

Developing diseasemodifying medicines for degenerative disorders

Mid 2023

Forward-looking Statements

FORWARD-LOOKING STATEMENTS

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Multiple Rigorous Phase 2 Programs Underway

Clinical Study	Indication	US Prevalence	Grant Funding*
SEQUEL(n=23)	Mild-moderate AD	~ 5 million	\$5.4 Million
SHINE (n=144)	Mild-moderate AD	~ 5 million	\$30 Million
START (n=540)	Early AD	~ 3.4 million	\$81 Million
SHIMMER (n=120)	Mild-moderate DLB	~ 1.4 million	\$30 Million
MAGNIFY (n=246)	GA secondary to dry AMD	~ 1.5 million	Equity FPI Enrolled

*Grant funding through completion of studies

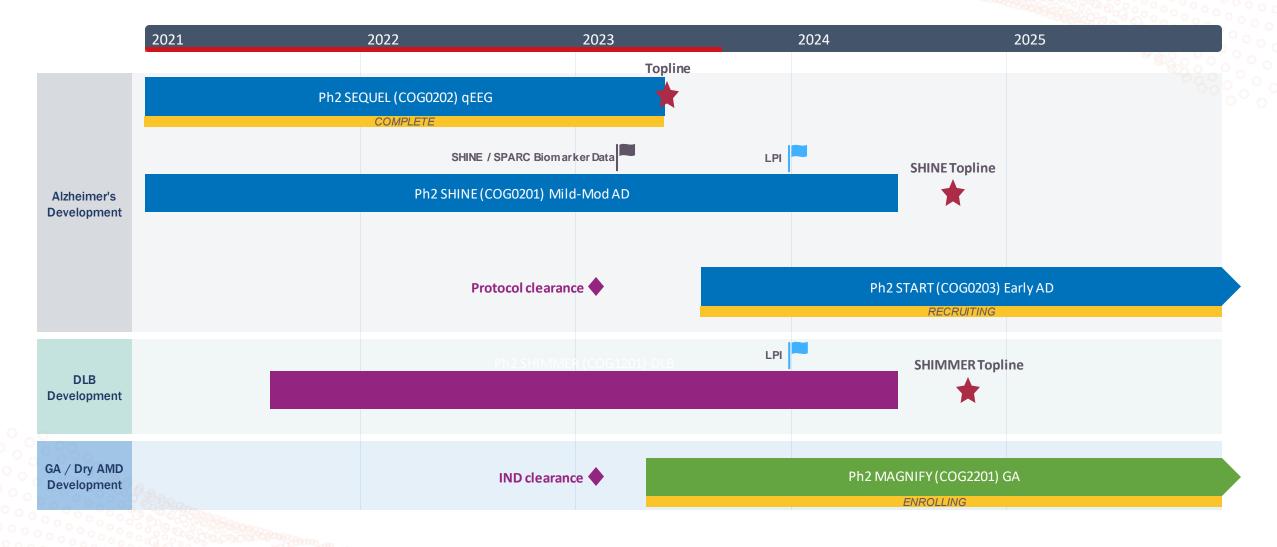


Compelling Investment Thesis

Novel Approach Validated Science	Strong Financials	CT1812 Oral Once-Daily Major Commercial Ops	
Protect synapses from toxic proteins and other stressors to facilitate restoration of neuronal function	\$170+ Million in cumulative non-dilutive grant funding Expected cash runway into 2H2024	Oligomer receptor: well characterized target Highly brain penetrant Selective and saturable binding IP through 2035 (potential PTE > 2040)	



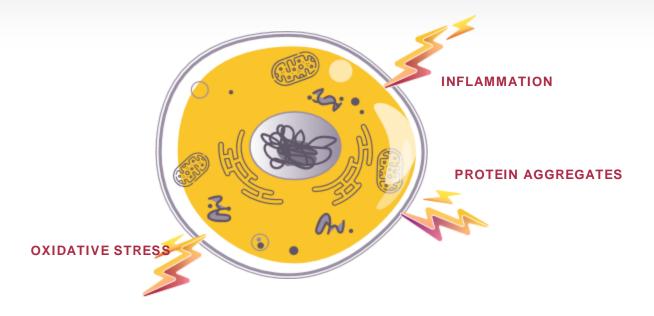
CGTX Near-term Catalysts





Pathogenic Proteins, Oxidative Stress, Inflammation Accumulate with Age

- Build-up of these stressors impairs key cellular functions:
 - Autophagy
 - Cholesterol synthesis
 - Protein trafficking
- Loss of these processes leads to neuronal degeneration and death



 Neuronal loss drives declines in cognition, vision and motor functions in diseases like Alzheimer's disease, DLB and dry AMD



Loss of Specialized Neurons Drives Degenerative CNS Diseases

- Over time, pathogenic proteins, oxidative stress, and inflammation damage neurons:
 - Cortical & hippocampal neurons in Alzheimer's disease
 - These as well as dopaminergic neurons in Parkinson's disease and dementia with Lewy bodies (DLB)
 - Photoreceptors, retinal ganglion cells in dry agerelated macular degeneration (dry AMD)
- Cognition's aim:
 - Protect neurons in the CNS from toxic stressors





Published in the International Journal of Molecular Sciences



Molecular World Today and Tomorrow Recent Trends in Biological Sciences



Find it on the Cognition website

Review

Sigma-2 Receptors – From Basic Biology to Therapeutic Target: A Focus on Age-Related Degenerative Diseases

Britney N. Lizama¹, Jennifer Kahle², Susan M. Catalano¹, Anthony O. Caggiano¹, Michael Grundman^{3,4}, and Mary E. Hamby ^{1,4}

- ¹ Cognition Therapeutics, Inc. Pittsburgh, PA, USA
- ² IHS International, San Diego CA
- ³ Global R&D Partners, LLC, San Diego, California, USA
- ⁴ Dept. of Neurosciences, University of California, San Diego, USA

Abstract: There is a large unmet medical need to develop disease-modifying treatment options for individuals with age-related degenerative diseases of the central nervous system. The sigma-2 receptor (S2R), encoded by *TMEM97*, is expressed in brain and retinal cells, and regulates cell functions via its co-receptor progesterone receptor membrane component 1 (PGRMC1), and through other protein–protein interactions. Studies describing functions of S2R involve the manipulation of expression or pharmacological modulation using exogenous small-molecule ligands. These studies demonstrate that S2R modulates key pathways involved in age-related diseases including autophagy, trafficking, oxidative stress, and amyloid- β and α -synuclein toxicity. Furthermore, S2R modulation can ameliorate functional deficits in cell-based and animal models of disease. This review summarizes the current evidence-based understanding of S2R biology and function, and its potential as a therapeutic target for age-related degenerative diseases of the central nervous system, including Alzheimer's disease, α -synucleinopathies, and dry age-related macular degeneration.



Published in the journal, Translational Neurodegeneration



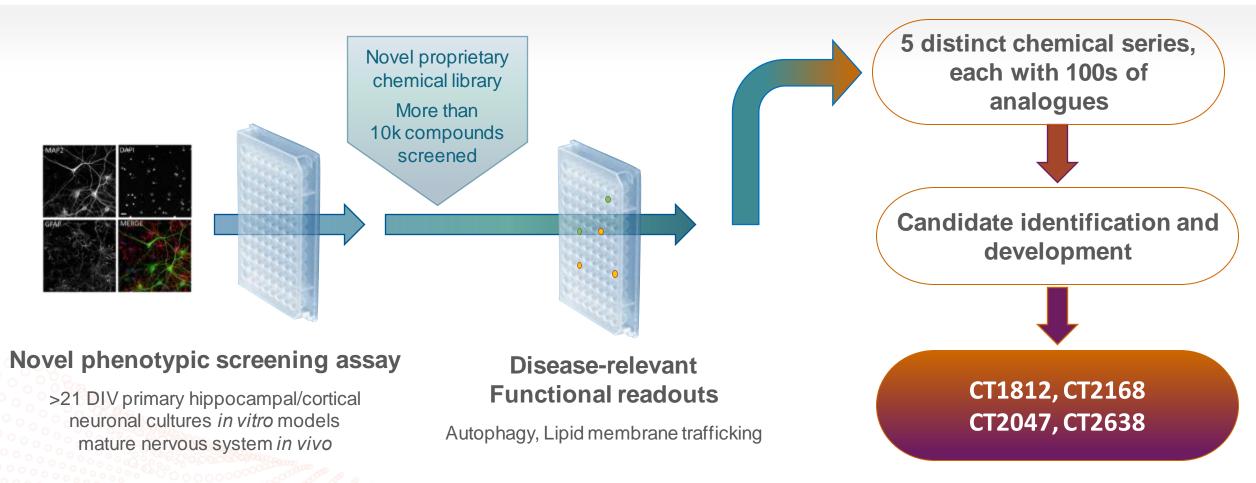
Cognition Library

LaBarbera, et al. A phase 1b randomized clinical trial of CT1812 to measure Aβ oligomer displacement in Alzheimer's disease using an indwelling CSF catheter. Transl Neurodegener 2023, 12(24)	Izzo, et al. Proceedings from the Fourth International Symposium on σ -2 Receptors: Role in Health and Disease. 7(6) ENEURO .0317-20.2020 1–7
Lizama, et al. Sigma-2 Receptors—From Basic Biology to Therapeutic Target: A Focus on Age-Related Degenerative Diseases. <i>Int. J. Mol. Sci.</i> 2023, 24(7), 6251	Limegrover, et al. Alzheimer's Protection Effect of A673T Mutation May Be Driven by Lower Aβ Oligomer Binding Affinity. <i>J Neurochem.</i> 2020; 00: 1–15
Colom-Cadena, et al. TMEM97 increases in synapses and is a potential synaptic Aβ binding partner in human Alzheimer's disease. <i>bioRxiv</i> 2021.02.01.428238	Colom-Cadena, et al. The clinical promise of biomarkers of synapse damage or loss in Alzheimer's disease. <i>Alz Res Therapy</i> 12, 21 (2020)
LaBarbera, et al. Modeling the mature CNS: A predictive screening platform for neurodegenerative disease drug discovery. <i>J Neurosci Methods.</i> 2021 Jul 1;358:109180.	Grundman, et al. A phase 1 clinical trial of the sigma-2 receptor complex allosteric antagonist CT1812, a novel therapeutic candidate for Alzheimer's disease. <i>Alzheimers Dement (N Y).</i> 2019 Jan 23; 5:20-26
Rishton, et al. Discovery of Investigational Drug CT1812, an Antagonist of the Sigma-2 Receptor Complex for Alzheimer's Disease. <i>ACS Med Chem Lett.</i> 2021 Aug 9;12(9):1389-1395.	Izzo, et al. Alzheimer's therapeutics targeting amyloid beta 1-42 oligomers II: Sigma- 2/PGRMC1 receptors mediate Abeta 42 oligomer binding and synaptotoxicity. <i>PLoS One</i> . 2014 Nov 12; 9(11):e111899
Izzo, et al. Preclinical and clinical biomarker studies of CT1812: A novel approach to Alzheimer's disease modification. <i>Alzheimer's Dement.</i> 2021 Aug; 17(8):1365-1382	Izzo, et al. Alzheimer's therapeutics targeting amyloid beta 1-42 oligomers I: Abeta 42 oligomer binding to specific neuronal receptors is displaced by drug candidates that improve cognitive deficits. <i>PLoS One</i> . 2014 Nov 12; 9(11):e111898
Limegrover, et al. Sigma-2 receptor antagonists rescue neuronal dysfunction induced by Parkinson's patient brain-derived α-synuclein. <i>J Neurosci Res.</i> 2021; 00: 1– 16.	

Therapeutics

Platform Enabled Therapeutics Company Built on Novel Library & Screening Assay

Extensive IP on candidates developed from foundational platform





Functional, Phenotypic Screening for Novel Drug Discovery

Novel library and screening assay lead to characterization of σ -2 in neurological disease

- Co-founders developed unique screening technology employed at Cognition
- Based on unbiased phenotypic screens in the target cell population of mature primary neurons
- Initial screens for compounds that stop or mitigate age-related damage led to the identification of CT1812
- Importantly this process also identified σ-2 receptors as key regulators of major damage response pathways integral to many neurodegenerative diseases

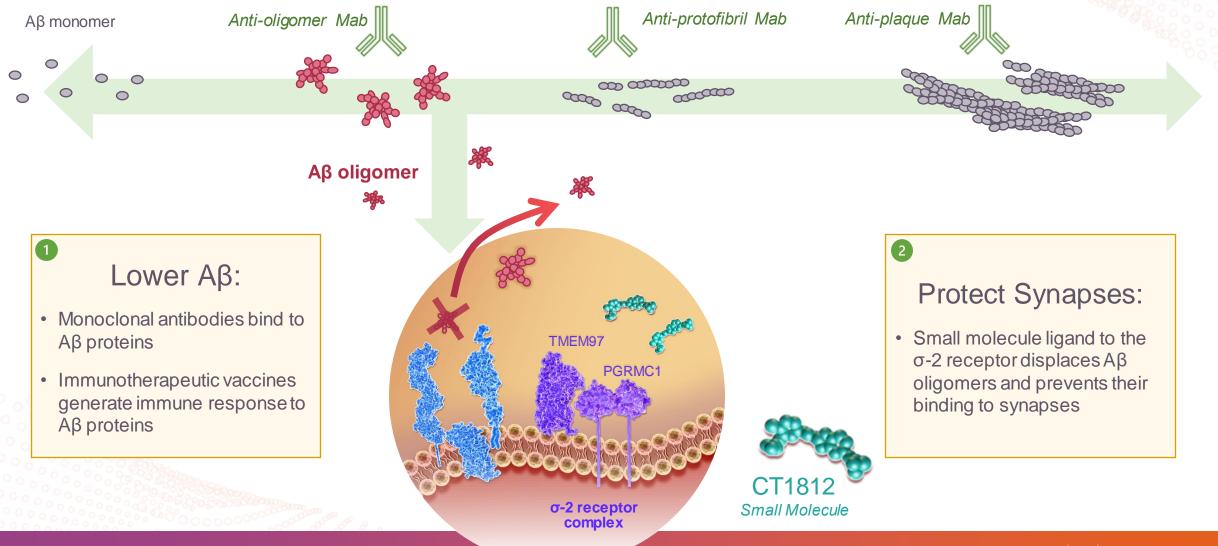


Alzheimer's Disease

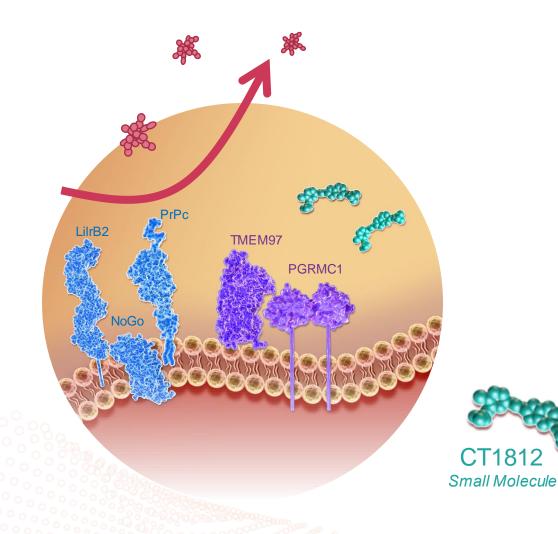
Our Approach



Multiple Approaches Address Toxic Interaction at the Receptor



CT1812 May Inhibit Oligomer-induced Toxicity



- Oral, QD small molecule
- Penetrates the blood-brain barrier (BBB)
- Binds selectively to the σ -2 receptor
- Displaces oligomers from neurons and prevents re-binding
- Facilitates restoration of neuronal function

- Izzo NJ, et al. Preclinical and clinical biomarker studies of CT1812. A novel approach to Alzheimer's disease modification. Alzheimer's Dement. 2021;1-18
- Izzo NJ, et al. Alzheimer's therapeutics targeting amyloid beta 1-42 oligomers II: Sigma-2/PGRMC1 receptors mediate Abeta 42 oligomer binding and synaptotoxicity PLoS One. 2014 Nov 12, 9(11):e111899
- Izo NJ, et al. Alzheimer's therapeutics targeting amyloid beta 1-42 oligomers 1: Abeta 42 oligomer binding to specific neuronal receptors is displaced by drug candidates that improve cognitive deficits PLoS One. 2014 Nov 12, 9(11):e111898
 - Limegrover, CS, et al. Abheimer's Protection Effect of A673T Mutation May Be Driven by Lower Aβ Oligomer Binding Affinity. J Neurochem. 2020, 00: 1– 15. doi:10.1111/jnc.15212



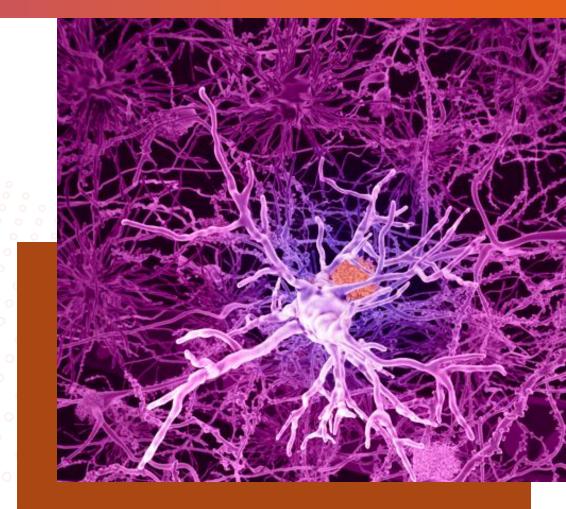
Our MoA Video





CT1812:

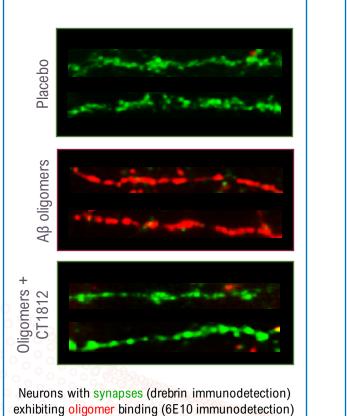
Results from our Alzheimer's Disease Program: *Preclinical*



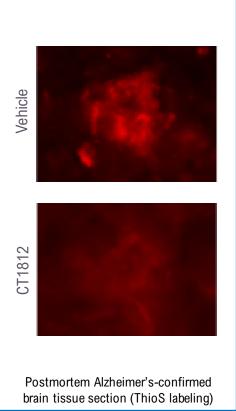


Rigorous Testing Supports Hypothesis

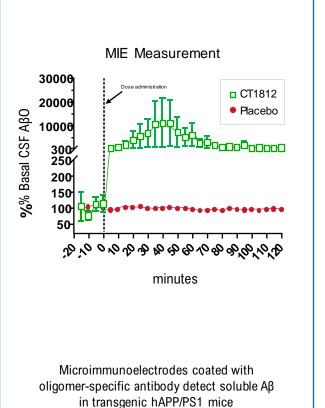




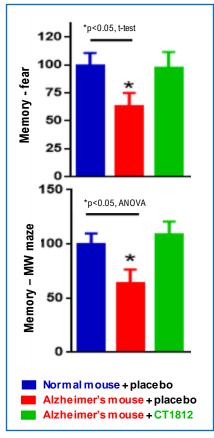
Displaces Oligomers from AD Patient Brain Tissue



Displaces Oligomers in Mouse Model of Alzheimer's Disease



Restores Cognitive Function in Mice



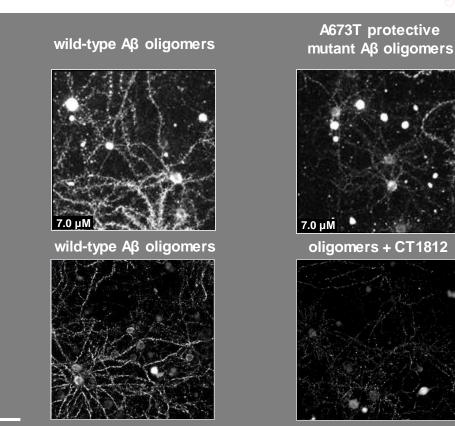


Izzo NJ et al. Preclinical and clinical biomarker studies of CT1812: A novel approach to Alzheimer's disease modification. Alzheimer's Dement. 2021 Aug; 17(8):1365-1382

Unique Protective Effect: A673T-APP Mutation Supports CT1812 MoA

Received: 16 June 2020 Revised: 30 September 2020 Accepted: 1 October 2020				
DOI: 10.1111/jnc.15212				
ORIGINAL ARTICLE				
Alzheimer's protection effect of A673T mutation may be driven by lower A β oligomer binding affinity				
Colleen S. Limegrover ¹ Harry LeVine III ² Nicholas J. Izzo ¹ Raymond Yurko ¹ Kelsie Mozzoni ¹ Courtney Rehak ¹ Kelsey Sadlek ¹ Hank Safferstein ¹ Susan M. Catalano ¹				

- First variant associated with protection against Alzheimer's disease¹ – 'Icelandic Mutation'
- Mutant Aβ oligomers bind with *four-fold lower affinity* to neuronal synapses than WT protein
- Carriers are *four times less likely* to get Alzheimer's disease than non-carriers²
- To our knowledge, CT1812 is the only drug that mimics the protective effects of this mutation

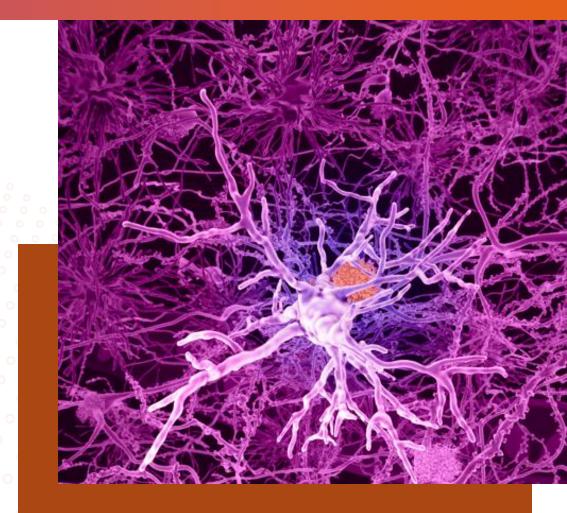


Scale bar = 20 microns



CT1812:

Results from our Alzheimer's Disease Program: *Clinical Findings*





Evidence Mounts of CT1812 Impact on Dementias

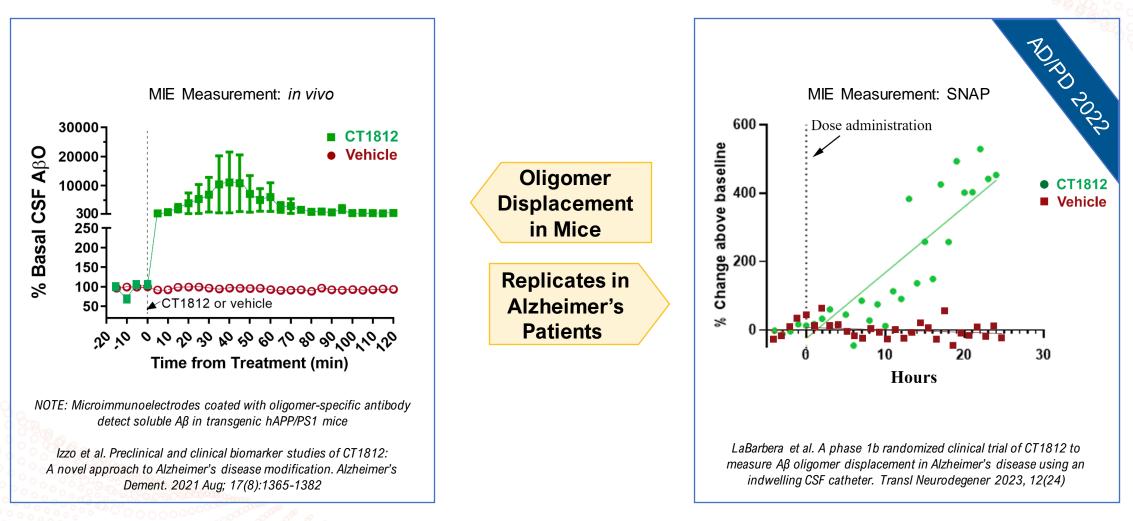
Studies of CT1812 to date present evidence of: SNAP¹ Target engagement Health SPARC³ Anatomical effect Neuro-Preliminary cognitive SHINE-A² improvement Amyloid SEQUEL⁴ Neurophysiology

- 1. AD/PD™ 2022
- 2. LaBarbera, et al. Transl Neurodegener 2023
- 3. SPARC results submitted for publication
- 4. Abstract of SEQUEL imaging results submitted for upcoming presentation



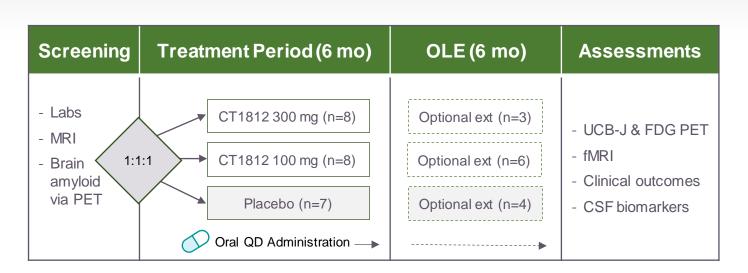
SNAP (COG0105): Demonstration of Target Engagement

Published in Translational Neurodegeneration in 2023



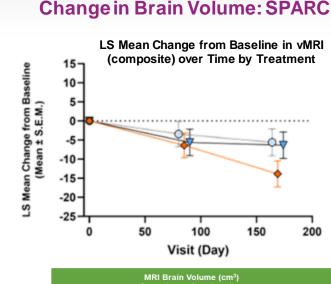


SPARC (COG0105): Evidence that Target Engagement has Anatomic Impact



Pls Christopher H. van Dyck, M.D. at the Yale Alzheimer's Disease Research Unit and Richard E. Carson, Ph.D. at the Yale PET Center

SPARC COG0105 study partially funded by NIA grant R01AG057553



MRI Brain Volume (cm³) 6-mo change from baseline			
	CT1812 (Pooled)	Placebo	P-value vs placebo
Hippocampus	-0.09 (0.08)	-0.40 (0.11)	0.0412
Prefrontal Cortex	-0.41 (0.95)	-4.80 (1.37)	0.0125
Pericentral Cortex	0.07 (0.53)	-2.90 (0.77)	0.0032

• Identified biomarkers altered by CT1812 treatment; two of top five relate to synapse health/function

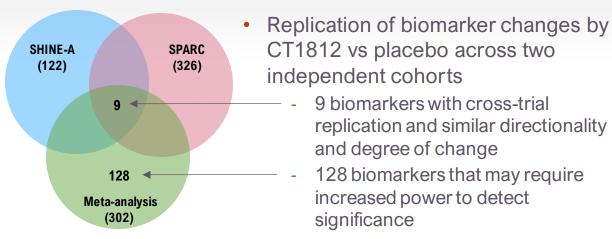


Presented at AD/PD 2023

Culmination of biomarker work previously presented at 2022 AAIC & AD/PD

- Results of a meta-analysis of CSF samples from Phase 2 SHINE & Phase 1b SPARC studies presented at AD/PD
- Identified biomarkers of CT1812 activity that replicated across two independent studies and patient cohorts
- Findings will inform our understanding of CT1812's impact on the pathways involved in Alzheimer's disease progression

Find it on the Cognition website

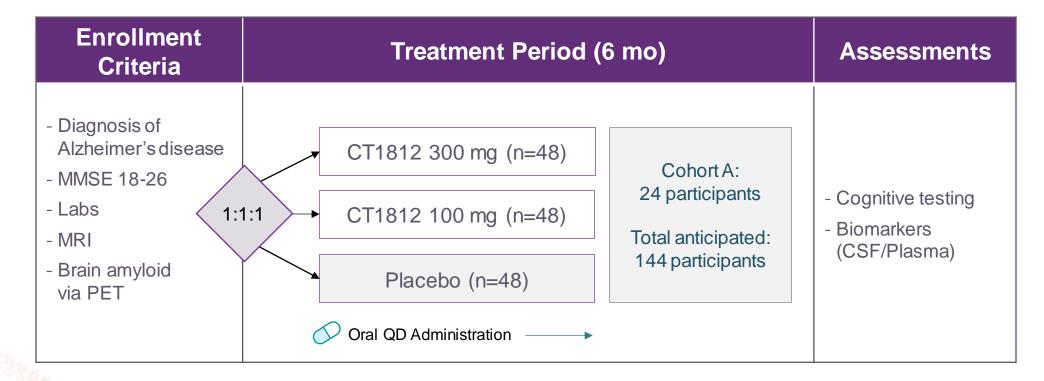


GO term	Biological Process (Replicated Biomarkers; CT1812 vs placebo)	strength	FDR p-value
GO:1902003	Regulation of amyloid-beta formation	2.14	6.00E-06
GO:1902430	Negative regulation of amyloid-beta formation	2.41	1.55E-05
GO:1902993	Positive regulation of amyloid precursor protein catabolic process	2.17	6.17E-05
GO:1905908	Positive regulation of amyloid fibril formation	2.82	9.19E-05
GO:0050808	Synapse organization	1.28	0.00089
GO:1900272	Negative regulation of long-term synaptic potentiation	2.35	0.00089
GO:1902947	Regulation of tau-protein kinase activity	2.31	0.00089
GO:1902950	Regulation of dendritic spine maintenance	2.35	0.00089
GO:0048638	Regulation of developmental growth	1.2	0.0015
GO:1900221	Regulation of amyloid-beta clearance	2.2	0.0015





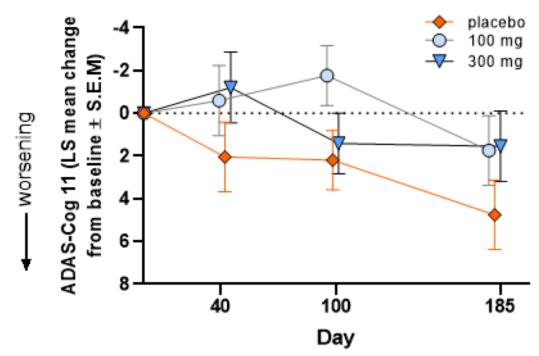
Phase 2 Safety and Efficacy Study in Adults with Mild-to-moderate Alzheimer's Disease



SHINE COG0201 study (NCT03507790) partially funded by \$31M NIA grant R01AG058660



SHINE Clinical Evidence of Cognitive Benefit



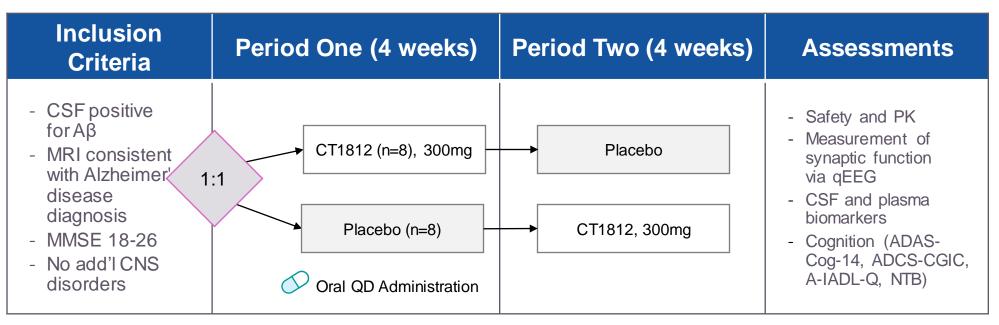
Cognitive Outcome

- SHINE interim analysis (n=24) yields promising evidence:
 - 3-point difference (ADAS-COG 11) between treated and untreated participants at Day 185
 - Clinically meaningful magnitude of change
 - Trend towards slower cognitive decline in CT1812-treated vs placebo-treated participants



SEQUEL (COG0202): Single-site qEEG Study in 16 Adults with Mild-to-moderate Alzheimer's Disease

Two-group cross-over design



https://clinicaltrials.gov/ct2/show/NCT04735536



Quantitative EEG refers to the analysis of digital EEG signals using sophisticated mathematical algorithms that can identify and differentiate between nuances of brain wave patterns.



SEQUEL Topline Results

Safety and tolerability profile consistent with previous studies



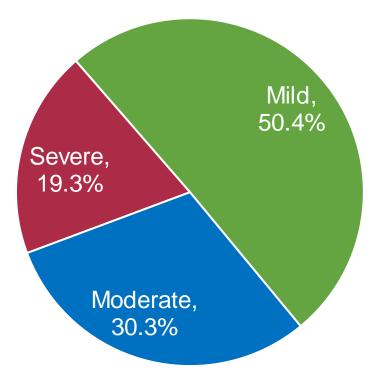


Expanding into *Early* Alzheimer's Disease



- Enrolling 540 adults with early-to-mild Alzheimer's disease
 - ~6.7 million in the U.S. have Alzheimer's, 50% with mild disease
- 50-60 U.S. sites including ACTC centers of excellence
- \$81M NIA grant award
- Opening sites 1H23

Stages of Disease Afflicting Current Population of Alzheimer's Patients

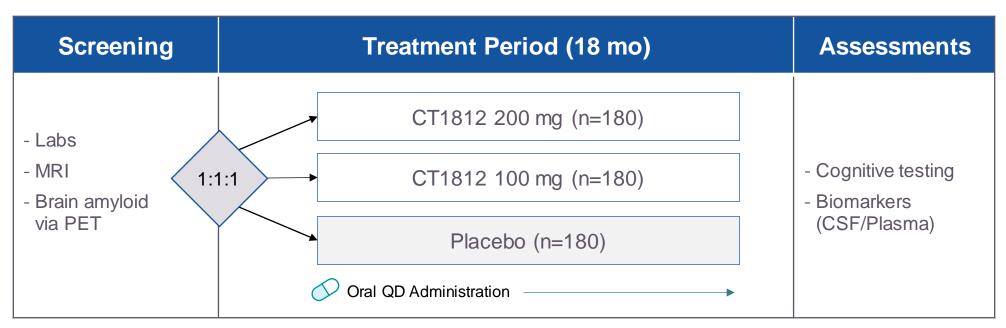








Conducted in collaboration with Alzheimer's Clinical Trials Consortium



START COG0203 study (NCT05531656) partially funded by \$81M NIA grant R01AG065248 ACTC funded by NIA grant U24AG057437

BREAKING **News**

First site activated in Phase 2 START Study ...



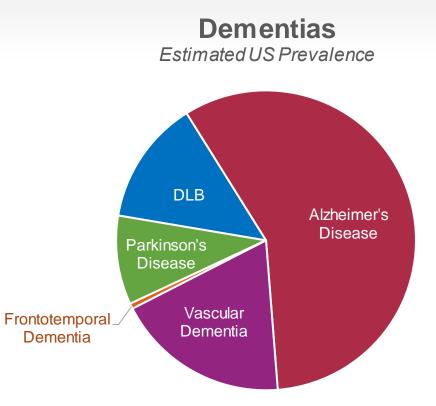
Dementia with Lewy Bodies (DLB)

Second Most Common Dementia



Synucleinopathies are 2nd only to AD in Prevalence

- In the U.S., approximately 13 million people have a form of dementia¹
 - Dementia with Lewy bodies (DLB): 1.4 million
 - Parkinson's disease: 1 million
- Direct healthcare costs:
 - DLB: \$31.5 billion²
 - PD: \$25 billion³



α-synuclein oligomers, which disrupt key cellular processes, are a hallmark of both disorders

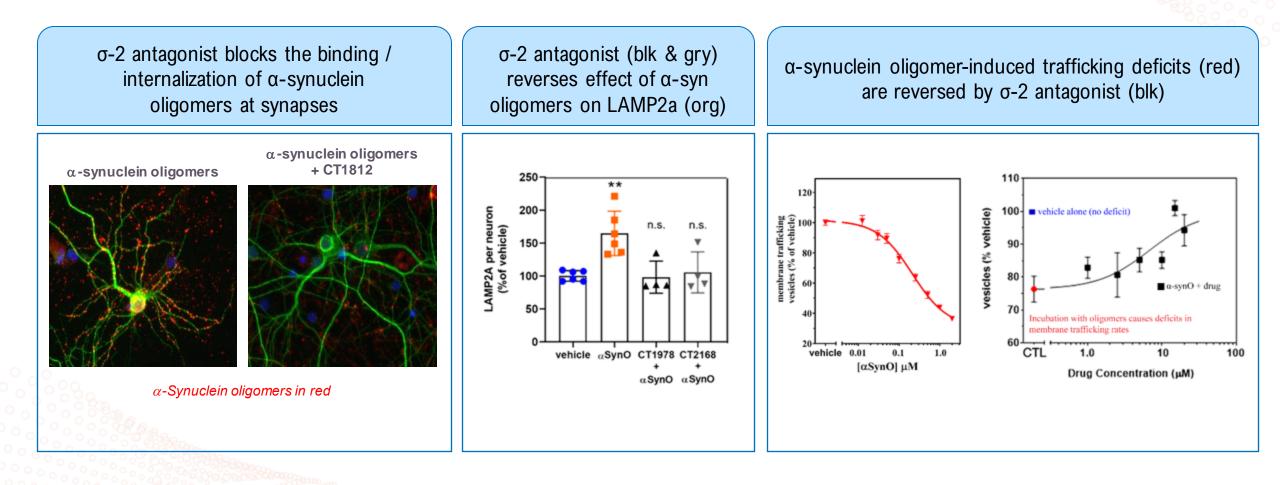
1) Milken Institute report: (2019) Reducing the Cost and Risk of Dementia: Recommendations to Improve Brain Health and Decrease Disparities.

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2) LBDA (extrapolated): <u>LBD is the Most Expensive Dementia in America and Yingjia Chen et al Alzheimers Dement. 2019</u>
 3) MJFF and The Lewin Group: <u>Economic Burden and Future Impact of Parkinson's Disease</u> (2019)

σ -2 Modulators May be Disease Modifying in Synucleinopathies

Cellular evidence that σ -2 modulators have a beneficial impact







Phase 2 Safety and Efficacy Study in Adults with Mild-to-moderate DLB

Conducted in collaboration with Lewy Body Dementia Association & U Miami



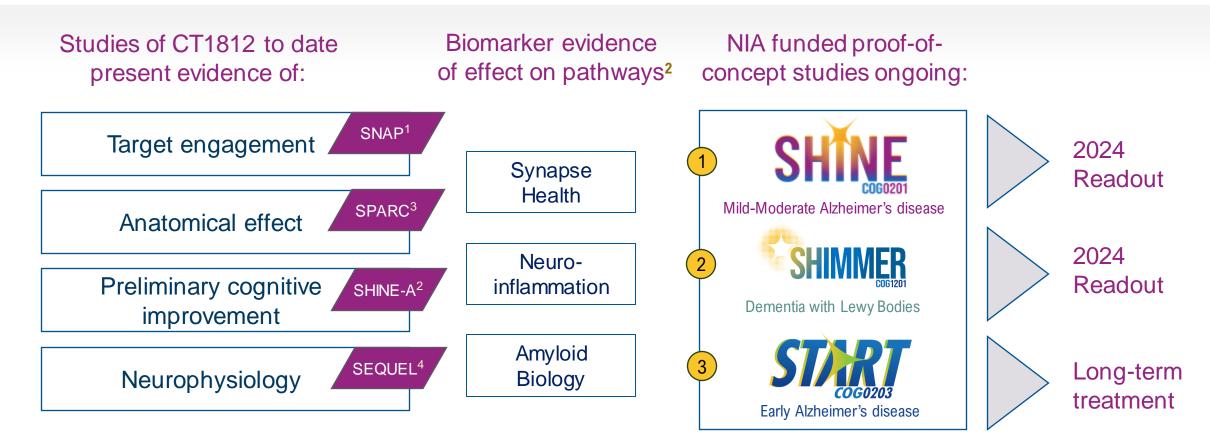
Enrollment Criteria	Treatment Period (6 mo)	Assessments
- DLB diagnosis	CT1812 300 mg (n=40)	Sofoty
- MRI - EEG	CT1812 100 mg (n=40)	 Safety Cognitive and functional testing
- MMSE: 18-27	Placebo (n=40)	- Biomarkers
	Oral QD Administration	

Principal investigator: James E. Galvin, MD, MPH, professor of neurology and director of the Comprehensive Center for Brain Health

SHIMMER COG1201 study (NCT05225415) partially funded by \$30M NIA grant R01AG071643



Evidence Mounts of CT1812 Impact on Dementias



- 1. AD/PD™ 2022
- 2. LaBarbera, et al. Transl Neurodegener 2023
- 3. SPARC results submitted for publication
- 4. Abstract of SEQUEL imaging results submitted for upcoming presentation



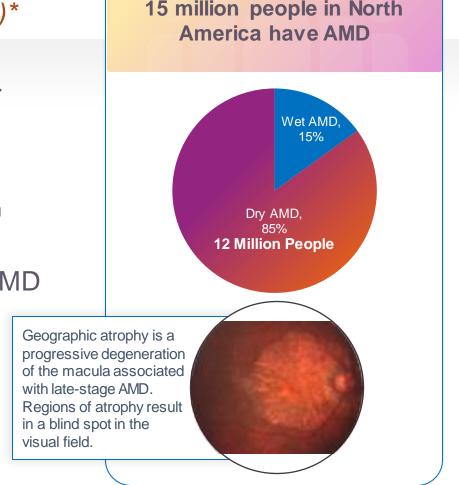
Dry Age-related Macular Degeneration (dry AMD)



Dry AMD and Geographic Atrophy

Leading cause of severe vision loss in people over 50 (AAO)*

- AMD is the leading cause of blindness in people over 60yr
- Dry AMD is a progressive condition and accounts for up to 90% of all AMD cases
 - Advanced dry AMD, or GA, affects approximately two million people in the U.S.
- Unlike wet AMD, there is only one approved drug for dry AMD
 - Until 2023, dietary supplements were SoC
 - For reference, wet AMD market is \$7 billion worldwide





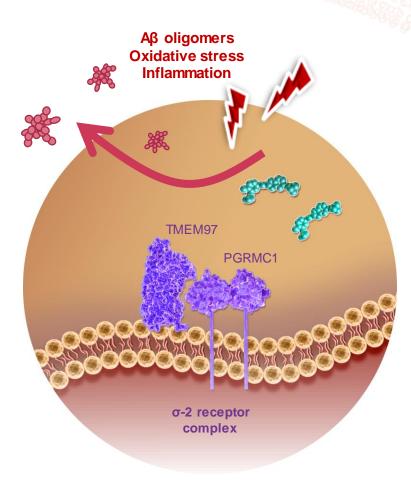
* American Academy of Ophthalmology

Rationale for σ -2 Modulators in Geographic Atrophy

Goal: Protect RPE cells from disease-relevant stressors

σ-2 receptors:

- Expression: in RPE cells, retinal ganglion cells, photoreceptors in retina
- Biology: regulates autophagy, protein trafficking, lipid metabolism dysregulated in AMD
- Target validation: TMEM97 knockdown is protective
- Human genetics: linked to dry AMD
- Biomarker evidence from AD trials





Our Findings are Supported in Literature



Cellular Signalling Volume 86, October 2021, 110078



degeneration..."

TMEM97 ablation aggravates oxidant-induced retinal degeneration

<u>Hongtao Shen</u>^{a 1}, Jing Li^{a 1}, Tyler Heisler-Taylor^b, Ryan Makin^{c d}, <u>Huan Yang</u>^e, <u>Timur A. Mavlyutov^e, Bradley Gelfand^{c d f}, Colleen M. Cebulla^b ♀ ⊠, Lian-Wang Guo^{a d} ♀ ⊠</u>

"We observed increased RPE damage and photoreceptor loss in TMEM97 KO (vs WT) mice treated with NaIO3. Similarly, knockout of TMEM97 in RPE cells *in vitro* exacerbated oxidative stress..."



International Journal of Molecular Sciences MDPI

Article

Development of a CRISPRi Human Retinal Pigmented Epithelium Model for Functional Study of Age-Related Macular Degeneration Genes

Jiang-Hui Wang ^{1,2,†}, Daniel Urrutia-Cabrera ^{1,2,†}, Jarmon G. Lees ^{3,4}, Santiago Mesa Mora ^{1,2}, Tu Nguyen ^{1,2}, Sandy S. C. Hung ^{1,2}, Alex W. Hewitt ^{1,2,5}, Shiang Y. Lim ^{3,4}, Thomas L. Edwards ^{1,2} and Raymond C. B. Wong ^{1,2,4}.

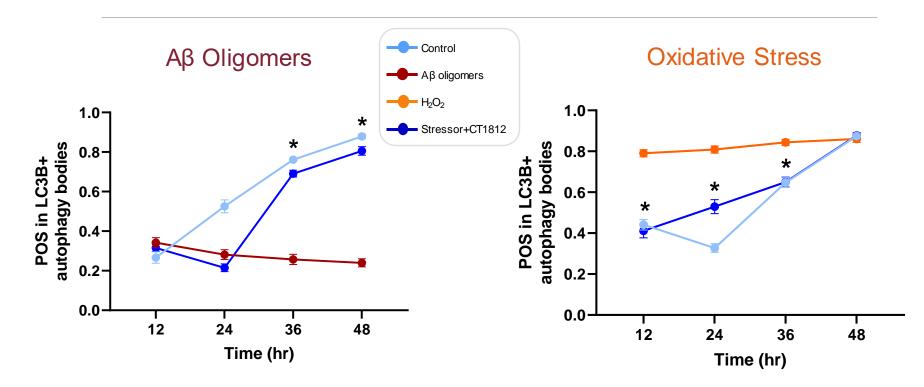
"our results provide the first evidence that TMEM97 plays an important role in regulating oxidative stress and cell survival of human RPE..."

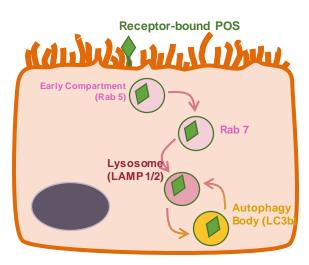




σ-2 Receptor Modulators Rescue Lysosomal Trafficking Deficits in RPE

CT1812 rescues crucial function of RPE to traffic & degrade photoreceptor outer segments cargos following toxic insults

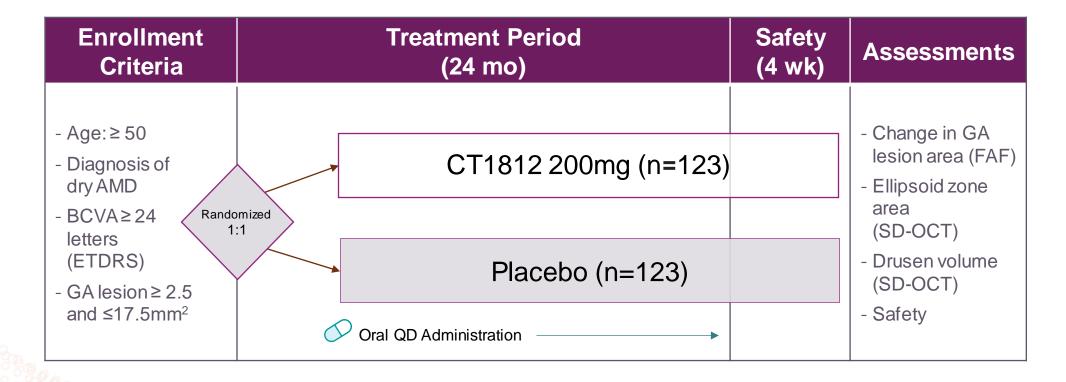




Malagise E et al. Sigma-2 receptor modulators rescue POS trafficking deficits in RPE cell-based models of dry AMD. Poster presented at: 2022 ARVO



Magnify Phase 2 will Assess CT1812 in GA Secondary to Dry AMD



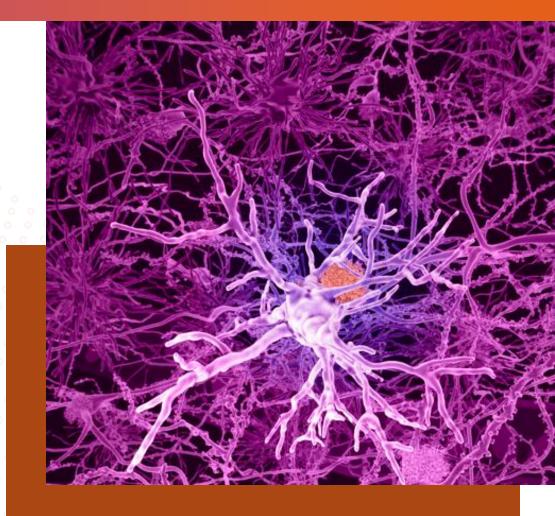
BREAKING

News

First participant dosed in Phase 2 MAGNIFY Study ...



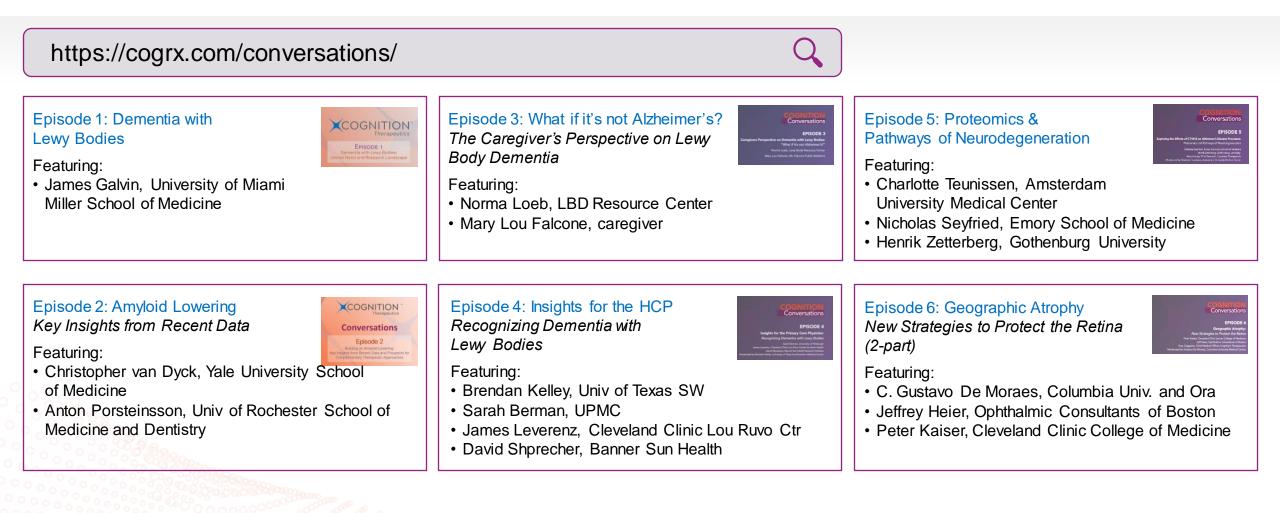
Closing Comments





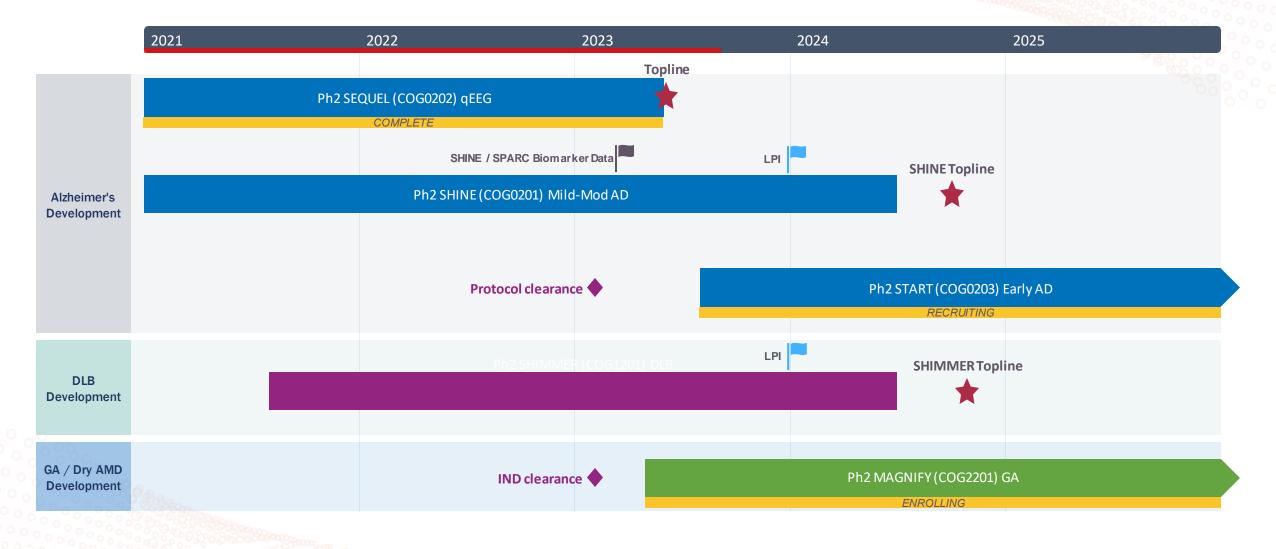
"Conversations"

A Cognition Therapeutics Podcast Series





Multiple Near-term Catalysts





Financial Position

Financials as of June 30, 2023

- Cash and Cash Equivalents:
- Expected cash runway through third quarter of 2024

\$37.2 million

\$81.8 million

Grant funding for CT1812 studies as of June 30, 2023

- Preclinical through Phase 2: appx \$171.0 million
 - Approximate funding used: <u>(\$89.2 million)</u>
 - Remaining grant funding:





Cognition Therapeutics - in Summary



Targeting unmet needs in age-related degenerative disorders of the CNS and retina such as Alzheimer's disease, DLB, GA secondary to dry AMD, and Parkinson's disease



Functionally distinct the rapeutic approach focused on the σ -2 receptor complex, backed by decades of expertise in the biology of synaptic function and plasticity



Received over \$170 million in non-dilutive grant funding through key collaborations with the NIA and other thought-leading institutions



Multiple Phase 2 programs expected to conclude with data read-outs over the next 12 to 24 months



Seasoned management team with broad scientific, drug development and commercial expertise; experienced board and advisors



Thank You

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