



Alector Corporate Overview

January 2023

Forward-Looking Statement

This presentation contains forward-looking statements that involve substantial risks and uncertainties. All statements other than statements of historical facts contained in this presentation are forward-looking statements. In some cases, you can identify forward-looking statements by terminology such as “anticipate,” “believe,” “continue,” “could,” “estimate,” “expect,” “intend,” “may,” “plan,” “potentially,” “predict,” “should,” “will” or the negative of these terms or other similar expressions. Forward-looking statements contained in this presentation also include, but are not limited to, statements regarding: our future financial condition, results of operations, business strategy and plans, plans, timelines and expectations related to our product candidates and our other clinical and pre-clinical programs, including with respect to the availability of data, the initiation of future clinical trials and plans and expectations regarding planned regulatory filings with respect to such programs; and objectives of management for future operations, as well as statements regarding industry trends.

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 and financial needs. These forward-looking statements are subject to a number of risks, uncertainties and assumptions, including, among other things: Alektor’s plans relating to the development and manufacturing of its product candidates and research programs; the ability of Alektor, Inc.’s (“Alektor”) clinical trials to demonstrate safety and efficacy of its product candidates, and other positive results; the timing and focus of Alektor’s future clinical trials, and the reporting of data from those trials; Alektor’s plans relating to commercializing its product candidates, if approved, including the geographic areas of focus and sales strategy; the expected potential benefits of strategic collaborations with third parties and Alektor’s ability to attract collaborators with development, regulatory and commercialization expertise; Alektor’s estimates of the number of patients in the United States who suffer from the diseases it is targeting and the number of patients that will enroll in its clinical trials; the size of the market opportunity for Alektor’s product candidates in each of the diseases it is targeting; Alektor’s ability to expand its product candidates into additional indications and patient populations; the success of competing therapies that are or may become available; the beneficial characteristics, safety, efficacy, and therapeutic effects of Alektor’s product candidates; the timing or likelihood of regulatory filings and approvals, including Alektor’s expectation to seek special designations, such as orphan drug designation, for its product candidates for various diseases; Alektor’s ability to obtain and maintain regulatory approval of its product candidates; Alektor’s plans relating to the further development and manufacturing of its product candidates, including additional indications that it may pursue; existing regulations and regulatory developments in the United States and other jurisdictions; Alektor’s continued reliance on third parties to conduct additional clinical trials of its product candidates, and for the manufacture of its product candidates for preclinical studies and clinical trials; and the other risks, uncertainties and assumptions discussed in the public filings we have made and will make with the Securities and Exchange Commission (“SEC”). These risks are not exhaustive. New risk factors emerge from time to time and it is not possible for our management to predict all risk factors, 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, or implied by, any forward-looking statements. You should not rely upon forward-looking statements as predictions of future events. Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee future results, levels of activity, performance or achievements.

This presentation also contains results based on data from our clinical trials. These clinical trials are ongoing and this presentation does not speak to, and you should make no assumptions about, any additional data. In addition, the information we have chosen to publicly disclose regarding our product candidates has been selected from a more extensive amount of available information. You or others may not agree with what we determine is the material or otherwise appropriate information to include in our disclosure, and any information we determine not to disclose may ultimately be deemed significant with respect to future decisions, conclusions, views, activities or otherwise. If the initial data that we report differ from updated, late, final or actual results, or if others, including regulatory authorities, disagree with the conclusions reached, our ability to obtain approval for, and commercialize our other product candidates may be harmed, which could harm our business, financial condition, results of operations and prospects.

Except as required by law, we undertake no obligation to update any statements in this presentation for any reason after the date of this presentation.

We have filed Current Reports on Form 8-K, Quarterly Reports on Form 10-Q, Annual Reports on Form 10-K, and other documents with the SEC. You should read these documents for more complete information about us. You may obtain these documents for free by visiting EDGAR on the SEC website at www.sec.gov.

This presentation discusses certain investigational therapeutic agents, which have not yet been approved for marketing by the U.S. Food and Drug Administration. No representation is made as to the safety or effectiveness of our product candidate for the therapeutic use for which it is being studied.

This presentation contains statistical data based on independent industry publications or other publicly available information, as well as other information based on our internal sources. We have not independently verified the accuracy or completeness of the data contained in these industry publications and other publicly available information. Accordingly, we make no representations as to the accuracy or completeness of that data.

Translating Scientific Insights into a Broad Portfolio of First-in-Class Programs

NOVEL APPROACH

Founded to pioneer a new field of research: **Immuno-neurology**

Informed by **neuroscience, human genetics and immunology**

Substantial IP portfolio established: *41 issued patents, 500+ patent applications*

MULTIPLE CLINICAL TRIALS

PGRN Phase 3 Program for FTD-GRN
TREM2 Phase 2 Program for Early AD

PGRN Phase 2 Program for FTD-C9orf72
MS4A Phase 1 Program for AD

Pre-Clinical Portfolio and Discovery Platform
Multiple immuno-neurology and oncology opportunities

WORLD CLASS PARTNERS

\$700M upfront
\$1.5B+ milestone
50-50 U.S. profit share
Tiered double-digit royalties ex-U.S.



\$205M upfront payment
\$20M equity investment
\$986M milestone payments
Global 50-50 profit share



STRONG FINANCIALS

**\$758 MILLION IN CASH:
RUNWAY THROUGH 2025**

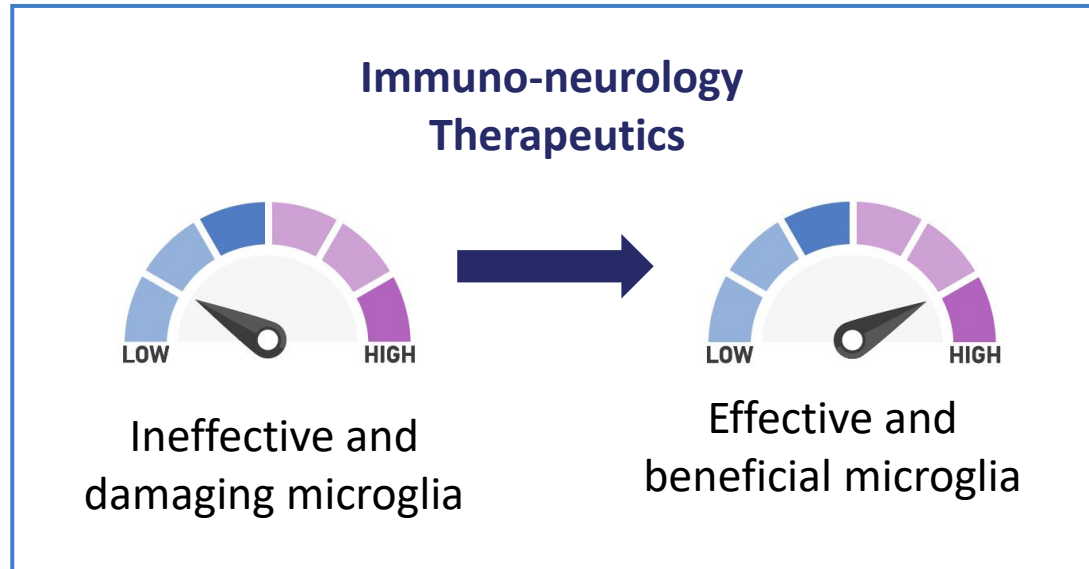


FTD = Frontotemporal dementia, PD = Parkinson's Disease, AD = Alzheimer's Disease

Note: As of September 30, 2022, Alector's cash, cash equivalents and investments totaled \$758.3 million.

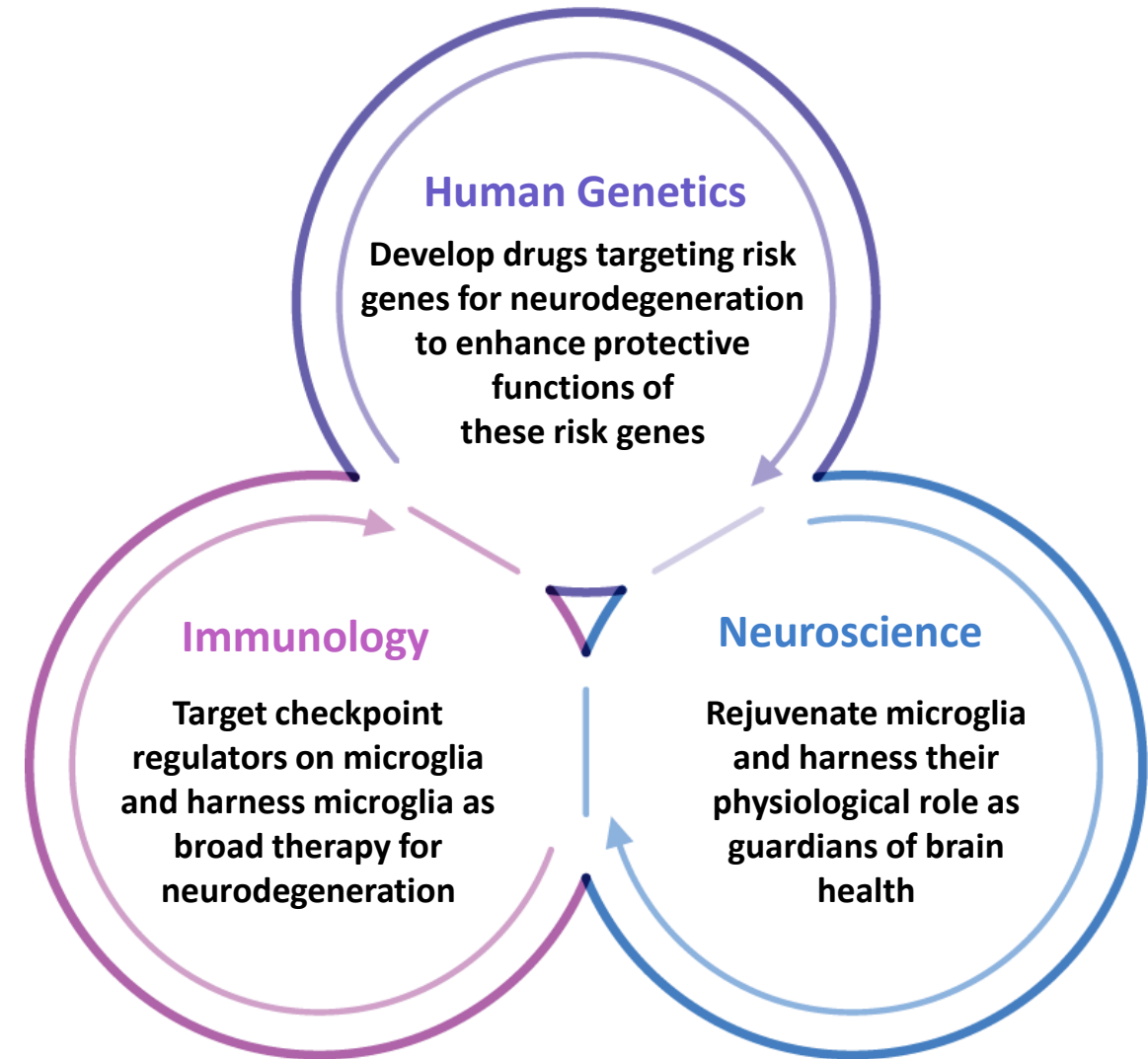
Immuno-Neurology: Alector's Therapeutic Strategy for Degenerative Brain Disorders

Recruiting microglia, the brain's immune system, to potentially cure neurodegeneration



Alector is applying the immuno-oncology concept of harnessing the immune system as a broad and potentially effective and long-lasting therapeutic approach

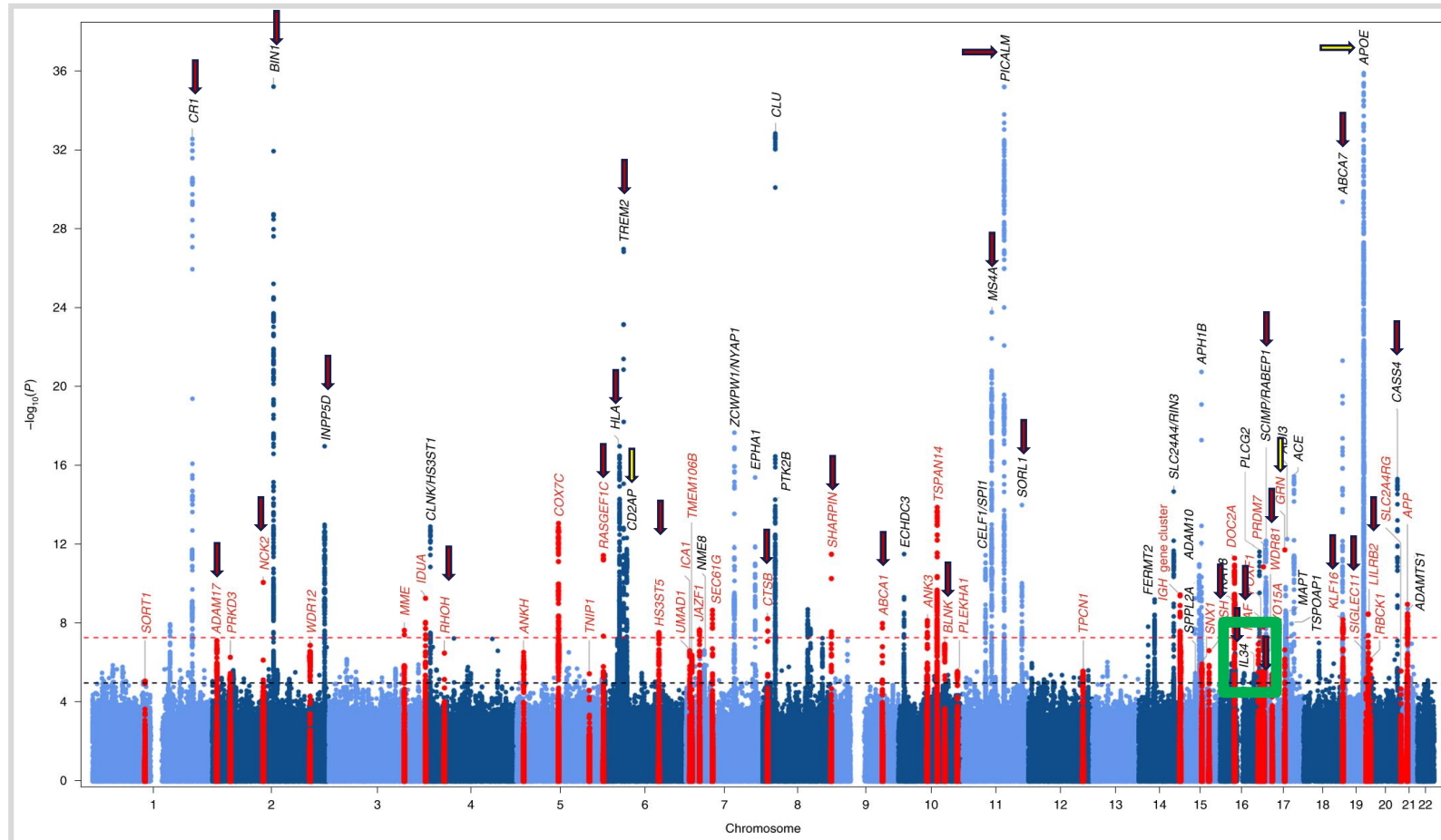
Multiple first-in-class programs are in or entering the clinic for neurodegenerative diseases



Immuno-neurology: targeting the brain immune system as a novel therapeutic strategy for dementia and neurodegeneration

Genetic Rationale for Immuno-Neurology: Many Familiar Risk Genes for Alzheimer's Disease are Checkpoint Proteins for the Microglia Brain Innate-Immune System

Most AD risk genes are microglia regulators (Arrows)



Biological Rationale for Immuno-Neurology: Microglia are Essential for Brain Health in Humans

Loss of microglia due to CSF1R mutations leads to neurodegeneration "Adult-Onset Leukoencephalopathy"

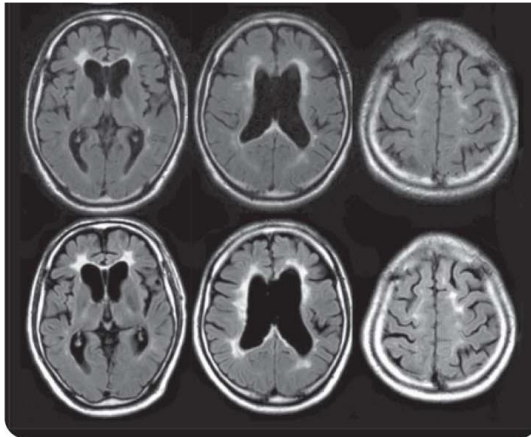
Results in microglial dysfunction, damage to white matter, high levels of NfL, rapid cognitive decline and early death

Patients experience range of psychiatric, neurocognitive, and motor symptoms

Average age of onset is ~43; Patients are disabled within ~4 years and die in ~5-6 years

Rapid brain tissue loss

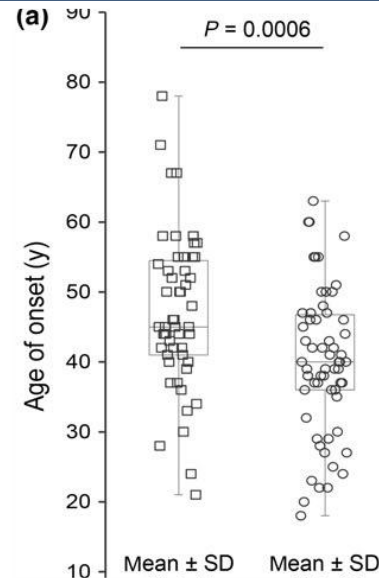
54 yo
1 year after onset



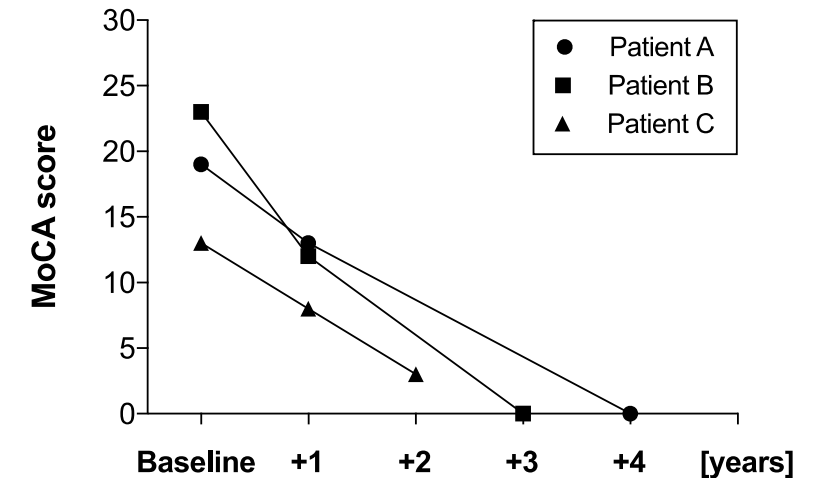
57 yo
4 years after onset

MRI shows dilation of brain ventricles

~ 6 Year Survival Rate



Rapid Cognitive Decline



Alector's Discovery Platform for Genetically Validated Microglia Checkpoint Targets

IDENTIFY FAMILIAL GENETIC RISK VARIANTS FOR NEURO-DEGENERATION

Germline genetics of Alzheimer's, Parkinson's, FTD, ALS, MS

DETERMINE GENE AND PROTEIN EXPRESSION SIGNATURES & KO/KI PHENOTYPE

7k Proteins, 20K genes, iPSC, CRISPR AI in house & public databases

TEST DRUGS IN DISEASE MODELS

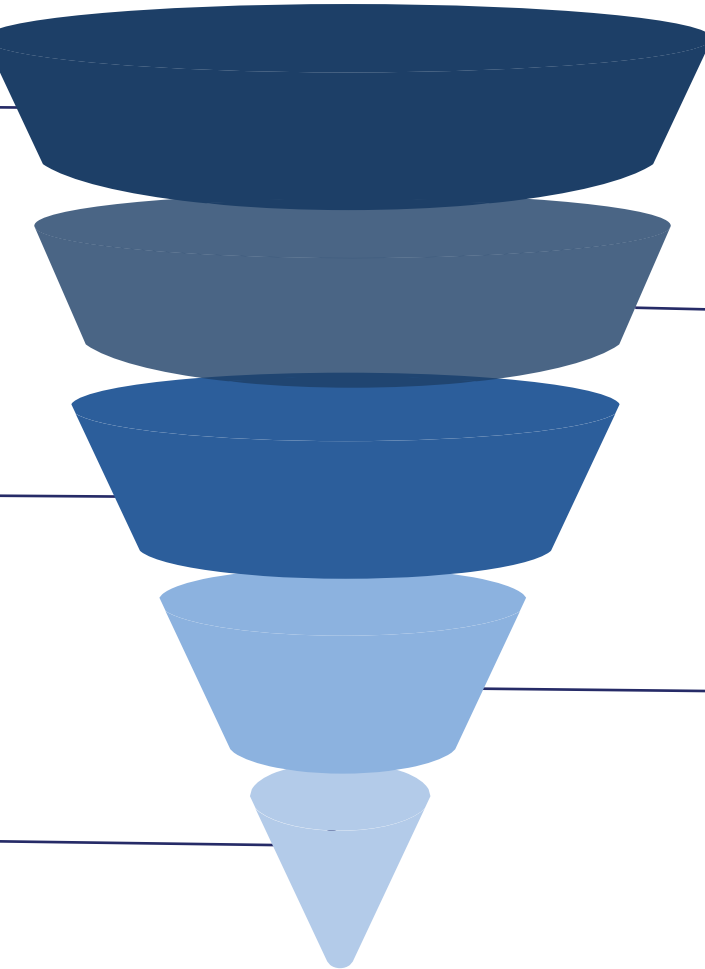
Efficacy & safety

SELECT SUBSET THAT REGULATE IMMUNE SYSTEM

RNAseq, KO in models, iPSC, CRISPR AI

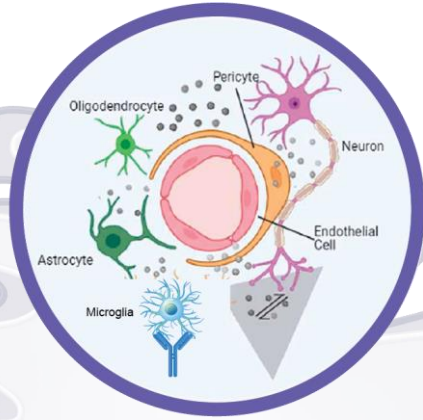
DEVELOP DRUGS THAT MIMIC THE SIGNATURE & FUNCTION OF THE PROTECTIVE GENETIC VARIANT

Drugs expression signature and phenotype

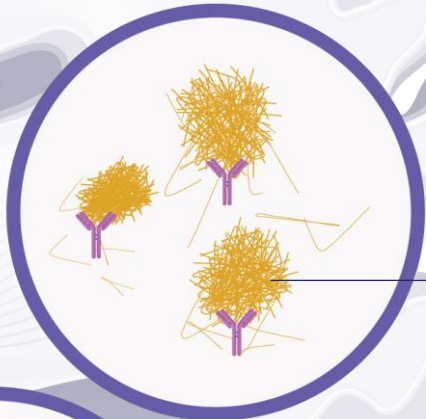


Alector clinical programs

Alector's Checkpoint Therapies Anticipated to Act Independently and in Combination

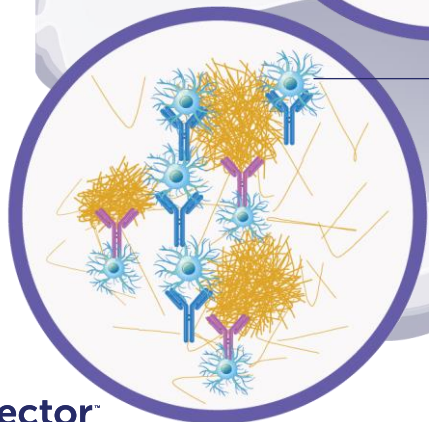


Our therapies seek to harness microglia to improve the functionality of neurons, oligodendrocytes, astrocytes, endothelial cells and blood vessels, and to remove debris, misfolded proteins and recycle damaged synapses.



Anti-A β -antibodies (or Abs against Tau, α -Synuclein, TDP43) mark misfolded aggregates and recruit microglia to remove them.

beta-amyloid or other misfolded proteins

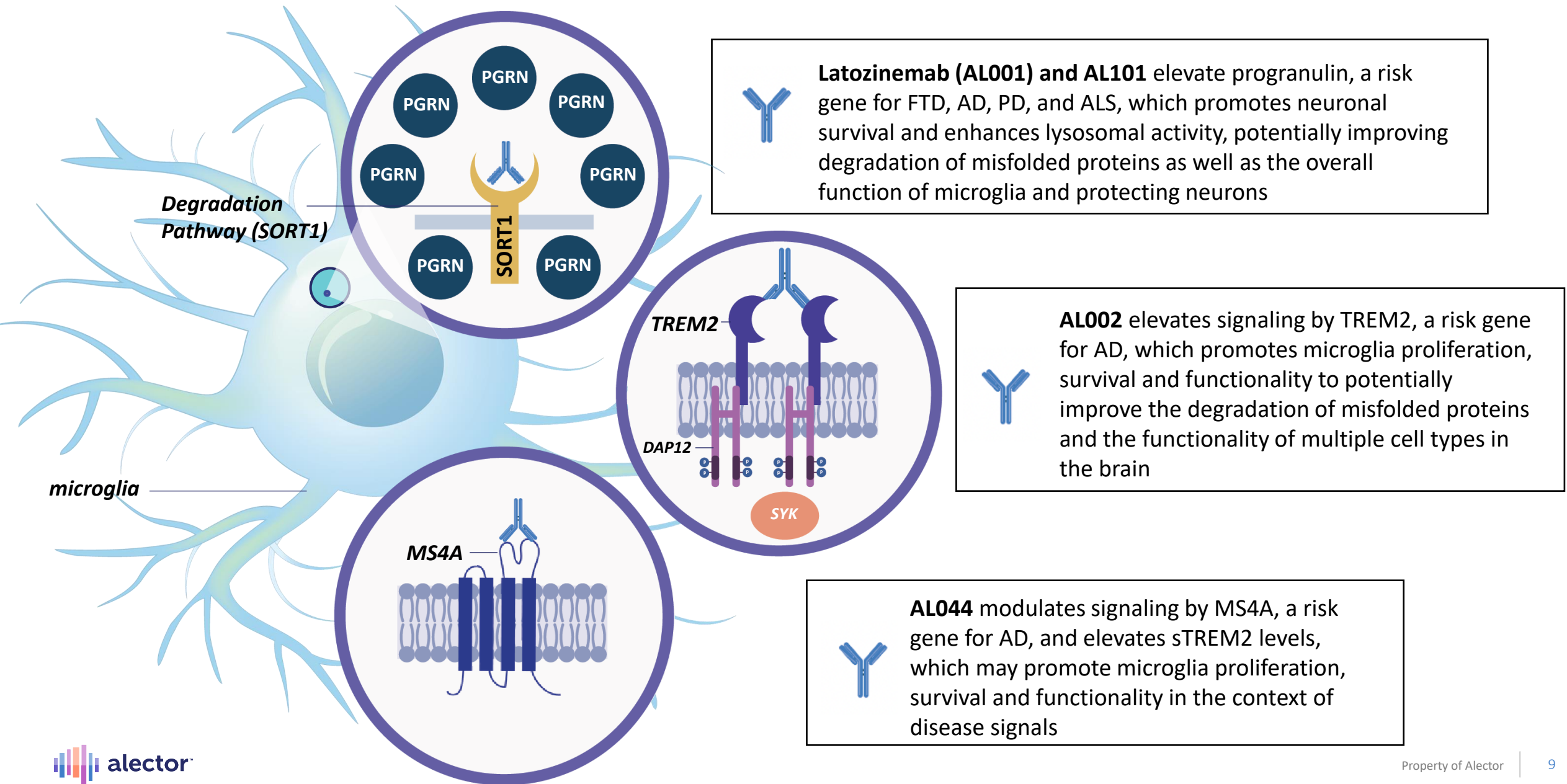


microglia









Our therapies are expected to enhance microglia's ability to remove misfolded proteins in conjunction with Abs that tag these proteins.

Alector's Three Clinical Stage Neurodegenerative Disease Programs



First-in-Class Portfolio of Product Candidates Targeting the Innate Immune System

TARGET	CANDIDATE	RESEARCH	PRECLINICAL	PHASE 1	PHASE 2	PHASE 3	COMMERCIAL RIGHTS
PGRN	AL001	FTD-GRN >					GSK 
	AL001	FTD-C9orf72 >					GSK 
	AL001	ALS* >					GSK 
	AL101	Healthy volunteers for AD and PD >					GSK 
TREM2	AL002	Alzheimer's disease >					abbvie 
MS4A	AL044	Alzheimer's disease >					
	AL044	Orphan neuro indication >					
Multi-Siglec	AL009	Solid tumors >					
SIRP-alpha	AL008	Solid tumors >					Innovent (China) 

Target indications include AD, PD, FTD, MS & cancer

12+ programs



AD = Alzheimer's disease
 PD = Parkinson's disease
 FTD = Frontotemporal dementia
 ALS = Amyotrophic lateral sclerosis
 MS = Multiple sclerosis
 AL001=latozinemab

IP portfolio contains 50+ patent application families, which include 41 issued patents and >500 pending patent applications directed to more than 20 targets and/or technologies

**In partnership with GSK, the company made a strategic, non-safety related decision to close enrollment in the ALS-C9orf72 Phase 2a biomarker trial and is currently evaluating plans for a new study.*

Progranulin Franchise Programs

Latozinemab (AL001) – Phase 3

AL101 – Phase 1

Latozinemab (AL001) and AL101: Raising Levels of Progranulin for Potential Benefit

Mechanism

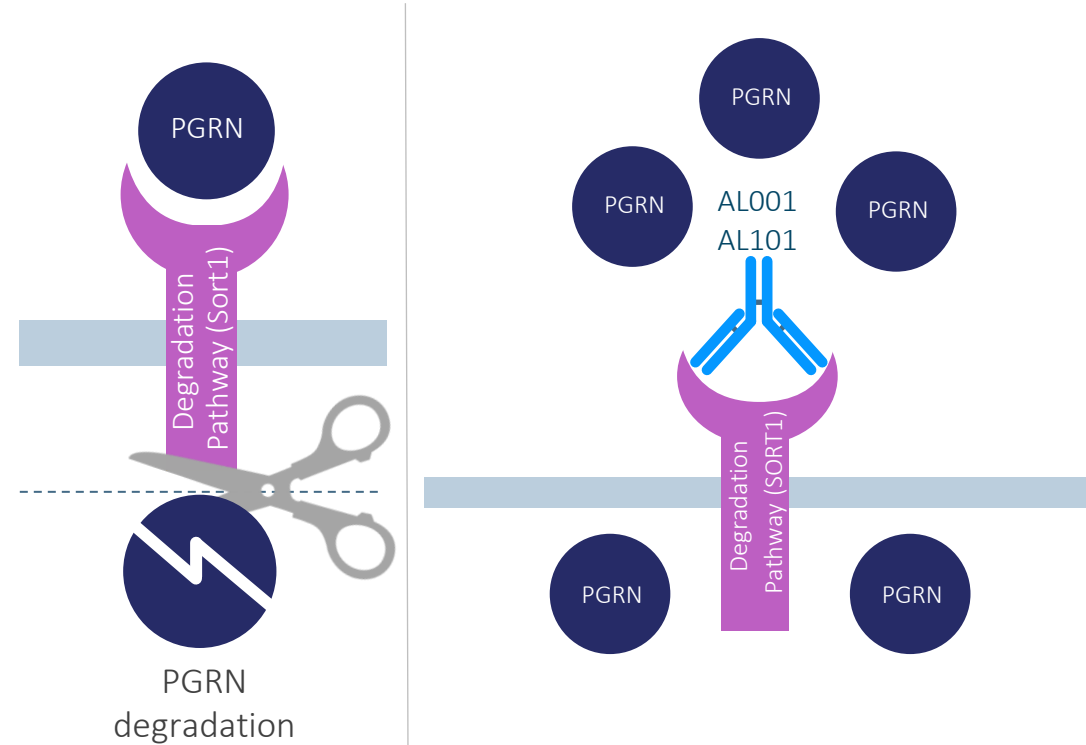
- Increases the half-life of PGRN by blocking Sortilin, a degradation receptor, in order to raise PGRN to normal levels

Latozinemab (AL001) Status

- Phase 1 studies of AL001 in healthy volunteers are complete
- Data presented from ongoing Phase 2 study in FTD-GRN and FTD-C9orf72
- Orphan Drug and Fast Track Designation
- Pivotal Phase 3 study in FTD-GRN actively enrolling

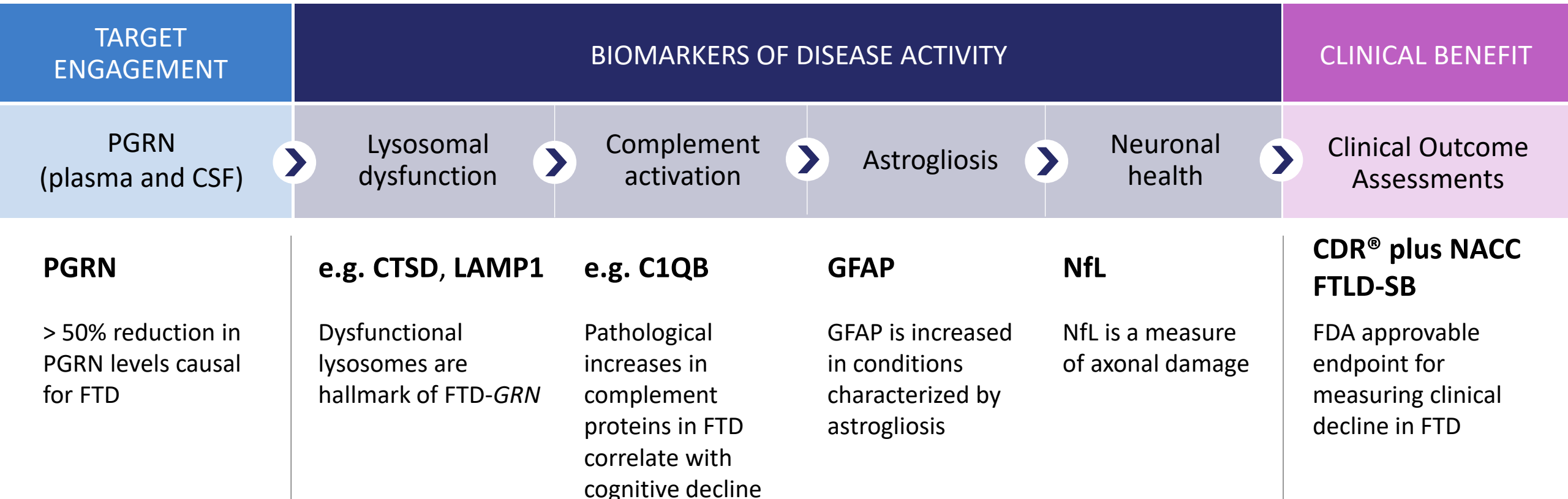
AL101 Status

- Phase 1 study of AL101 in healthy volunteers is complete
- Commencing preparatory work for Phase 2 in AD



Trials of FTD-GRN with Latozinemab Make Use of Multiple Biomarkers Linked to Potential MoA and Efficacy

Key biomarkers and clinical outcome assessments reflect underlying disease activity in FTD-GRN patients

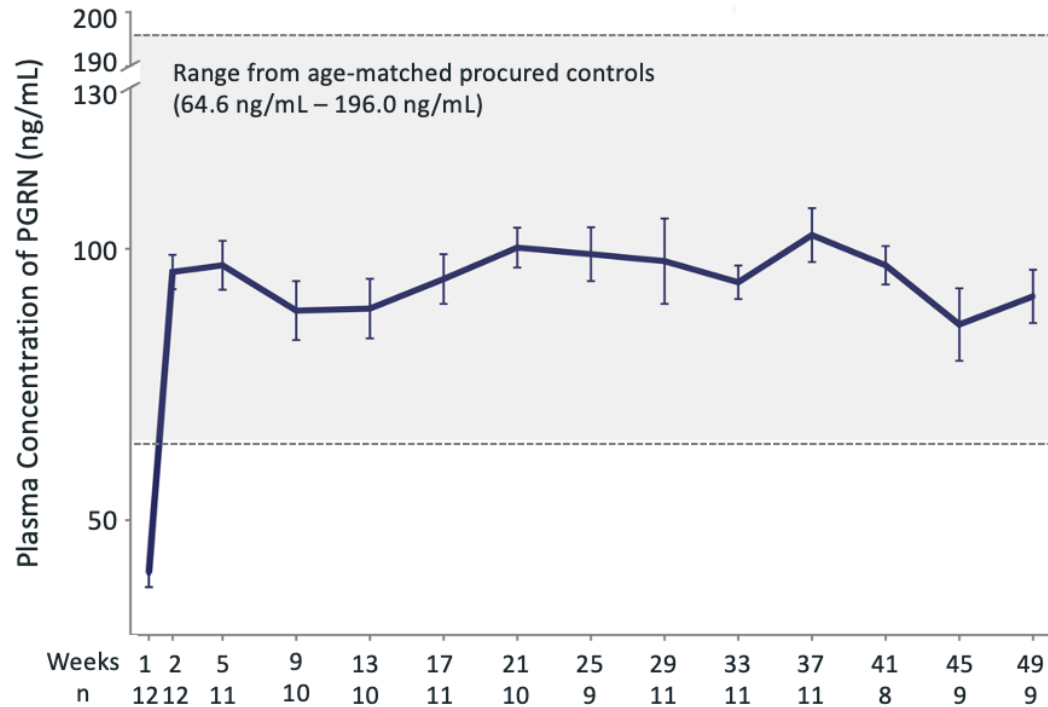


CTSD = cathepsin D; LAMP1 = lysosomal associated membrane protein 1; C1QB = complement C1q B chain; GFAP = glial fibrillary acidic protein NfL = neurofilament light chain;
 CDR® plus NACC FTLD-SB: Clinical Dementia Rating (CDR) dementia staging instrument plus National Alzheimer’s Coordinating Center (NACC) behavior and language domains frontotemporal lobar degeneration (FTLD) sum of boxes (SB)

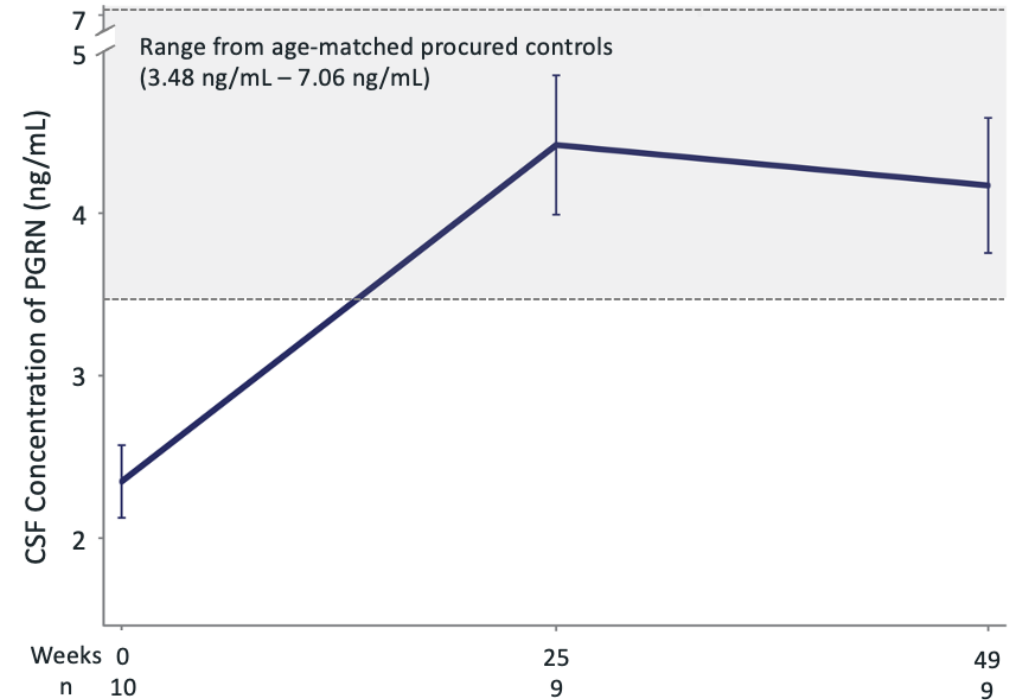
INFRONT-2: Latozinemab Restores PGRN in Plasma and CSF to Normal Levels in Symptomatic FTD-GRN

TARGET ENGAGEMENT

PGRN Plasma Concentration



PGRN CSF Concentration

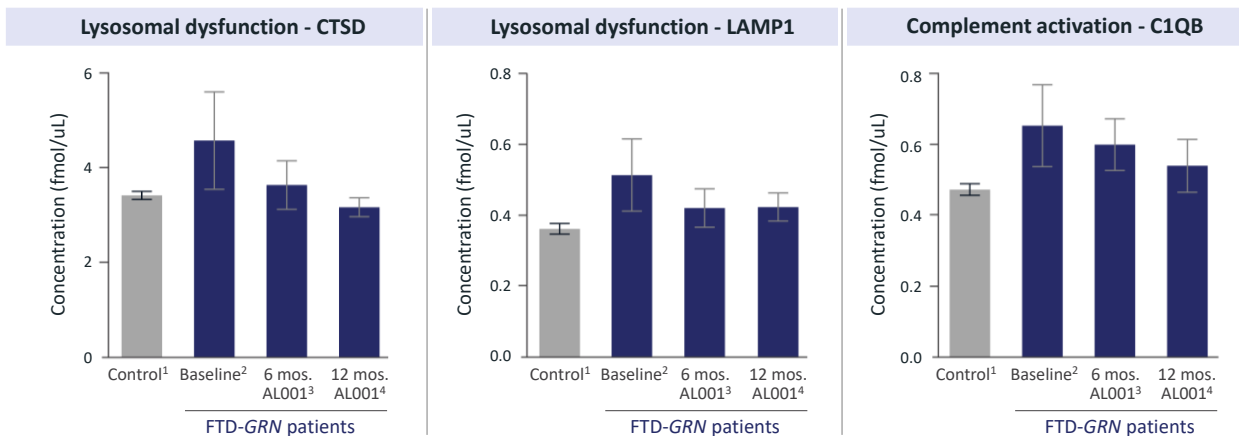


INFRONT-2: Use of Latozinemab Associated with Lowering of Mean Lysosomal and Inflammatory Biomarkers Towards Levels Seen in Control Subjects

FLUID BIOMARKERS OF DISEASE ACTIVITY

Symptomatic FTD-GRN patients at 12 months

Normalization of lysosomal and inflammatory biomarkers



Markers	Latozinemab Baseline (N=9)	Latozinemab 6 months (N=8)	Latozinemab 12 months (N=8)	Age-matched procured control (N=44)
CTSD (fm/μL)	5.2 (1.16)	3.8 (0.57)	3.1 (0.21)	3.4 (0.08)
LAMP1 (fm/μL)	0.6 (0.12)	0.4 (0.06)	0.4 (0.043)	0.4 (0.01)
C1QB (fm/μL)	0.7 (0.12)	0.6 (0.07)	0.5 (0.02)	0.5 (0.02)

Mean +/- SEM

CTSD = cathepsin D protein

LAMP1= lysosomal-associated membrane protein 1

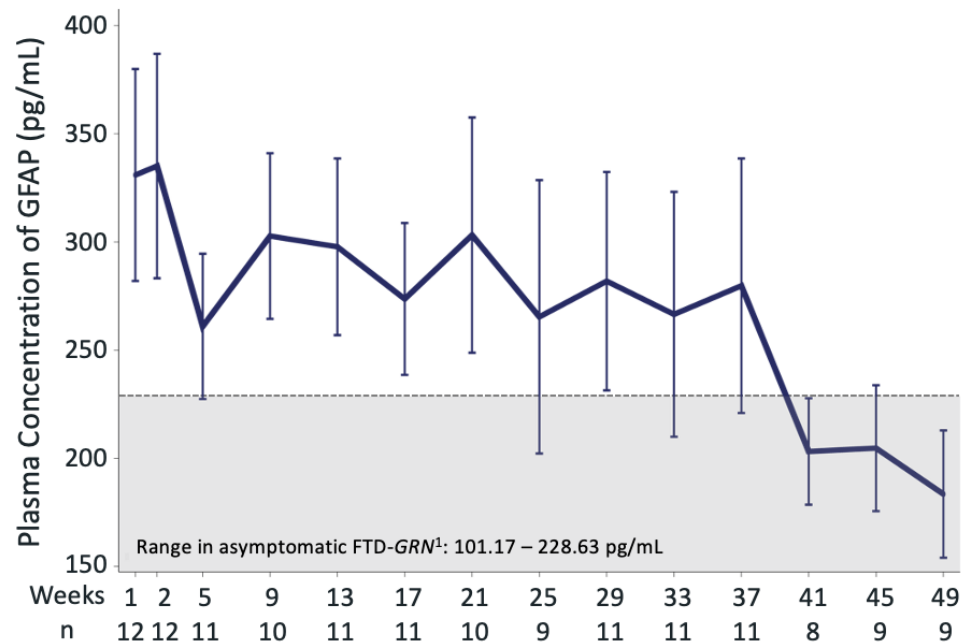
C1QB = gene that encodes the B-chain polypeptide of serum complement subcomponent C1q

Source: AAIC 2021.

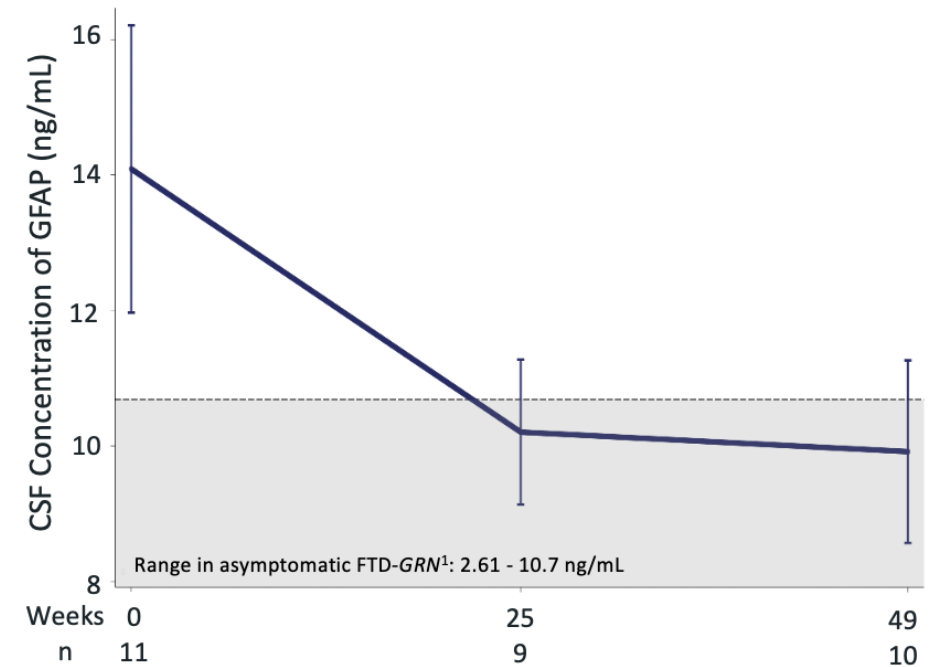
INFRONT-2: Latozinemab Treatment Decreases Glial Fibrillary Acidic Protein (GFAP) Levels Towards Range Seen in Asymptomatic Carriers of FTD-GRN Mutation

BIOMARKERS OF DISEASE ACTIVITY – ASTROGLIOSIS

GFAP Plasma Concentration



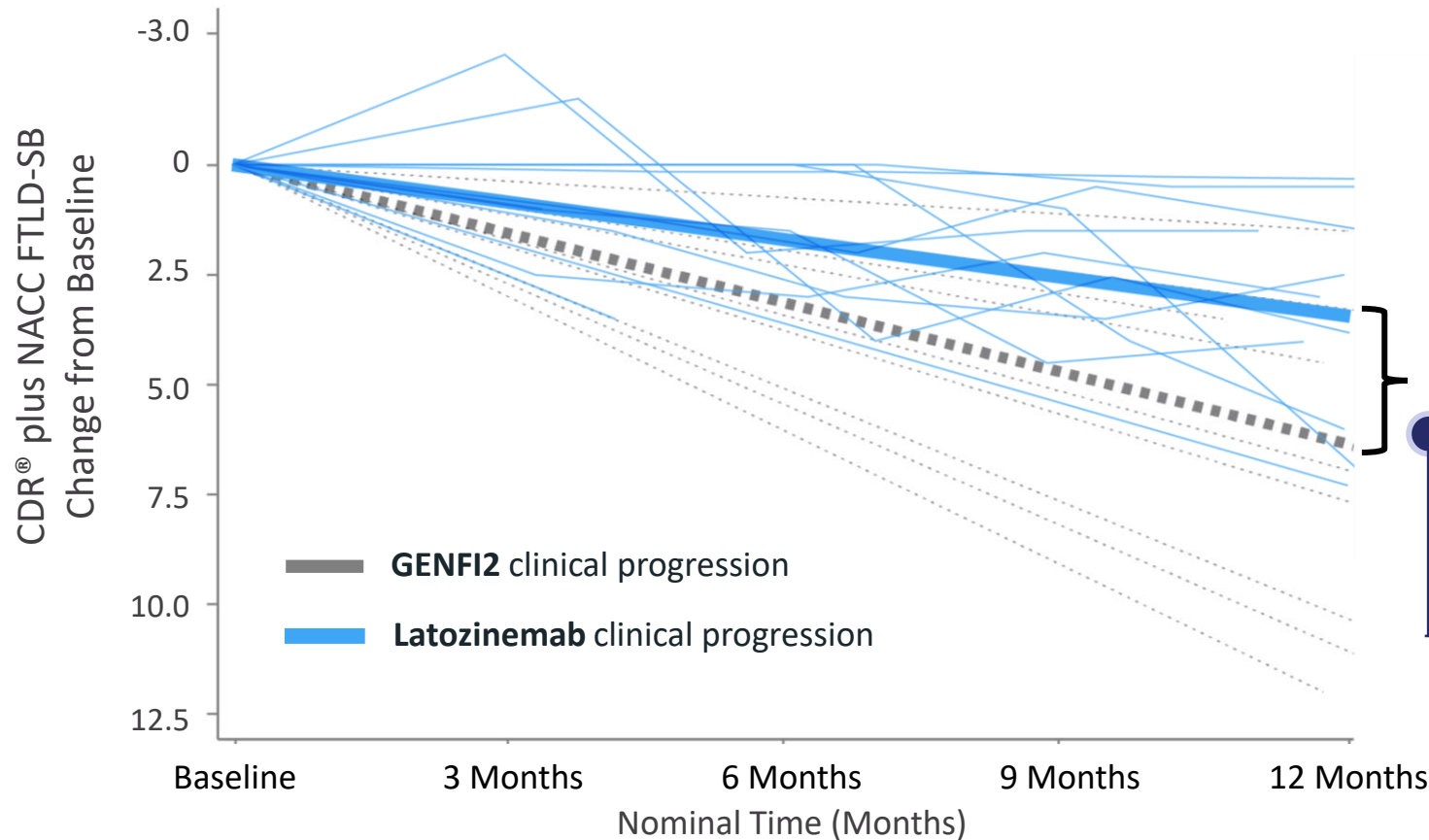
GFAP CSF Concentration



Annual Delay in Disease Progression in Latonizemab-Treated Patients Compared to Matched Historical Controls

CLINICAL BENEFIT

CDR® plus NACC FTLD-SB



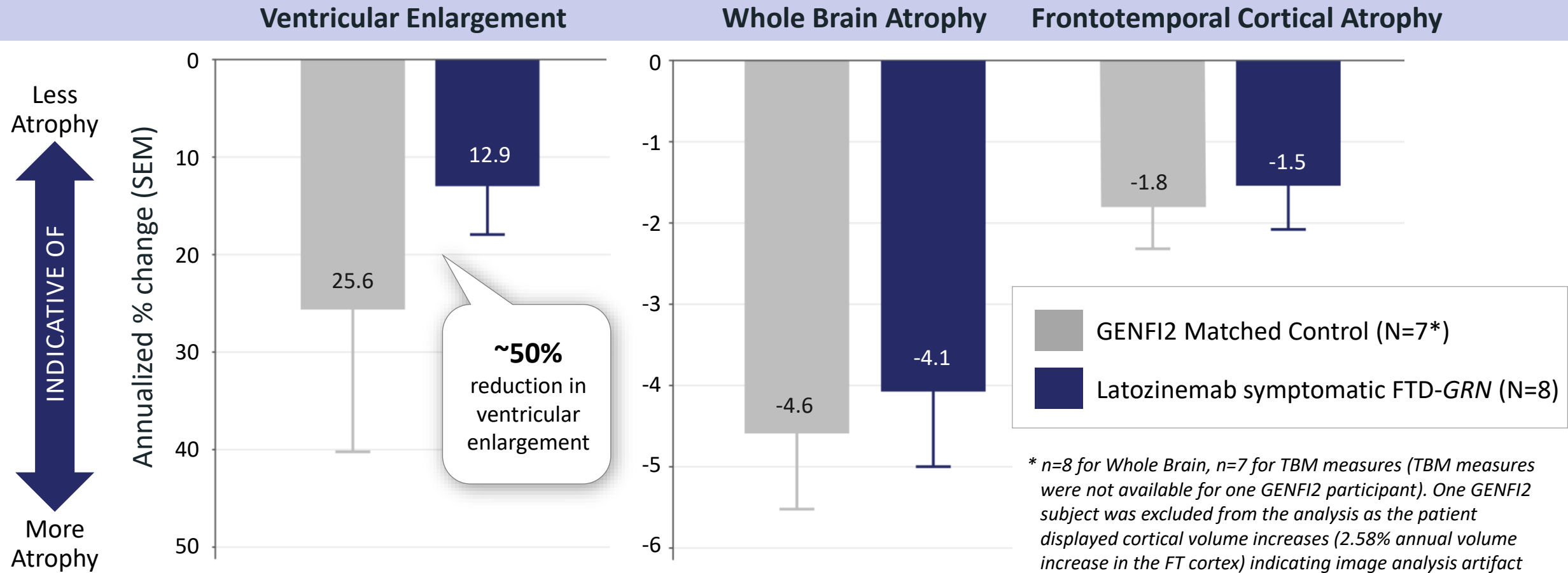
Parameter	Estimate ¹	95% CI
Annual Change in GENFI2 (n=10)	6.4	[4.35, 8.42]
Annual Change in Latozinemab (n=12)	3.3	[1.38, 5.28]
Difference in Annual Change (GENFI2 – Latozinemab)	3.1	[0.24, 5.88]

48% slowing of clinical progression (3.1 point change)

1. Random Coefficient Model with Repeated Measurements including baseline & all available post-baseline measurements up to 12 months. Data cut-off Sep 8, 2021.
 Phase 2 data presented at CTAD 2021 and ADPD 2022
 NCT03987295
 GENFI = The Genetic Frontotemporal Initiative
 GENFI2 refers to the longitudinal FTD registry dataset

INFRONT-2: vMRI Data Showing Ventricular Enlargement and Brain Atrophy in Latozinemab-Treated FTD-GRN Patients vs. Historic Matched Control

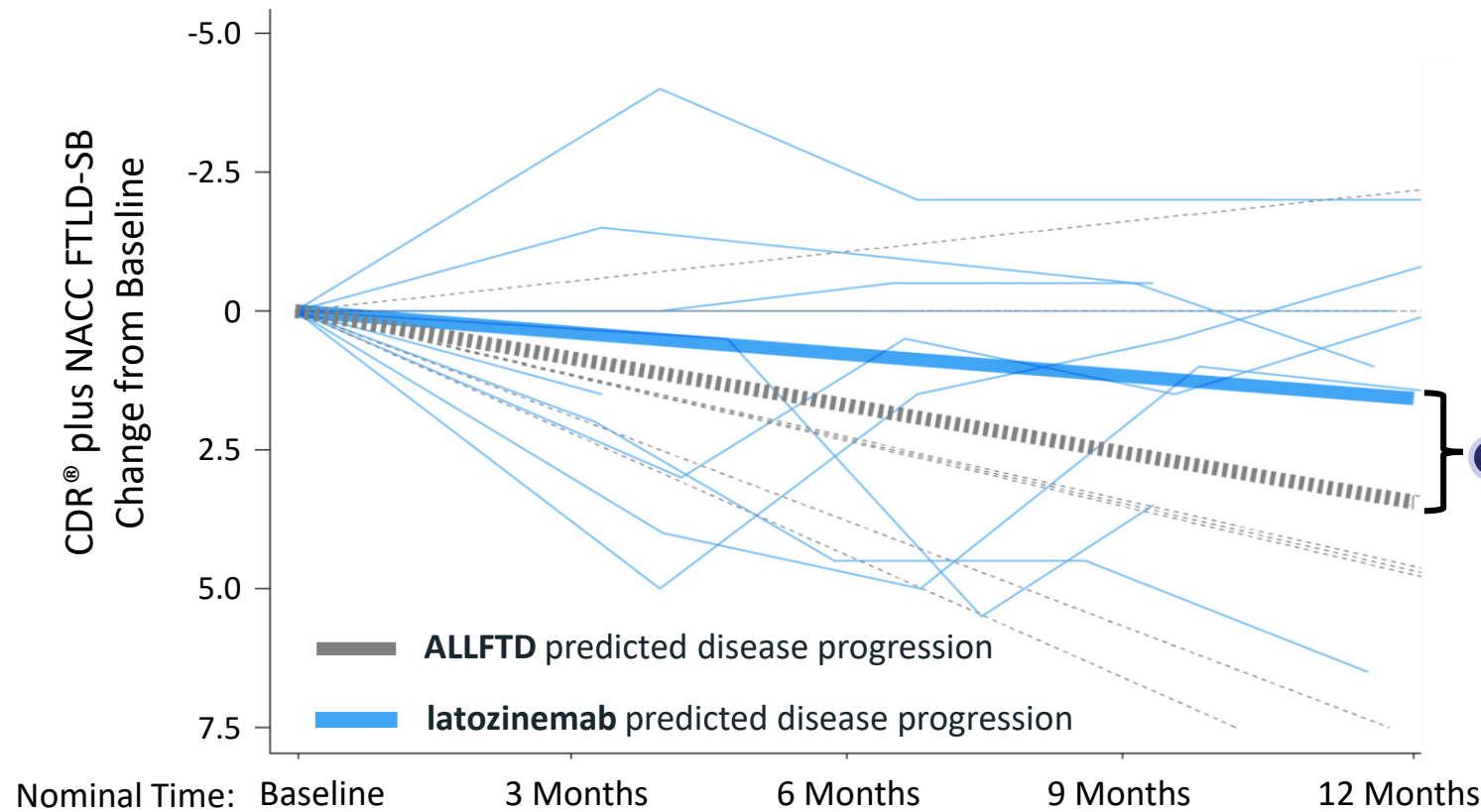
BIOMARKERS OF DISEASE ACTIVITY – BRAIN VOLUME CHANGES



Annual Delay in Disease Progression in Latozinemab-Treated FTD-C9orf72 Participants Compared to the ALLFTD Matched Historical Controls

CLINICAL BENEFIT

CDR® plus NACC FTLD-SB



Parameter	Estimate	95% CI
Annual Change in ALLFTD (n=10) ¹	3.4	[1.30,5.60]
Annual Change in latozinemab (n=10) ²	1.6	[-0.63,3.78]
Difference in Annual Change (ALLFTD – latozinemab)³	1.9	[-1.21,4.95]

~54% delay in disease progression

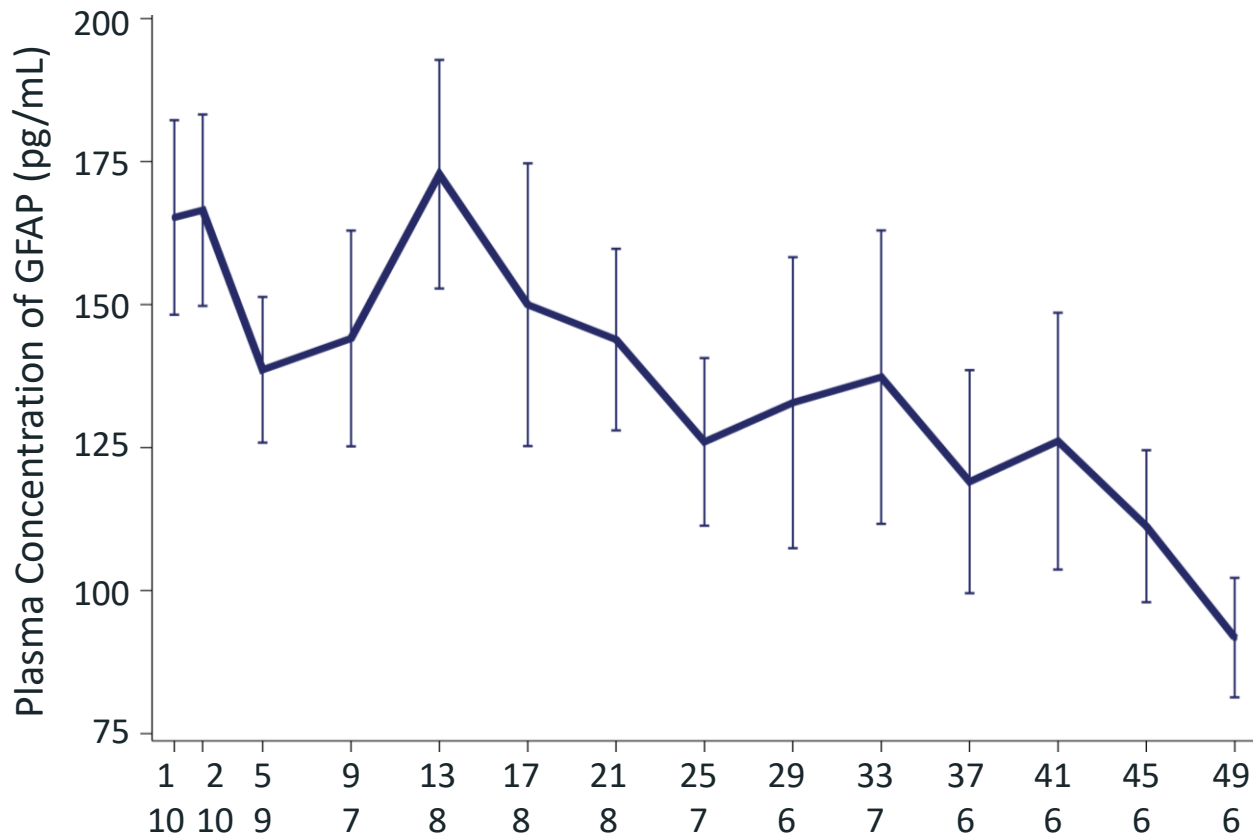
- Analysis of propensity score-matched cohort demonstrated a delay in disease progression of 0.9 points [-1.35,3.21], 36%

1: ALLFTD – one post-baseline timepoint at ~12 months
 2: Latozinemab – all available post-baseline assessments (range from 3 to 12 months)
 3: Model – Random coefficient model with repeated measurements
 ALLFTD= historical observational cohort
 Source: AD/PD 2022.

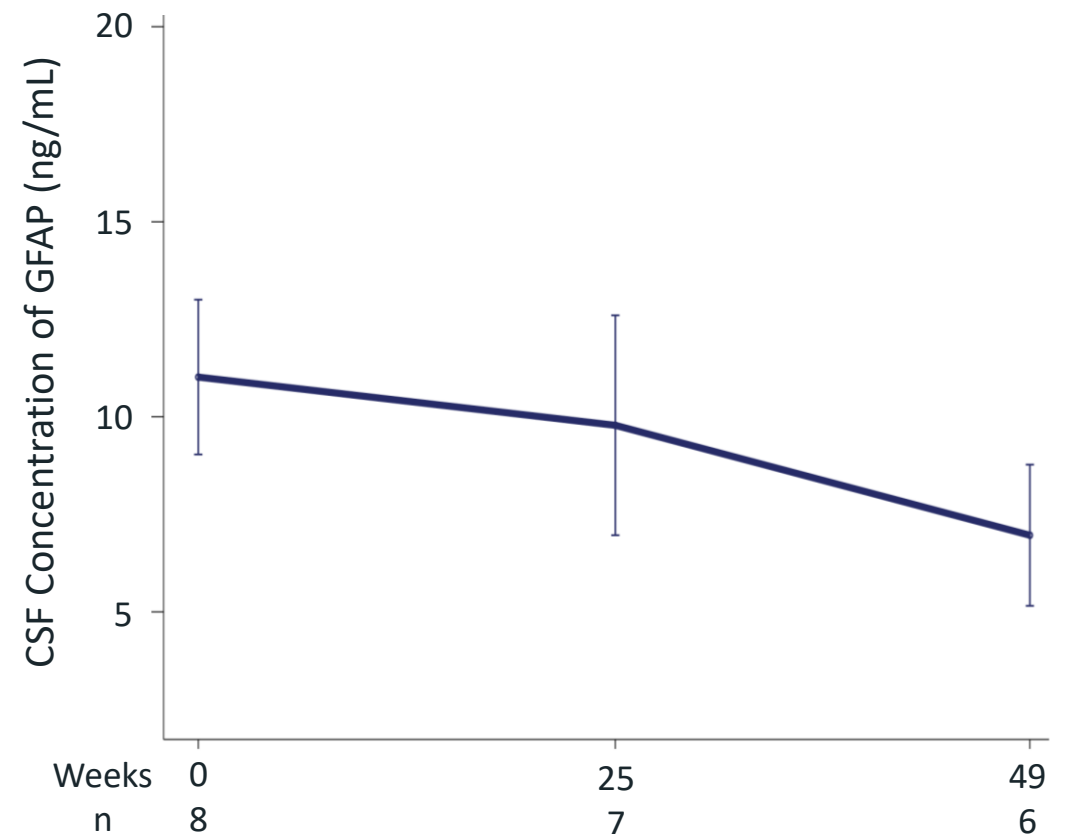
INFRONT-2: GFAP Levels in Plasma and CSF Are Decreased Over 12 Months in Latozinemab-treated FTD-C9orf72 Participants

EXPLORATORY BIOMARKER – Glial Fibrillary Acidic Protein (GFAP)

GFAP Plasma Concentration

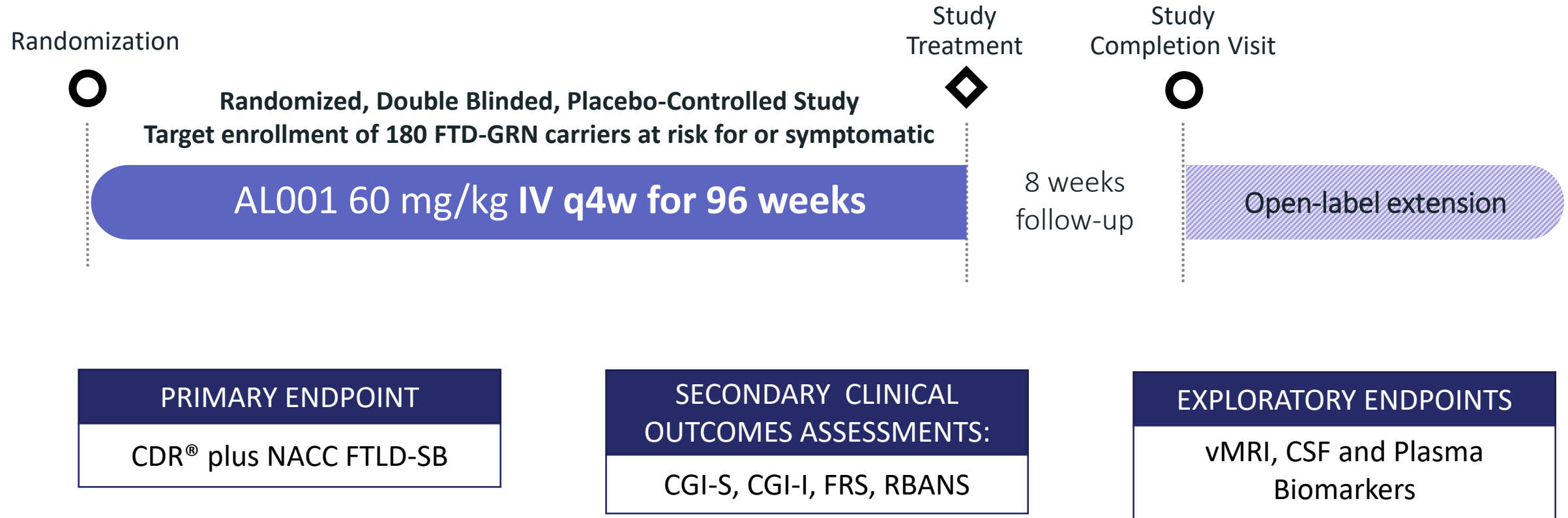


GFAP CSF Concentration



Data cut-off June 15, 2021
 Mean +/- SEM
 Source: AD/PD 2022.

Enrollment Ongoing for Pivotal INFRONT-3 Phase 3 Study of AL001



Study taking place at clinical centers in US, Canada, Europe and Australia
Initial data read out after 96-week treatment period

Latozinemab: Recent Updates and Considerations for Path Forward in FTD-GRN

- FTD-GRN remains a significant unmet need with no approved therapies
- INFRONT-3 is progressing as the largest and most comprehensive prospective, randomized study for FTD-GRN undertaken to date by any sponsor
- Recent FDA approvals signal a willingness to consider biomarker data supportive for neurodegenerative disease indications
- Progress in FTD biomarkers (fluid and vMRI) and the recently published familial FTD disease progression model may further advance how FTD-GRN clinical studies are conducted



Temporal order of clinical and biomarker changes in familial frontotemporal dementia

Adam M. Staffaroni^{1,5,6}, Melanie Quintana², Barbara Wendelberger⁷, Hilary W. Heuer¹, Lucy L. Russell³, Yann Cobigo¹, Amy Wolf¹, Sheng-Yang Matt Goh¹, Leonard Petrucelli⁴, Tania F. Gendron⁴, Carolin Heller², Annie L. Clark¹, Jack Carson Taylor¹, Amy Wise¹, Elise Ong¹, Leah Forsberg⁵, Danielle Brushaber⁵, Julio C. Rojas¹, Lauren VandeVrede¹, Peter Ljubenkovi¹, Joel Kramer¹, Kaitlin B. Casaletto¹, Brian Appleby¹, Yvette Bordelon⁵, Hugo Botha⁵, Bradford C. Dickerson⁸, Kimiko Domoto-Reilly¹⁰, Julie A. Fields¹¹, Tatiana Foroud¹², Ralitza Gavrilova⁵, Daniel Geschwind^{8,13}, Nupur Ghoshal¹⁴, Jill Goldman¹⁵, Jonathon Graff-Radford⁵, Neill Graff-Radford¹⁶, Murray Grossman¹⁷, Matthew G. H. Hall¹, Ging-Yuek Hsiung¹⁸, Edward D. Huey¹⁵, David Irwin¹⁷, David T. Jones¹⁵, Kejal Kantarci¹⁵, Daniel Kaufer¹⁹, David Knopman⁵, Walter Kremers⁴, Argentina Lario Lago¹, Maria L. Lapid¹¹, Irene Litvan²⁰, Diane Lucente², Ian R. Mackenzie²¹, Mario F. Mendez⁸, Carly Mester⁴, Bruce L. Miller¹, Chiadi U. Onyike²², Rosa Rademakers^{4,23,24}, Vijay K. Ramanan⁵, Eliana Marisa Ramos⁵, Meghana Rao⁵, Katya Rascovsky¹⁷, Katherine P. Rankin¹, Erik D. Roberson²⁵, Rodolfo Savica⁵, M. Carmela Tartaglia²⁶, Sandra Weintraub²⁷, Bonnie Wong⁹, David M. Cash³, Arabella Bouzigues³, Imogen J. Swift³, Georgia Peakman³, Martina Bocchetta³, Emily G. Todd³, Rhian S. Convery³, James B. Rowe²⁸, Barbara Borroni²⁹, Daniela Galimberti^{30,31}, Pietro Tiraboschi³², Mario Masellis³³, Elizabeth Finger³⁴, John C. van Swieten³⁵, Harro Seelaar³⁵, Lize C. Jiskoot³⁵, Sandro Sorbi^{36,37}, Chris R. Butler^{38,39}, Caroline Graff^{40,41}, Alexander Gerhard^{42,43}, Tobias Langheinrich^{42,44}, Robert Laforce⁴⁵, Raquel Sanchez-Valle⁴⁶, Alexandre de Mendonça⁴⁷, Fermin Moreno^{48,49}, Matthias Synofzik^{50,51}, Rik Vandenberghe^{52,53,54}, Simon Ducharme^{55,56}, Isabelle Le Ber^{57,58,59}, Johannes Levin^{60,61,62}, Adrian Danek⁶⁰, Markus Otto⁶³, Florence Pasquier^{64,65,66}, Isabel Santana^{67,68}, John Kornak⁶⁹, Bradley F. Boeve⁵, Howard J. Rosen¹, Jonathan D. Rohrer¹, Adam. L. Boxer^{1,5,6} and Frontotemporal Dementia Prevention Initiative (FPI) Investigators*

Unlike familial Alzheimer's disease, we have been unable to accurately predict symptom onset in presymptomatic familial frontotemporal dementia (f-FTD) mutation carriers, which is a major hurdle to designing disease prevention trials. We developed multimodal models for f-FTD disease progression and estimated clinical trial sample sizes in C9orf72, GRN and MAPT mutation carriers. Models included longitudinal clinical and neuropsychological scores, regional brain volumes and plasma neurofilament light chain (NFL) in 796 carriers and 412 noncarrier controls. We found that the temporal ordering of clinical and biomarker progression differed by genotype. In prevention-trial simulations using model-based patient selection, atrophy and NFL were the best endpoints, whereas clinical measures were potential endpoints in early symptomatic trials. f-FTD prevention trials are feasible but will likely require global recruitment efforts. These disease progression models will facilitate the planning of f-FTD clinical trials, including the selection of optimal endpoints and enrollment criteria to maximize power to detect treatment effects.

Frontotemporal dementia (FTD), marked by impairments in behavior, language and sometimes motor function, is a common form of early-onset dementia. Approximately 20–30% of FTD is caused by autosomal dominant mutations (familial, or f-FTD), usually in one of three genes: chromosome 9 open reading frame 72 (C9orf72), progranulin (GRN) or microtubule-associated protein tau (MAPT). FTD is uniformly fatal, and there are no approved therapies; however, a growing number of new treatments targeting C9orf72, GRN and MAPT are moving into clinical trials^{1,2}. Experience from Alzheimer's disease (AD), spinal muscular

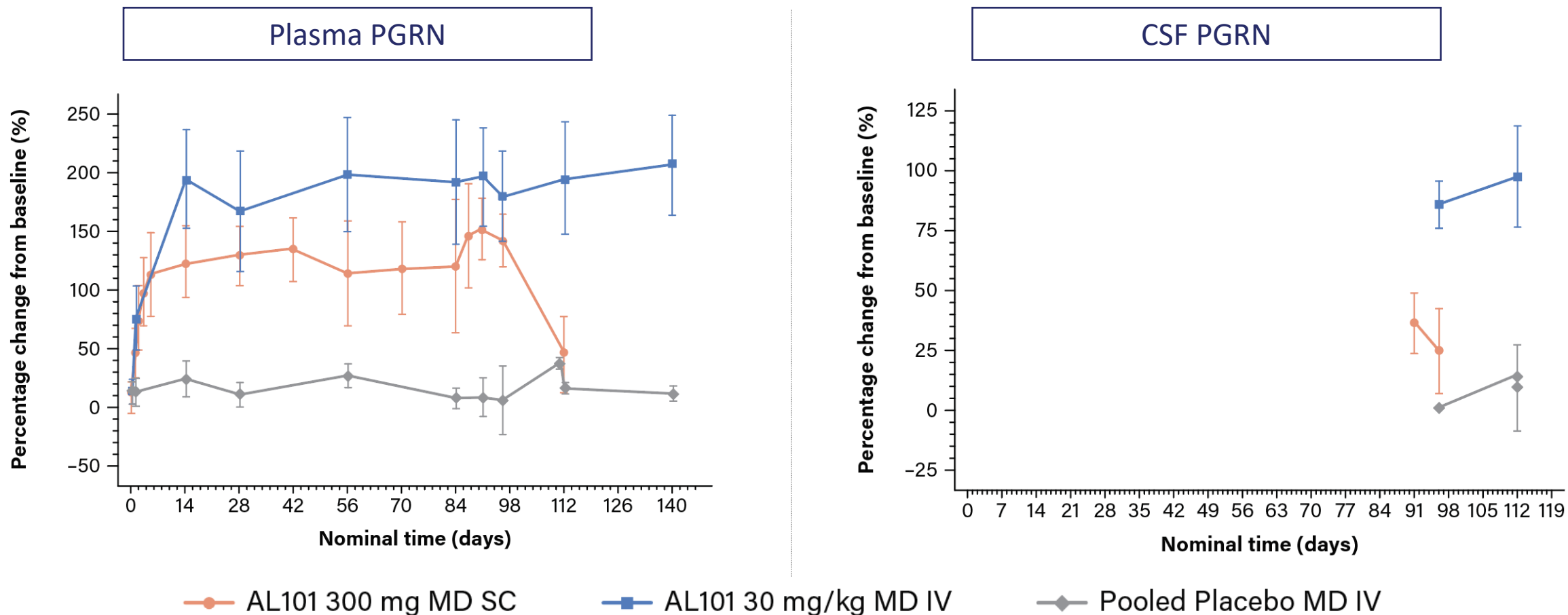
A full list of affiliations appears at the end of the paper.

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AL101 Elevated Progranulin Levels in Plasma and CSF in Phase 1

Data supports development of AL101, which has higher potency and a longer half-life that enables the potential for lower and less frequent dosing, for larger indications such as Alzheimer's disease

Mean (\pm SD) Percentage Change from Baseline in Plasma (A) and CSF (B) Concentrations of Progranulin as a Function of Time After Multiple-Dose Administration of AL101



TREM2 Alzheimer's Disease Program

AL002 – Phase 2

AL002: Designed to Activate TREM2 in Order to Enhance Microglia Function

Rationale

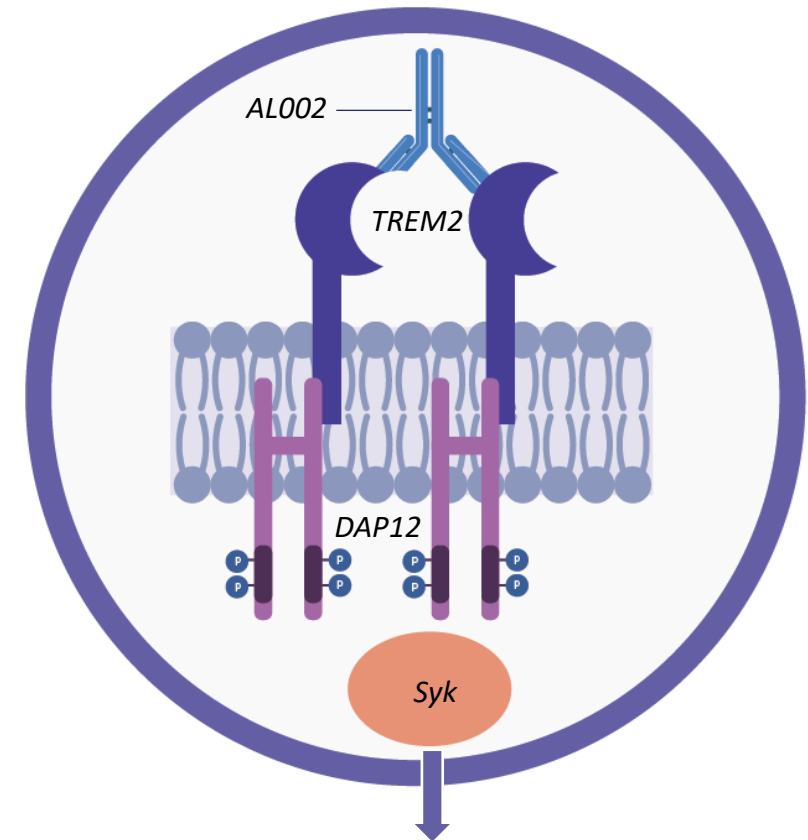
- TREM2 signaling controls critical microglial activity
- TREM2 is a prominent risk gene for Alzheimer's disease
 - Homozygous mutations cause dementia (NHD, FTD)
 - Heterozygous mutations increase risk for Alzheimer's disease by 3x
 - Ligands include APOE, an Alzheimer's risk gene

Mechanism

- Activates TREM2 signaling with the intention of enhancing functionality of microglia to address pathology and protect neurons

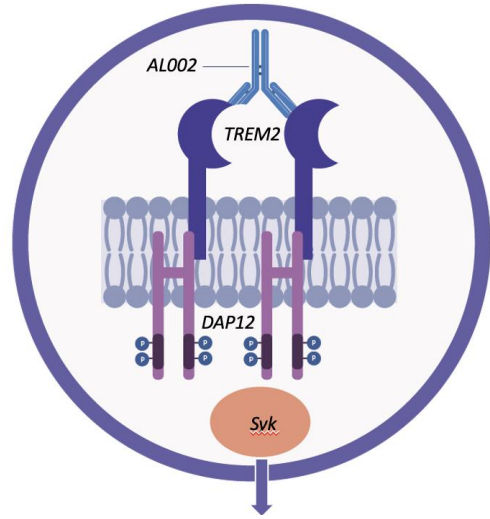
Status

- INVOKE-2 Phase 2 double-blind, randomized, placebo-controlled clinical trial on-going

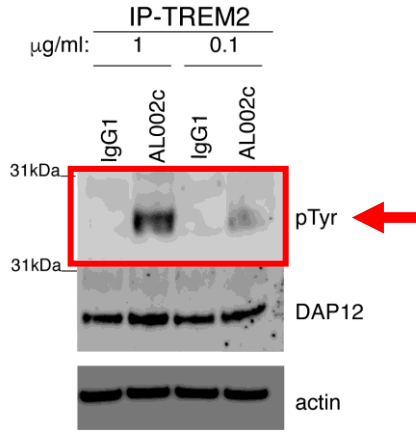


Intended to improve survival,
proliferation, function
of microglia

AL002 Demonstrated Biological Activity in Multiple *in vitro* Assays

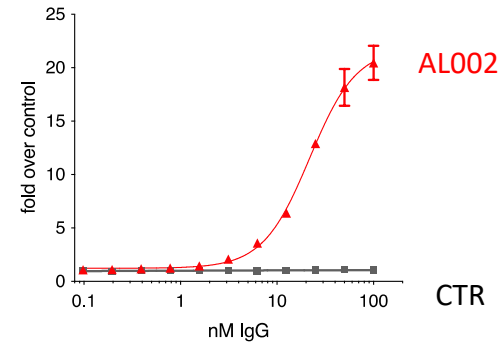


Receptor activation



AL002 promotes TREM2-mediated DAP12 phosphorylation

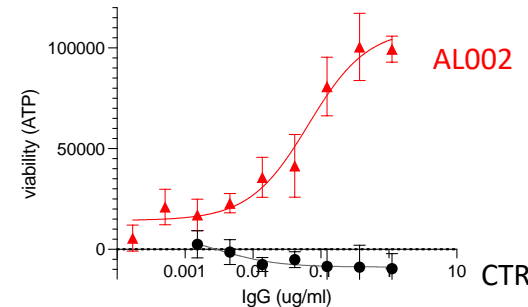
Downstream effects



AL002 promotes TREM2-mediated NFAT activation in a reporter cell system *in vitro*

Intracellular signaling

Macrophage function

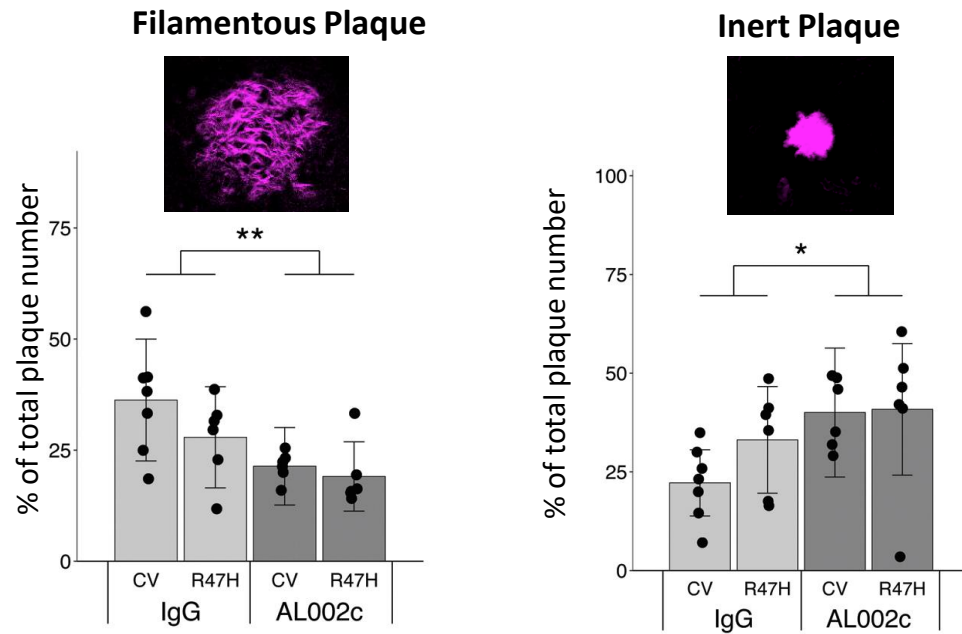


AL002 increases human macrophage survival under cellular stress

Macrophage survival

TREM2 Activation Appears to Reduce Toxic Plaques and Neuronal Damage in a Mouse Model of AD

Compaction of amyloid plaque



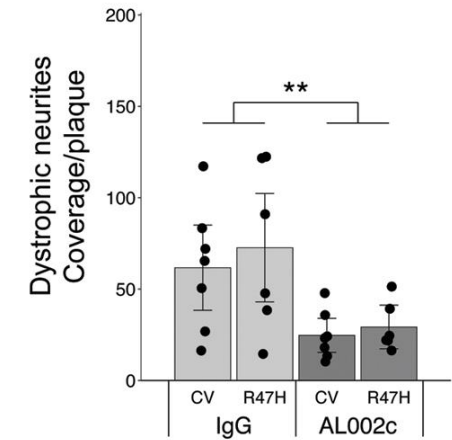
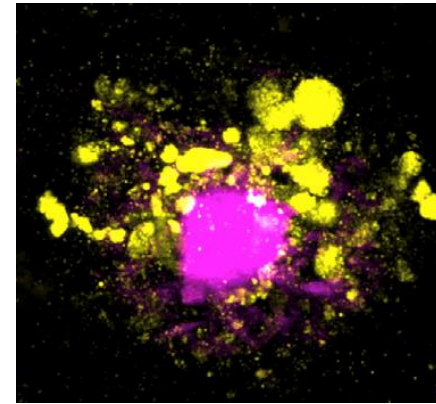
- Filamentous Plaque is considered detrimental

CV- mice expressing WT human TREM2

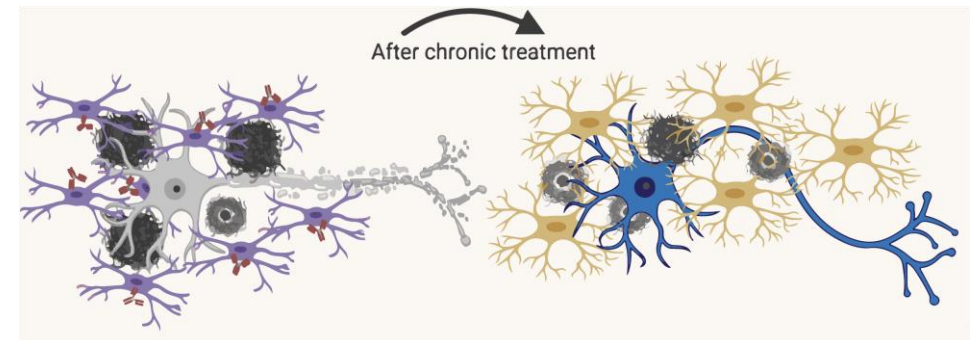
R47H- mice expressing R47H mutant TREM2

Reduction of neuronal damage

Neurite dystrophy surrounding a plaque



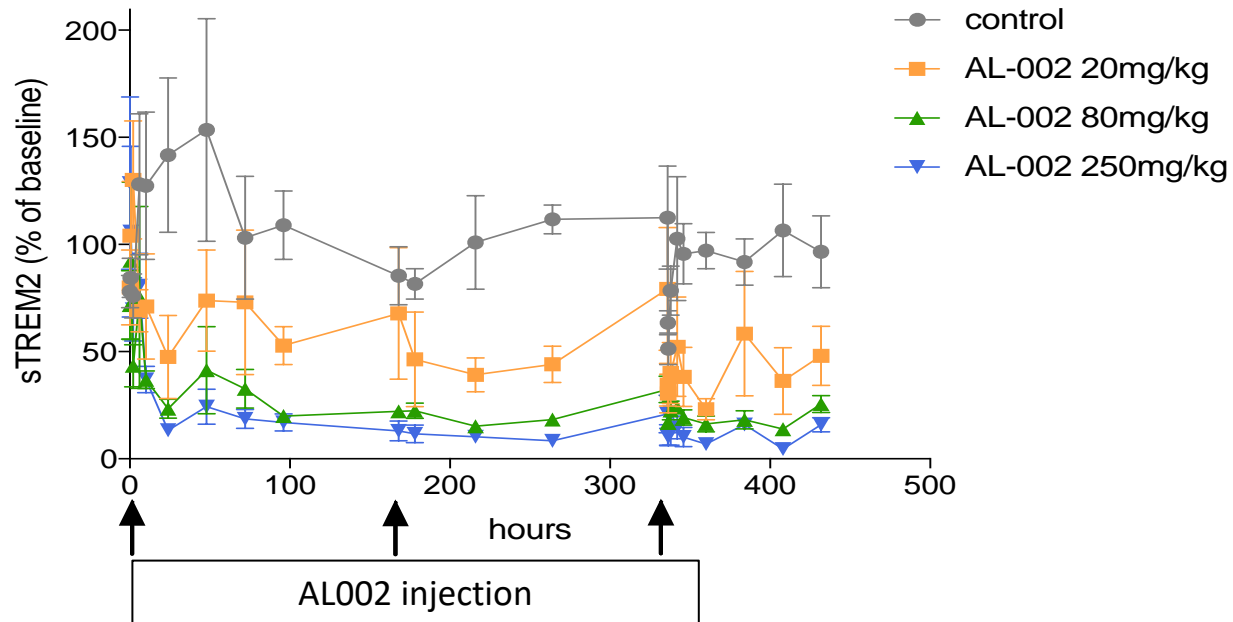
Alteration of pathology in the mouse



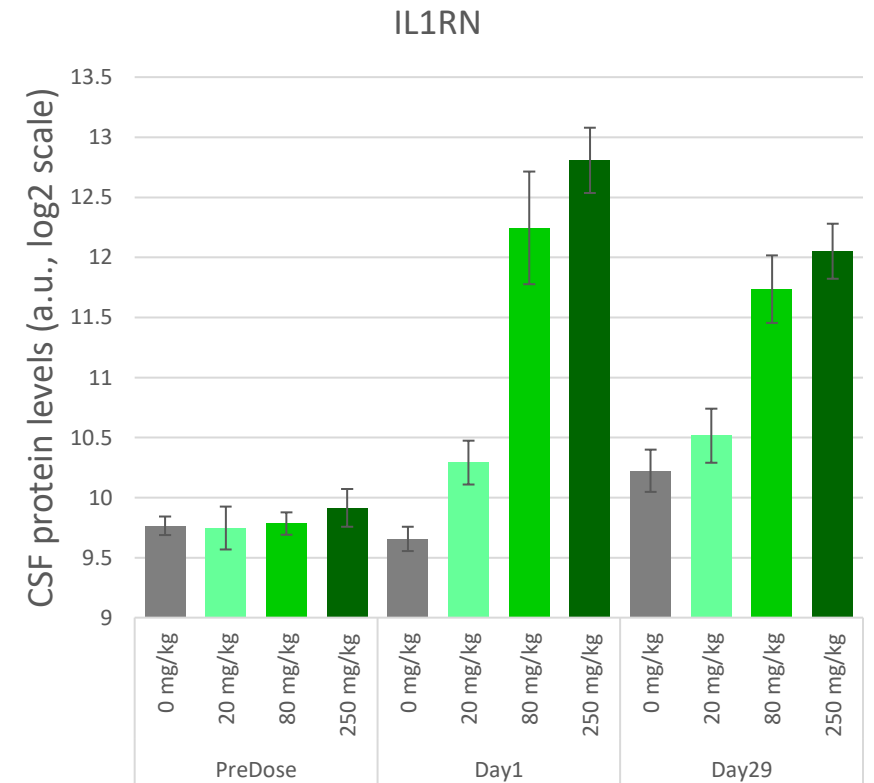
AL002 Shows Evidence of Target Engagement and Microglia Activation with Decreases in sTREM2 and Increases in IL1RN in the CSF of NHPs

Preclinical results consistent with subsequent human data

AL002 decreases sTREM2 in the CSF of **non-human primates** in a dose-dependent manner



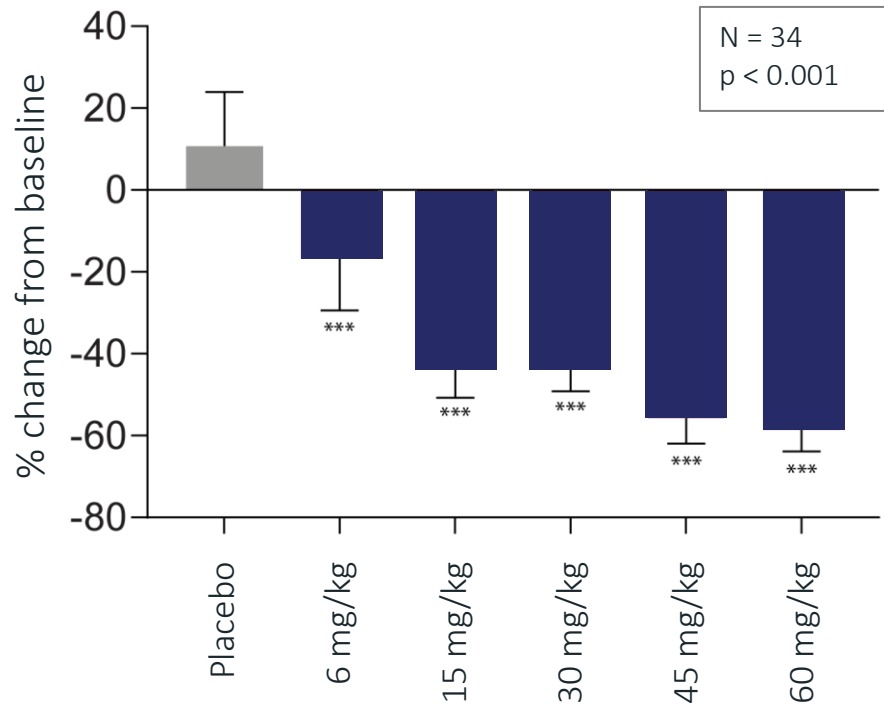
AL002 increases IL1RN in the CSF of **non-human primates** in a dose-dependent manner



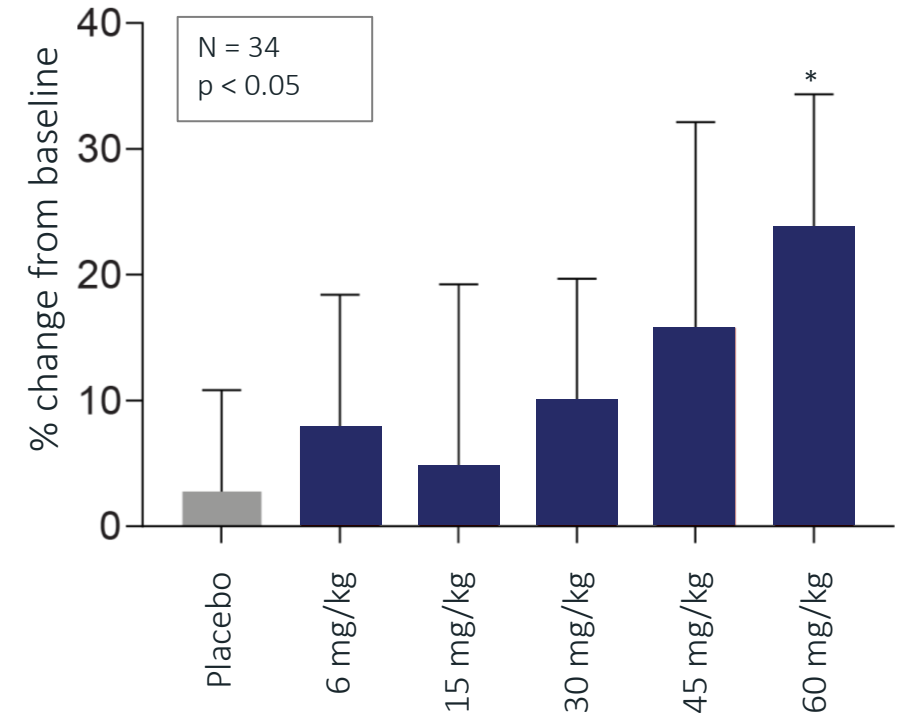
AL002 Target Engagement and Evidence of Microglia Activation Achieved in Phase 1

AL002 was generally well-tolerated and demonstrated dose-dependent target engagement and activation of microglia in healthy volunteers consistent with preclinical results¹

Dose-Dependent Reduction in CSF sTREM2
(Mean \pm SD), Associated with Target Engagement²

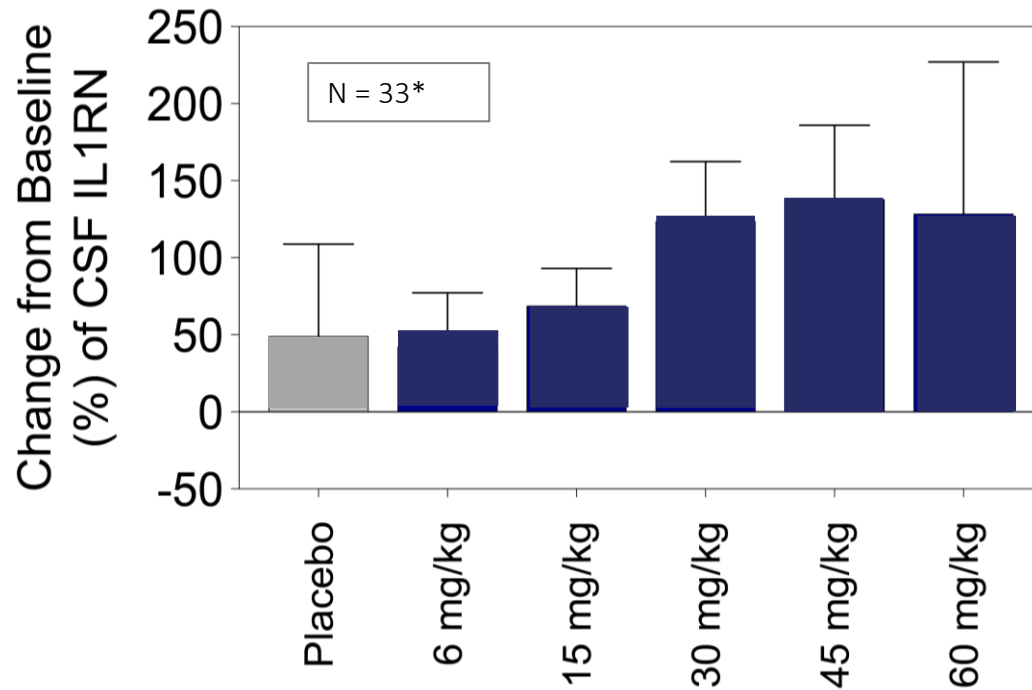


Dose-Dependent Elevation in CSF sCSF-1R
(Mean \pm SD), Associated with Microglia Activation²

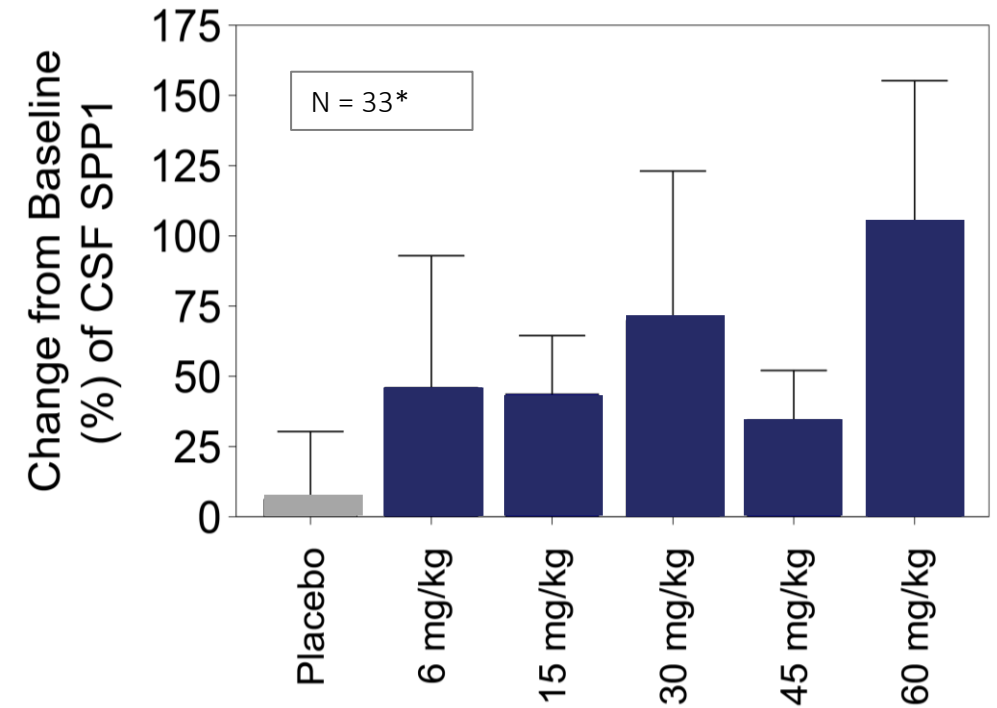


AL002 Treatment in Phase 1 Also Caused an Increase in CSF Levels of IL1RN and SPP1, Indicating Further Evidence of Microglial Activation

Elevation of IL1RN in CSF (Mean +-SD)
After Treatment with AL002



Elevation of SPP1 in CSF (Mean +-SD)
After Treatment with AL002

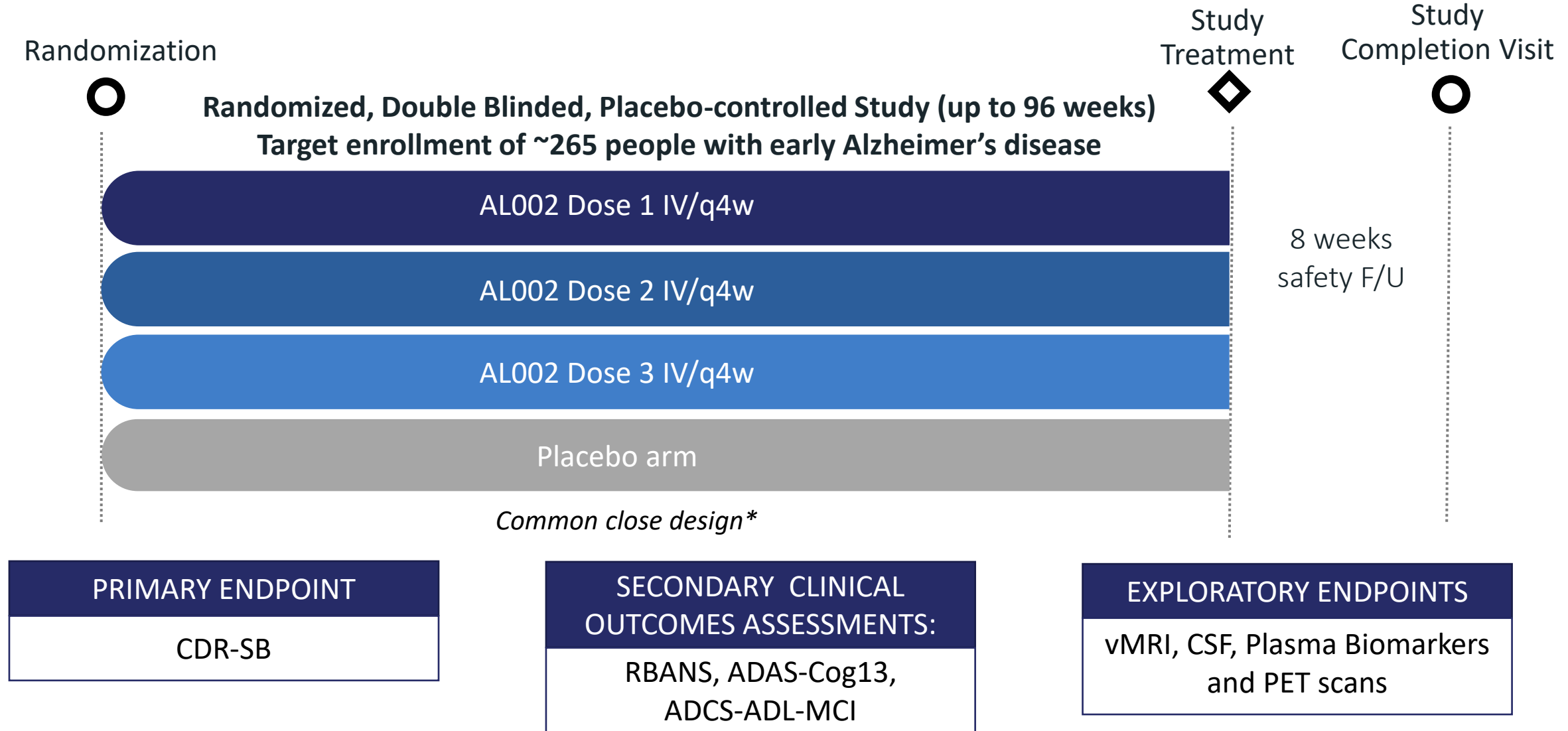


At doses 6mg/kg – 45 mg/kg, N=6/cohort. N=14 in the 60 mg/kg cohort. Pooled placebo N=11.

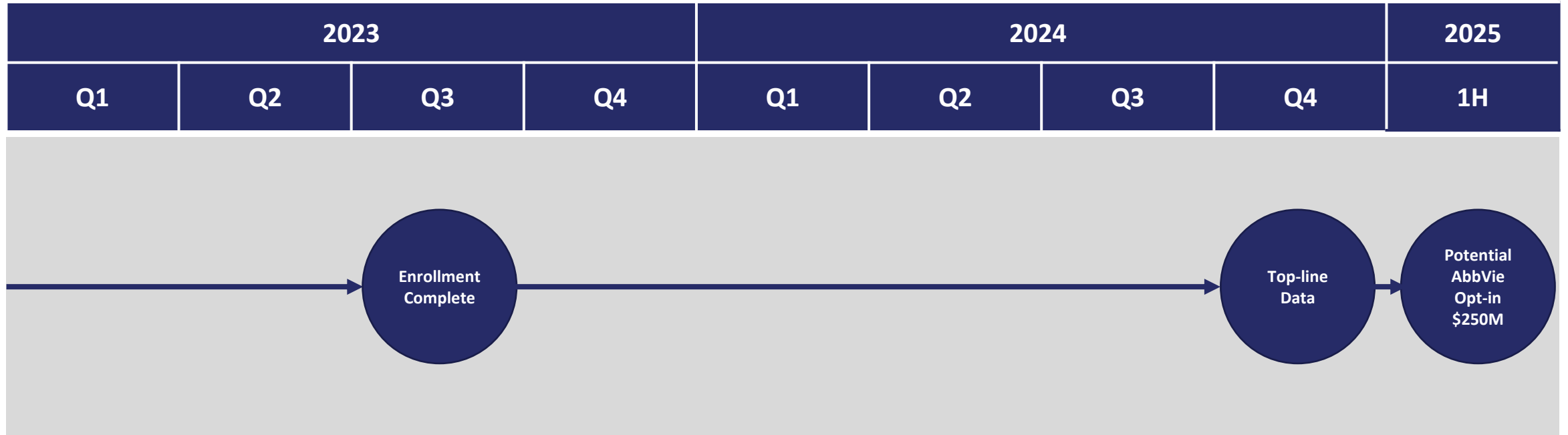
*Outlier value (1280.3% above baseline at Day 3 from 1 participant in the 30 mg/kg dose group) were omitted from the graph.

Phase 1 data presented at AAIC 2021; NCT03635047.

INVOKE-2 Phase 2 AL002 Study in Individuals with Early Alzheimer's Disease



AL002: The Most Advanced Clinical Program Targeting TREM2



- Active engagement with sites and investigators (post removal of ApoE e4 homozygous population)
- Significant momentum in engagement (increasingly recognized as a program with transformative potential)
- ARIA events being actively monitored and managed (potential biomarker for amyloid modulation)

MS4A Alzheimer's Disease Program

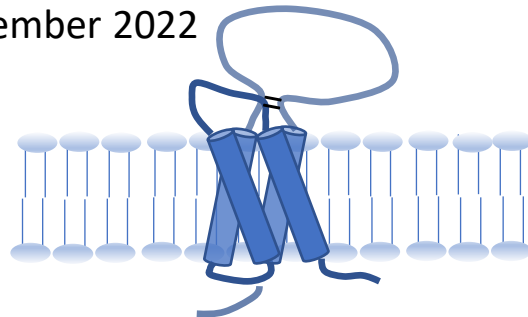
AL044 – Phase 1

Background on AL044: Targeting a Candidate Master Regulator of Microglia

Overview of MS4A Target and AL044 Candidate

- Member of ~22 membrane-tetra spanning 4A family, structurally related to CD20
- Expressed on microglia, CNS perivascular macrophages
- Regulates multiple aspects of AD risk and disease progression
- AL044, our drug candidate, functionally phenocopies and exceeds the activities of the protective MS4A variant
- AL044 regulates microglia, signaling, proliferation, survival, migration, lysosomal function, immune response and energetics
- Phase 1 study initiated in September 2022

MS4A Protein Structure



Effects of MS4A on AD

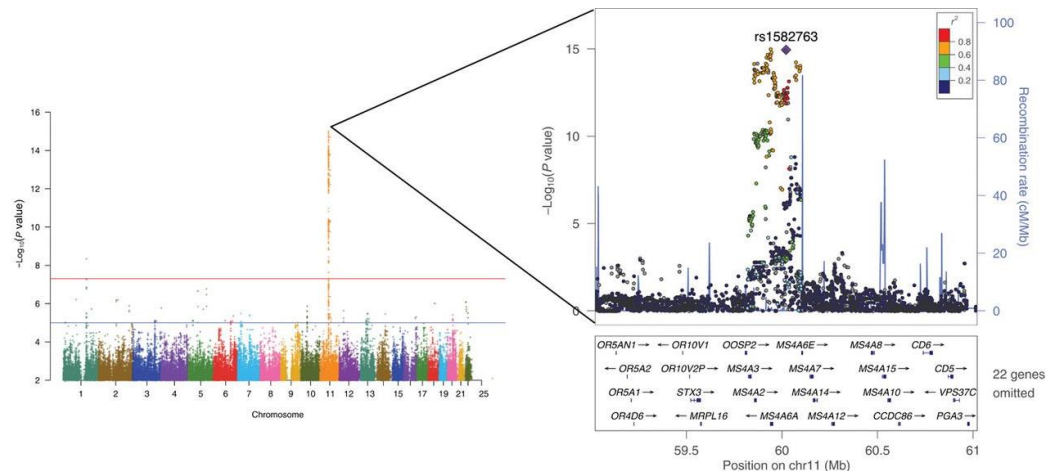
Protective Allele	Effects on AD	Risk Allele
↓	AD Risk	↑
↓	Rate of cognitive decline	↑
↓	Ab Plaques & CSF Tau	↑
↓	Rate of brain Tissue Loss	↑
↓	Rate of Conversion from MCI to AD	↑
↑	Age of onset and survival	↓
↑	CSF Soluble TREM2	↓
↑	Protective Interactions with APOE4	↓

MS4A Regulates Level of Soluble TREM2 in the CSF

Higher levels of sTREM2 are thought to represent higher activity of TREM2 signaling and better functioning microglia*

GWAS of CSF sTREM2 Level

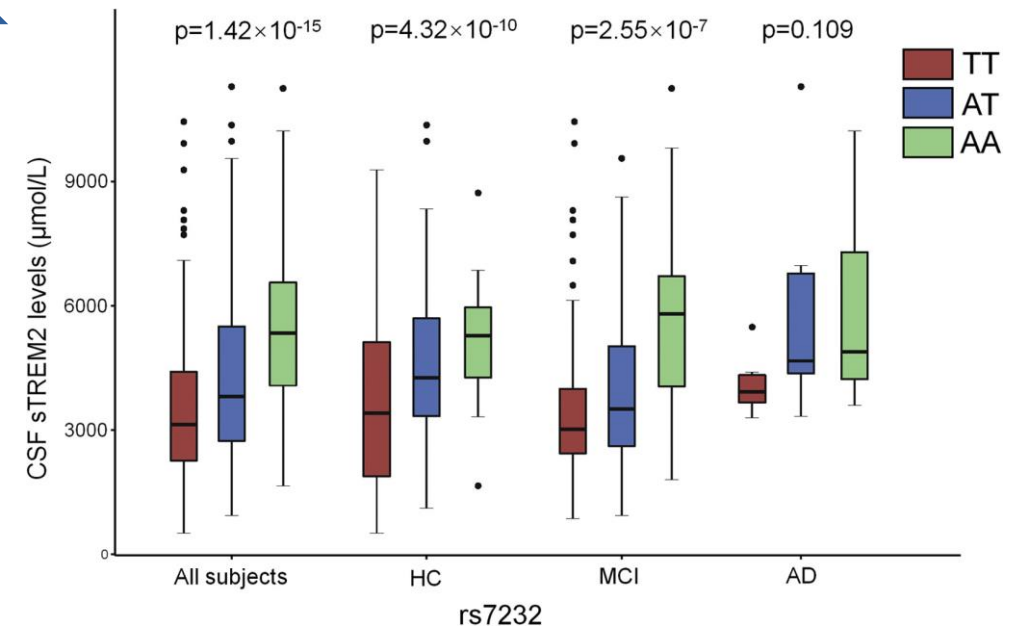
Manhattan and regional plot of the results from QTL analysis for CSF sTREM2 levels.



The same MS4A SNP's/eQTLs associated with protection from AD also regulate the level of sTREM2 in the human CSF

Effect of MS4A SNPs on sTREM2 Expression

Higher levels of sTREM2 are associated with protection from AD disease initiation and progression



MS4A AD Risk Variants HC, MCI and AD

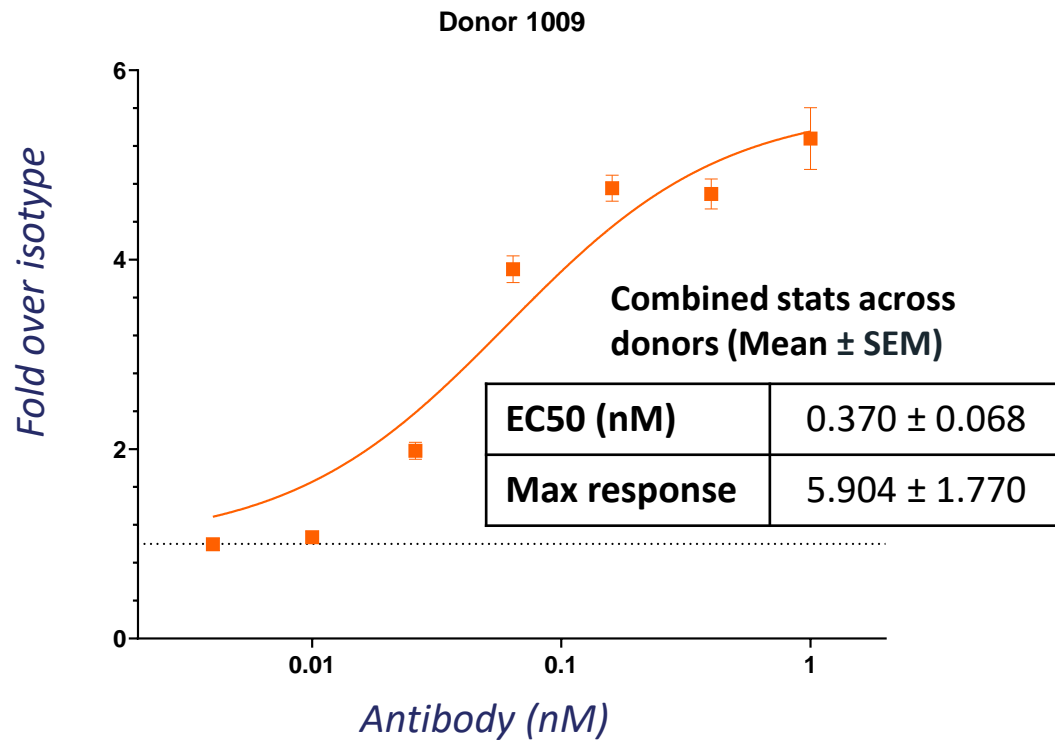
*The same SNPs that are associated with risk, survival, age of onset and levels of MS4A mRNA in AD are also associated with the levels of soluble TREM2 (sTREM2) in the human CSF. sTREM2 is considered a proxy for the level of membrane signaling TREM2.

Source: Deming et al., Sci. Transl. Med. 11, eaau2291 (2019). Front Aging Neurosci. 2019 Oct 25;11:297; [Neurobiology of Aging Volume 84](#), December 2019, Pages 241.

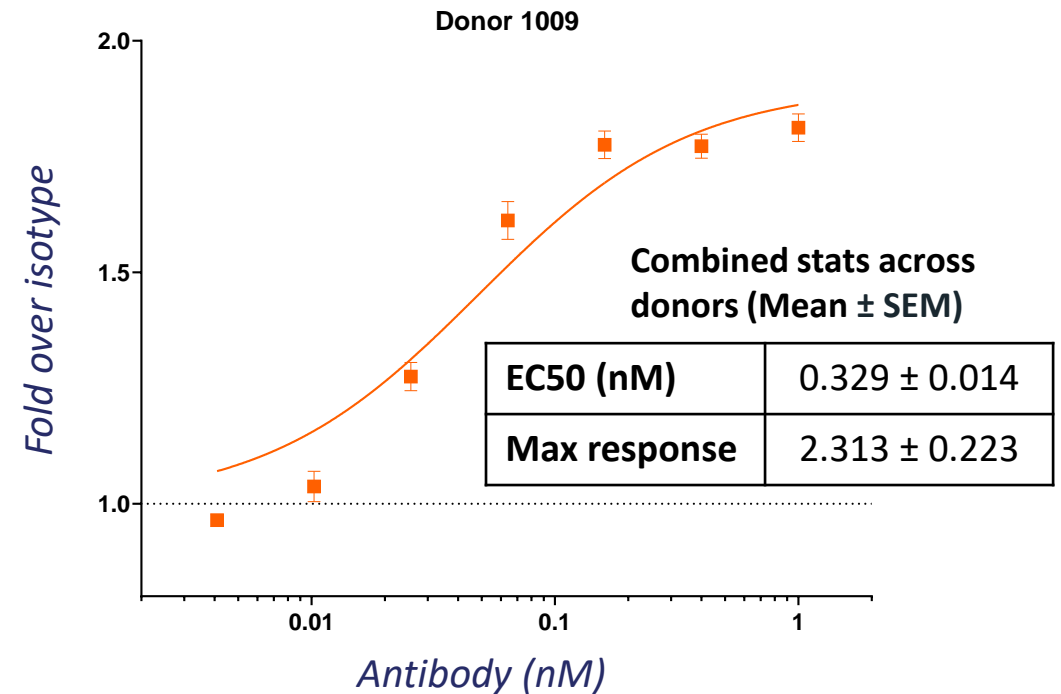
AL044 Phenocopies and Exceeds the Elevation of Soluble and Membrane TREM2 by the Protective Allele

The protective allele of MS4A increases sTREM2 by ~20%

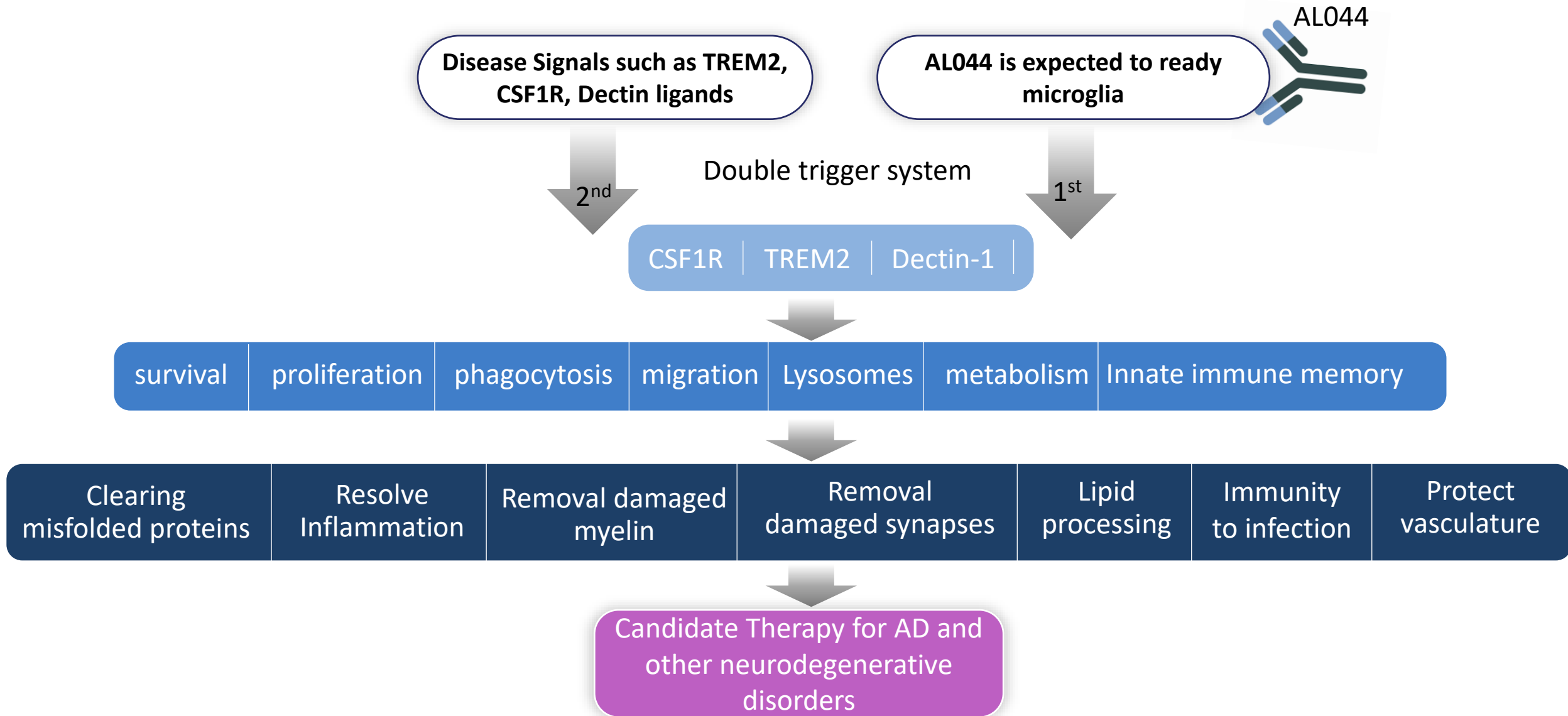
sTREM2 Levels After Treatment with AL044 for 48 Hours



Membrane TREM2 Levels After Treatment with AL044 for 48 Hours



AL044: Targeting a Candidate Master Immune Checkpoint Regulator of Microglia



Alector Oncology Overview

Neurodegeneration and Cancer Converge on Innate Immunity

Innate immunity plays critical role in both neurodegeneration and cancer

NEURODEGENERATION



Repolarizing and recruiting the aged microglia brain innate immune system to treat neurodegeneration



Tumor associated Macrophage (TAMs)



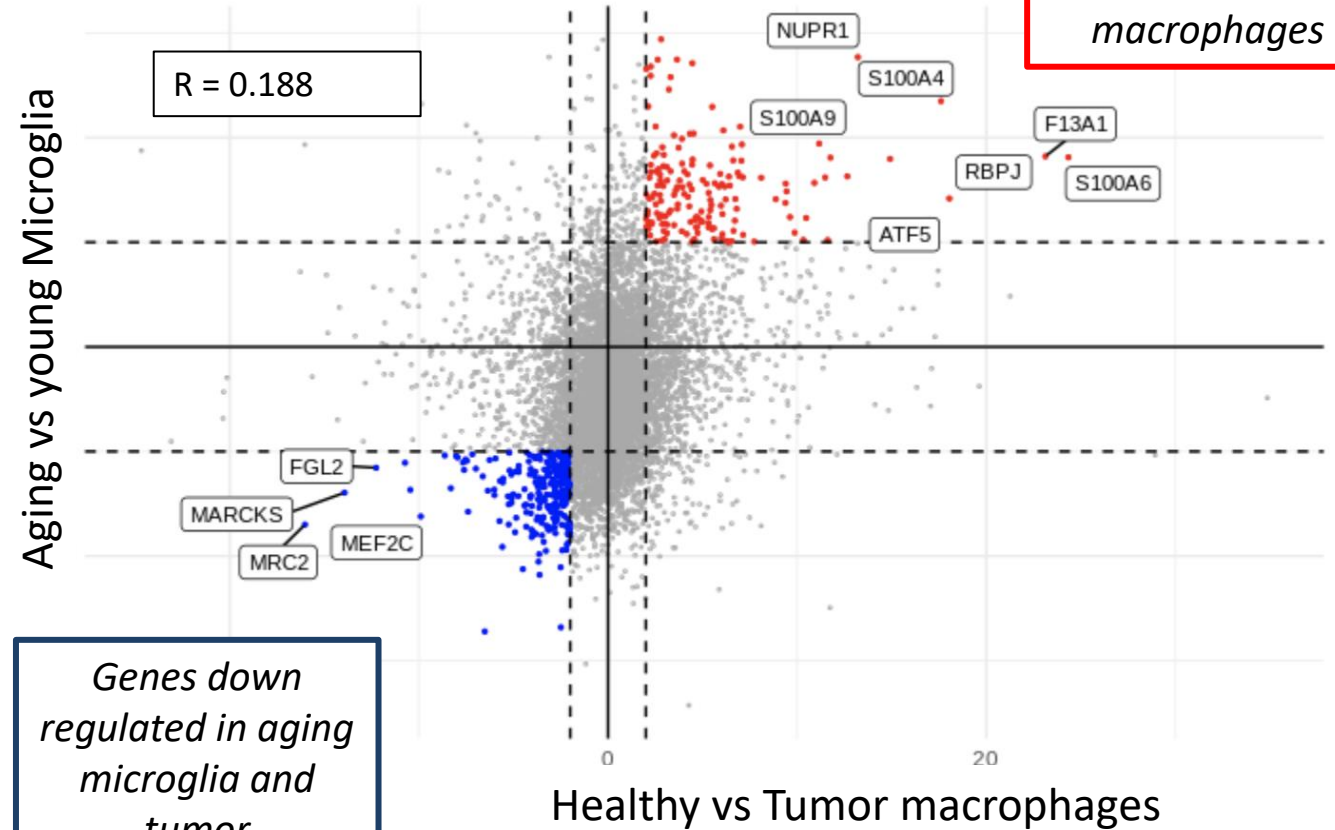
Aging Microglia

Reprogramming tumor associated macrophages (TAMs) to treat cancer



CANCER

Aging microglia share gene expression signature with tumor associated macrophages (TAMs)

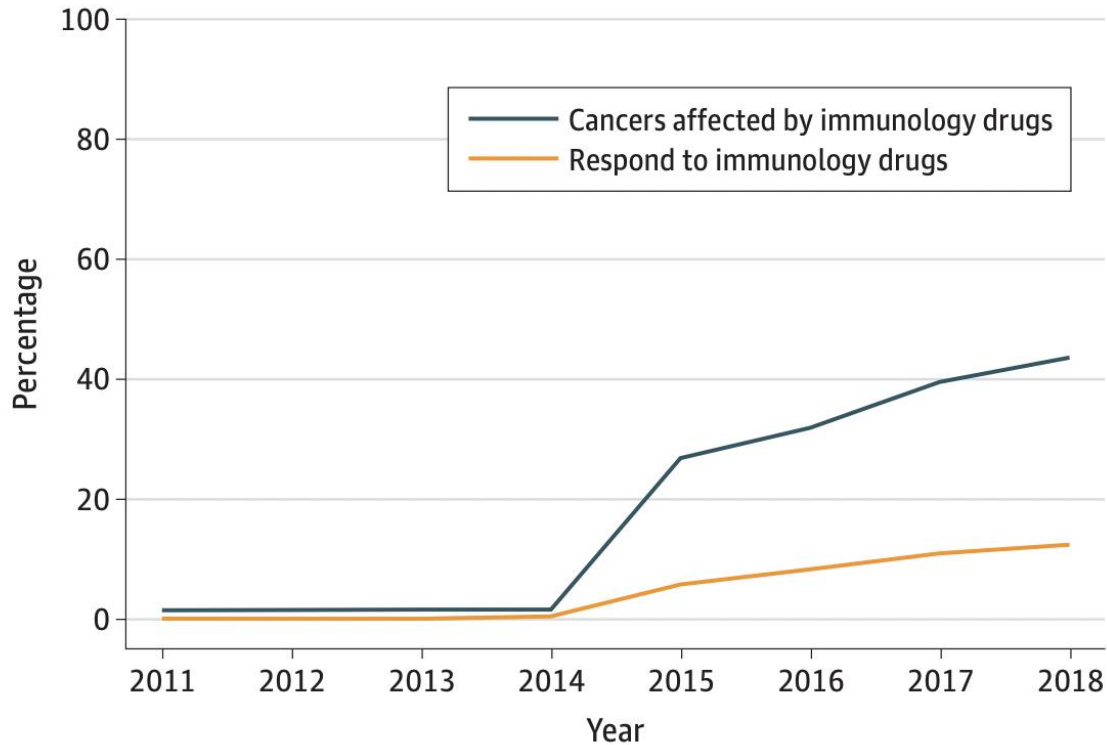


Genes upregulated in aging microglia and tumor macrophages

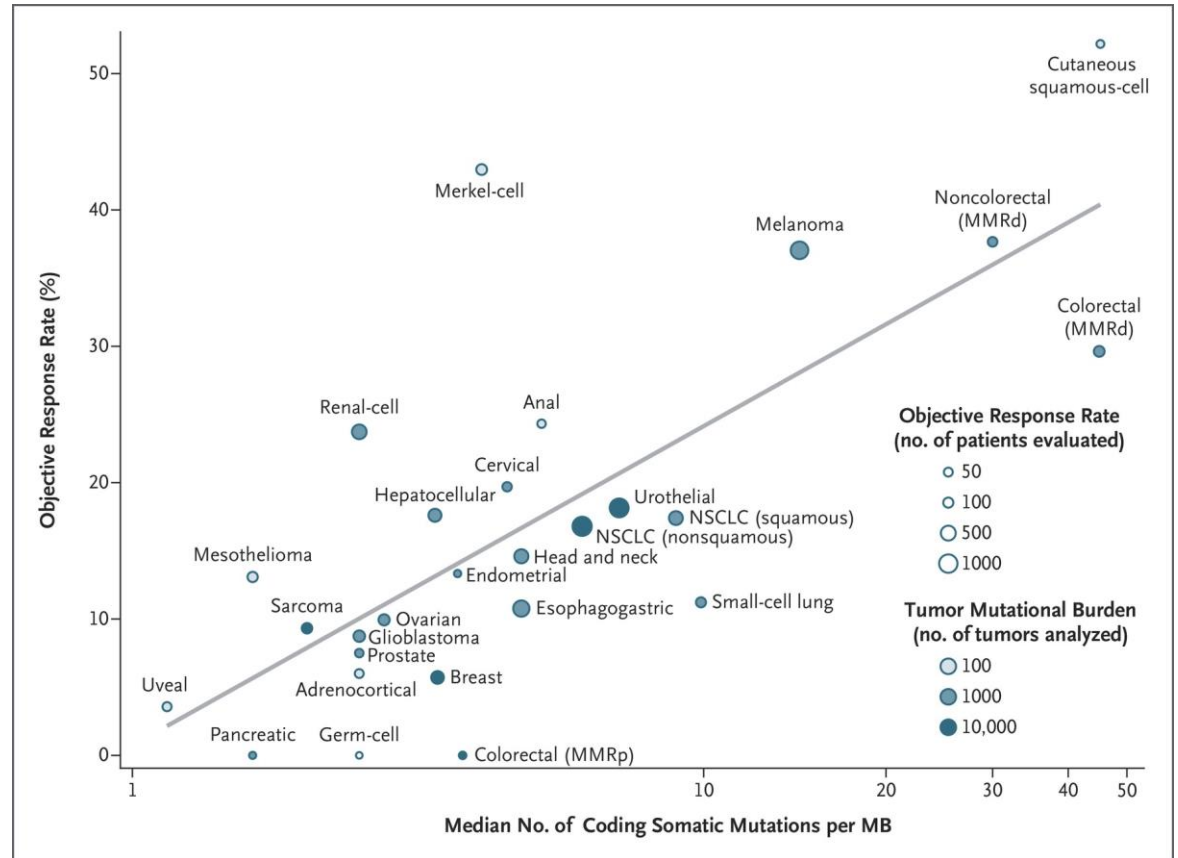
Genes down regulated in aging microglia and tumor macrophages

Cancer Remains a Large Unmet Medical Need with Less Than 20% of Cancers Meaningfully Responding to Immunotherapy

80% of cancers are still refractive to T-cell immunotherapy in part due to tumor associated macrophages (TAMs), innate immune cells which promote tumor growth, vascularization and metastasis, and suppress response to therapy



Haslam A, Prasad V. Estimation of the Percentage of US Patients With Cancer Who Are Eligible for and Respond to Checkpoint Inhibitor Immunotherapy Drugs. *JAMA Netw Open.* 2019;2(5)



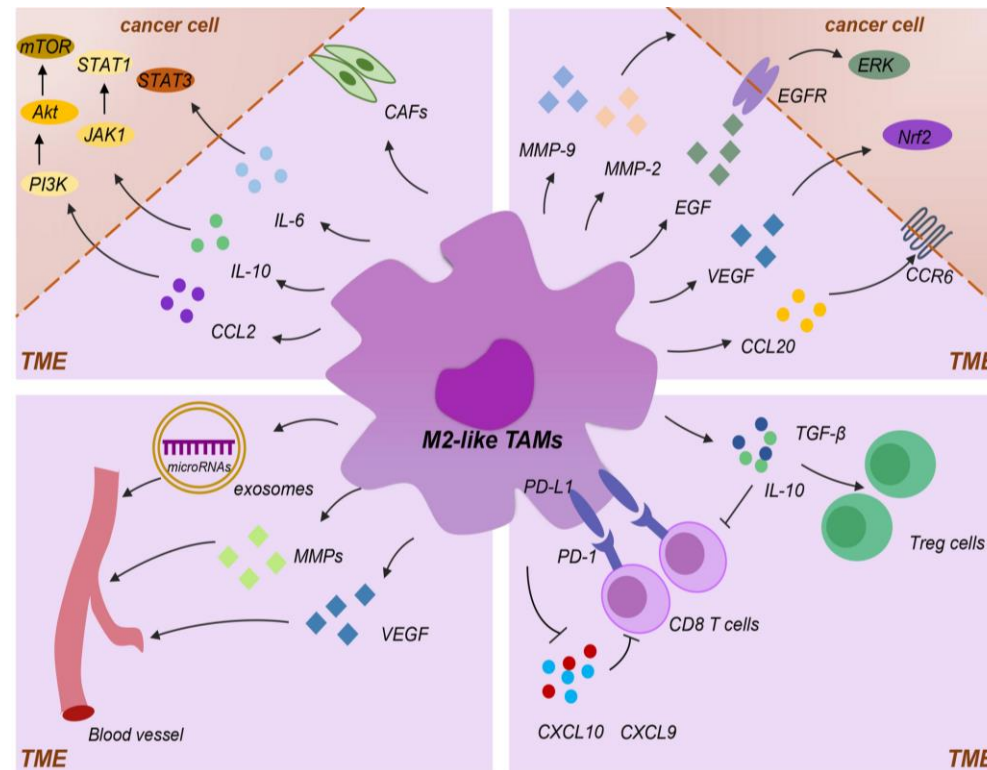
N Engl J Med 2017; 377:2500-2501

TAMs Lead to Poor Tumor Prognosis and Resistance to Immunotherapy in Cancer

Tumor Associated Macrophages (TAMs) or Myeloid Derived Immuno-Suppressor Cells (MDSCs) suppress immune response and immune therapy

Promote resistance to chemotherapy and radiotherapy

Promote tumor neo vascularization and growth

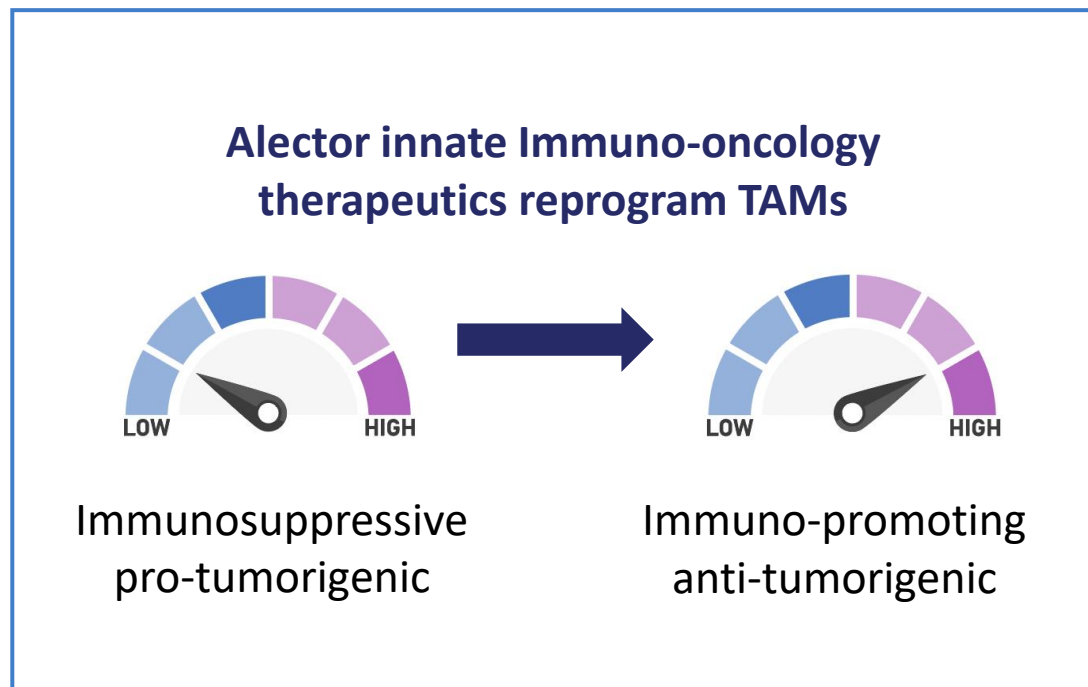


Promote tumor proliferation, invasion, migration and metastasis

Suppress infiltration, trafficking and activation of T-cell, stimulate resistance to CAR-T therapy

Alector's Therapeutic Strategy is to Reprogram TAMs (Rather Than Blocking or Killing Them) by Targeting Genetically Validated TAM Immune Checkpoints

Reprogramming TAMs to potentially cure cancer



Expected activities of Alector's TAM checkpoint drugs






Untreated TAMs	Activities in the cancer micro-environment	Re-program TAMs
↓	<i>Stimulate anti tumor activity of T, B, natural killer, macrophages, dendritic cells</i>	↑
↓	<i>Suppress tumor growth, angiogenesis and metastasis</i>	↑
↓	<i>Augment T-cells checkpoint therapy, CAR-T, vaccine, chemo & radio-therapy</i>	↑

“TAMs are highly malleable... Therefore, repolarization of TAMs appears to be a better means of treating tumors.”

Yang et al, Science Direct 2020

Alector's Pipeline of Myeloid Cell Cancer Therapeutic Programs

Anticipated to reprogram TAMs, resulting in slowing of tumor growth, increased T-cell infiltration and antigen presentation, suppression of metastasis and vascularization, and enhancement of checkpoint immunotherapy

Program	Target	Discovery Biology	Target Validation	Lead Selection	IND Enabling	Phase 1
AL009	Multi Siglecs					
AL008	SIRP- α					
ADP020	Undisclosed					
ADP036	Undisclosed					
ADP042	Undisclosed					

Translating Scientific Insights into a Broad Portfolio of First-in-Class Programs

NOVEL APPROACH

Founded to pioneer a new field of research: **Immuno-neurology**

Informed by **neuroscience, human genetics and immunology**

Substantial IP portfolio established: *41 issued patents, 500+ patent applications*

MULTIPLE CLINICAL TRIALS

PGRN Phase 3 Program for FTD-GRN
TREM2 Phase 2 Program for Early AD

PGRN Phase 2 Program for FTD-C9orf72
MS4A Phase 1 Program for AD

Pre-Clinical Portfolio and Discovery Platform
Multiple immuno-neurology and oncology opportunities

WORLD CLASS PARTNERS

\$700M upfront
\$1.5B+ milestone
50-50 U.S. profit share
Tiered double-digit royalties ex-U.S.



\$205M upfront payment
\$20M equity investment
\$986M milestone payments
Global 50-50 profit share



STRONG FINANCIALS

**\$758 MILLION IN CASH:
RUNWAY THROUGH 2025**



FTD = Frontotemporal dementia, PD = Parkinson's Disease, AD = Alzheimer's Disease

Note: As of September 30, 2022, Alector's cash, cash equivalents and investments totaled \$758.3 million.



Thank You