vitro human immune cells, compared to the individual components - LD IL-2 and GLP-1RA



COYA 301 and GLP-1RA combination suppresses proinflammatory macrophages and responder T cell proliferation in vitro





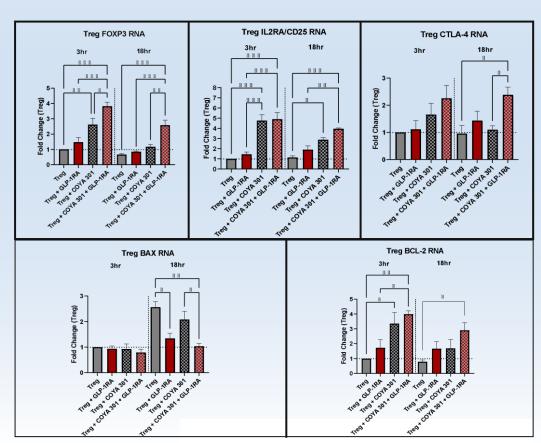


COYA 301 and GLP-1RA combination increases mRNA transcripts associated

with Treg function and survival

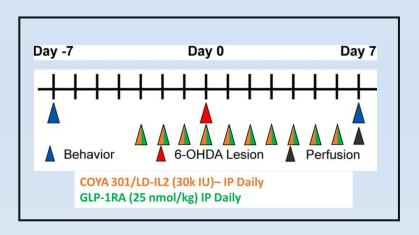
Upregulation of Treg survival and function

Protection of Tregs from apoptosis



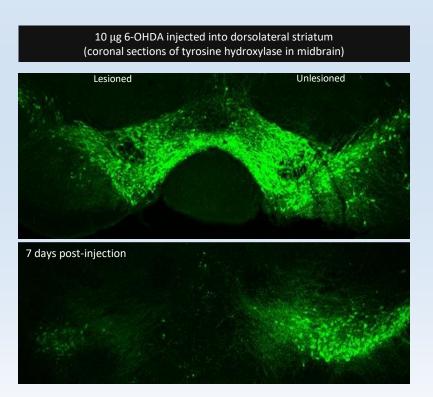


COYA 301 and GLP-1RA in a mouse model of Parkinson's disease



6-OHDA model of PD with the following endpoints:

- 1. Dopaminergic neuronal loss
- 2. Rescue of motor/behavior phenotype
- 3. Neuroinflammation (microgliosis/astrogliosis)
- 4. Peripheral T cell population





Expert Leadership Team





Arun Swaminathan, Ph.D.Chief Executive Officer



Fred Grossman, D.O., FAPA
President & Chief
Medical Officer



David SnyderChief Financial Officer &
Chief Operating Officer

Bristol Myers Squibb

Actinium

Pharmaceuticals Inc.

Alteogen Inc.

<- Prior Experiences ->

Johnson-Johnson

Sunovion

Bristol Myers Squibb

Mesoblast

Eli Lilly

Glenmark

DisperSol Technologies

Exicure

Cellular Dynamics
International

Roche NimbleGen

Experienced Operational Team





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Karen King Senior Vice President of Program Management and Clinical Operations



Daniel Barvin
Vice President of Operations
& Patient Advocacy

Revance Therapeutics

CytomX

FDA

Coherus BioSciences

<- Prior Experiences ->

Recursion

MacroGenics

Supernus

Shire

MedImmune

End The Legacy: Genetic ALS & FTD

I AM ALS

Morgan Stanley

World Class Scientific Advisors





Shimon Sakaguchi, M.D., Ph.D. Member of the National Academy of Sciences



Clive Svendsen, Ph.D.
Director, Cedars-Sinai
Regenerative Medicine Institute



Malcolm Brenner, M.D., Ph.D. Director, Center for Cell and Gene Therapy



Stanley Appel, M.D.Co-Director, Houston Methodist
Neurological Institute

Professor in Residence

Prior Experiences

Consulting Professor at Stanford University

at UCLA

Renowned expert on stem cell biology and regenerative therapeutic approaches Professor, Baylor College of Medicine

Dedicated career to the field of stem cell transplantation through the therapeutic use of T cell immunologic approaches For more than 50 years, Dr. Appel has devoted his life to finding solutions for people living with ALS

Pioneered role of Tregs in Neurodegeneration

Distinguished Professor at the World Premier International Research Institute - Immunology Frontier Research Center at Osaka University

Discovered Tregs in 1995

Distinguished Board of Directors





Howard Berman, Ph.D.
Executive Chairman
of the Board



Ann Lee, Ph.D.
Chief Technical Officer
of Prime Medicine



Dov Goldstein, M.D., MBA Chief Financial Officer of BioAge Labs



Wilbur Ross Former U.S. Secretary of Commerce



Anabella Villalobos, Ph.D. Head of Biotherapeutics and Medicinal Sciences of Biogen



Dieter WeinandFormer Chairman of Board and CEO, Bayer Pharma, AG



Thank You!

