



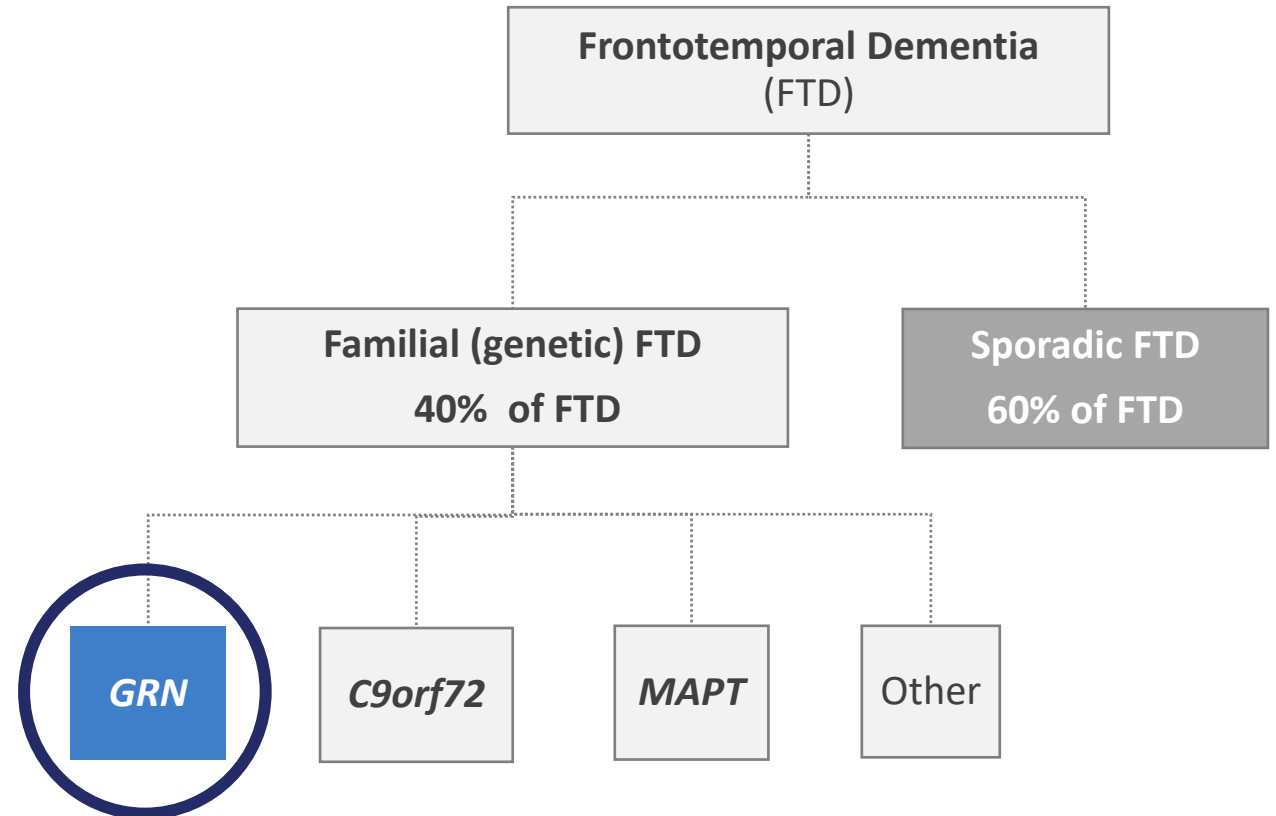
Update on the INFRONT-2 Phase 2 Study of AL001 in Frontotemporal Dementia Patients Carrying a Granulin Mutation (FTD-*GRN*)

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All authors are equity stakeholders in Alector, Inc and/or employees of Alector, LLC

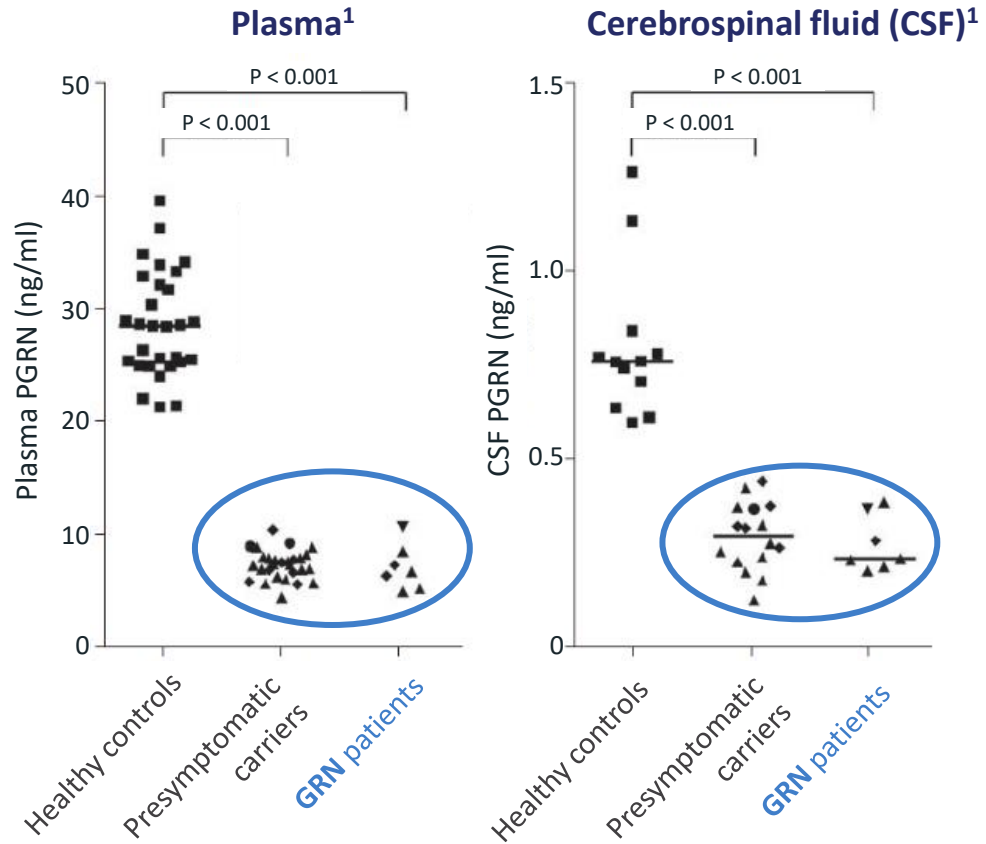
Frontotemporal dementia is a rapidly progressive form of dementia with no approved treatment

- Most common form of dementia under age 60
- Patients present with compulsive behavior, lack of restraint, apathy, anxiety, and aphasia
- Life expectancy after diagnosis is 7 - 10 years
- Estimated 170,000 FTD patients in U.S. and E.U
- 15,000 symptomatic patients with *GRN* mutations (FTD-*GRN*) in the U.S. and E.U.

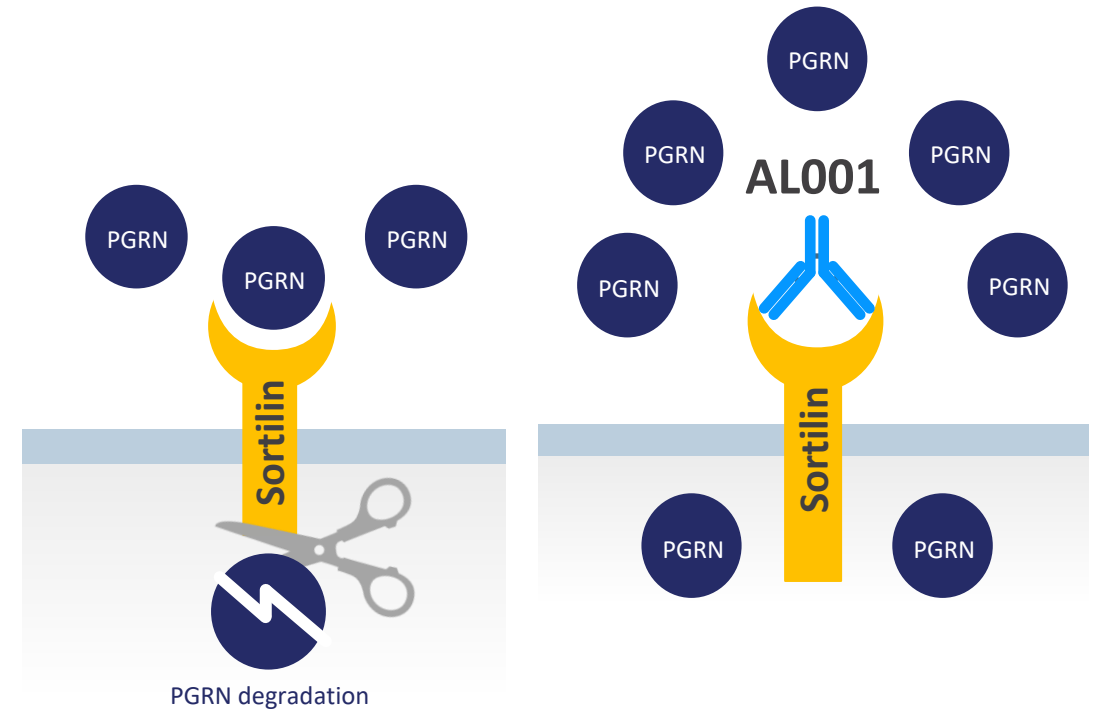


AL001 increases PGRN levels by blocking sortilin-mediated PGRN degradation

Heterozygous *GRN* mutations lead to >50% decrease in PGRN levels and is causal for FTD

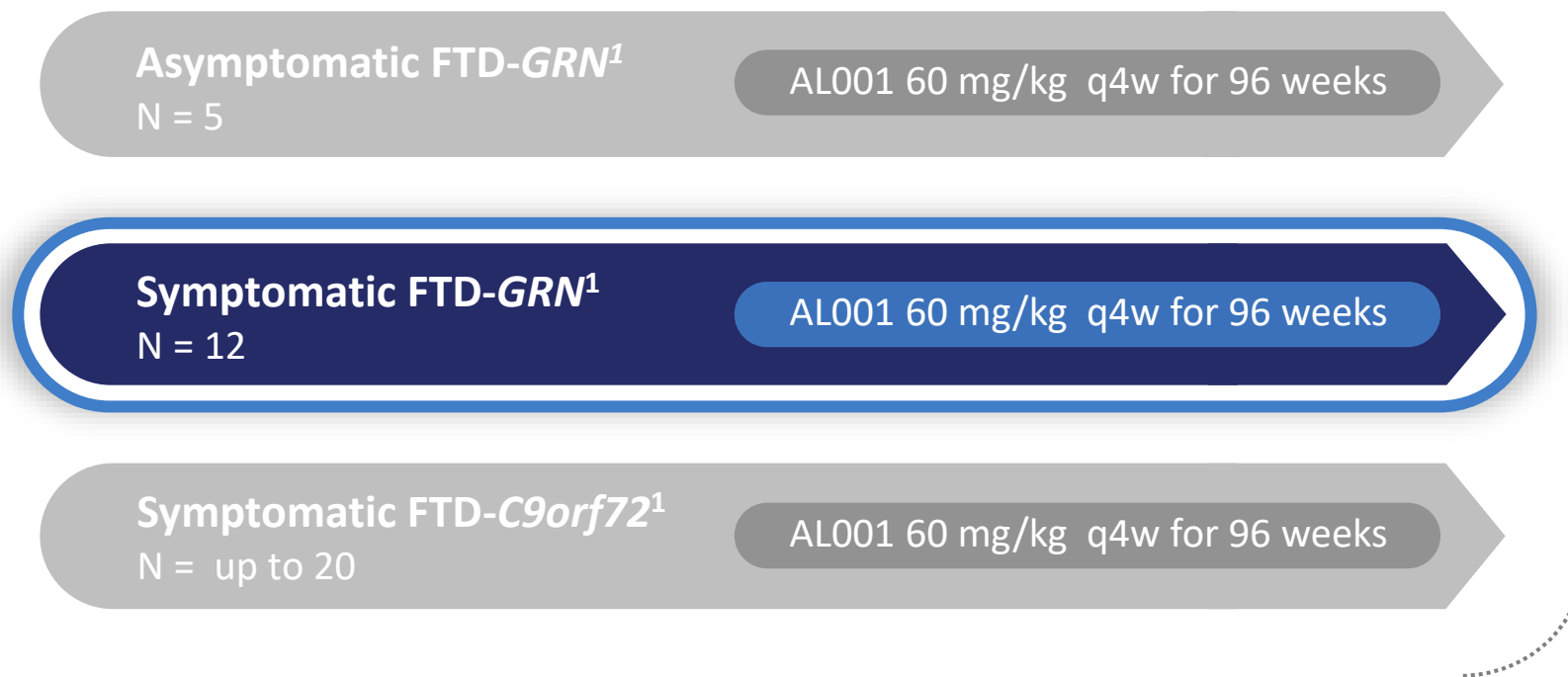


AL001 increases the half-life of PGRN by blocking sortilin



INFRONT-2 Phase 2 is an open-label study evaluating three different FTD patient cohorts

Open Label, Single Arm



Primary Endpoint:

- Safety and tolerability

Secondary Endpoints:

- PK, PD

Exploratory Endpoints:

- CSF and plasma biomarkers
- Volumetric MRI (vMRI)
- Clinical Outcome Assessment (CDR[®] plus NACC FTLD-SB²)

Twelve-month biomarker and clinical data presented today is from symptomatic FTD-GRN cohort

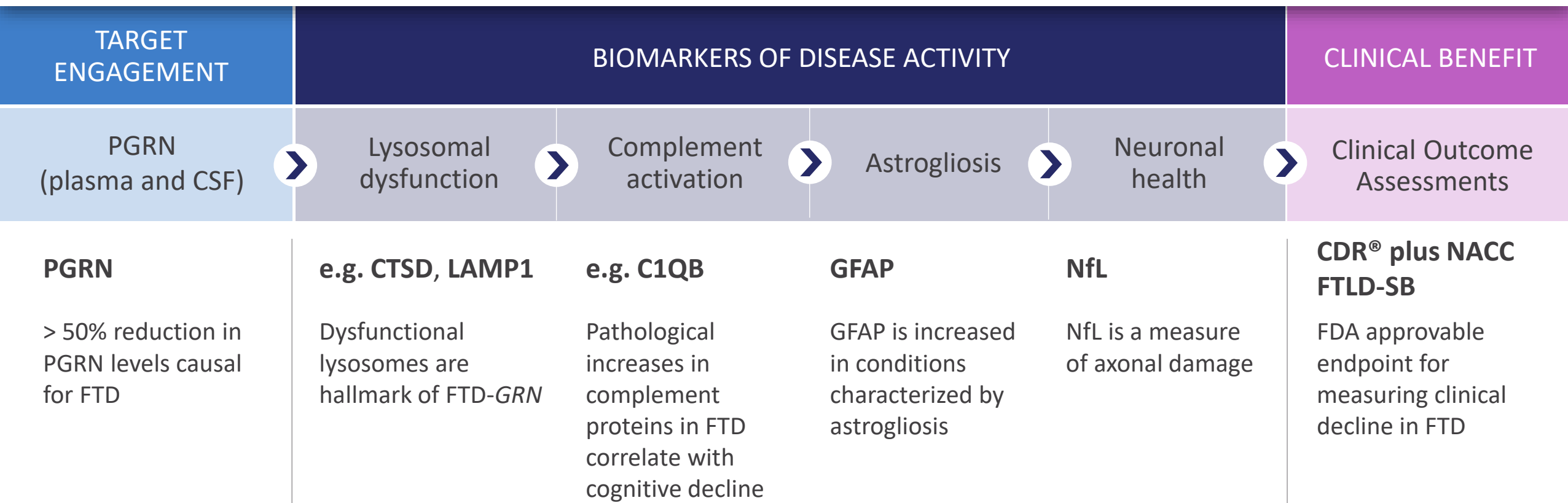
1. Asymptomatic and Symptomatic FTD-GRN enrollment closed; FTD-C9orf72 cohort currently enrolling
2. CDR[®] plus NACC FTLD-SB: Clinical Dementia Rating (CDR) dementia staging instrument plus National Alzheimer's Coordinating Center (NACC) behavior and language domains frontotemporal lobar degeneration (FTLD) sum of boxes (SB)

AL001 is well tolerated in INFRONT-2 FTD patients treated for a median duration of 12 months

	aFTD-GRN (N=5) n (%)	FTD-GRN (N=12) n (%)	FTD-C9orf72 (N=10) n (%)	Total (N=27) n (%)
Any TEAE	5 (100)	11 (92)	9 (90)	25 (93)
Any treatment-related TEAE	1 (20)	2 (17)	8 (80)	11 (41)
Any SAE ¹	0	3 (25)	0	3 (11)
Any treatment-related SAE	0	0	0	0
Any TEAE leading to study drug discontinuation	0	0	0	0

AL001 impacts key markers of the disease cascade in symptomatic FTD-GRN patients

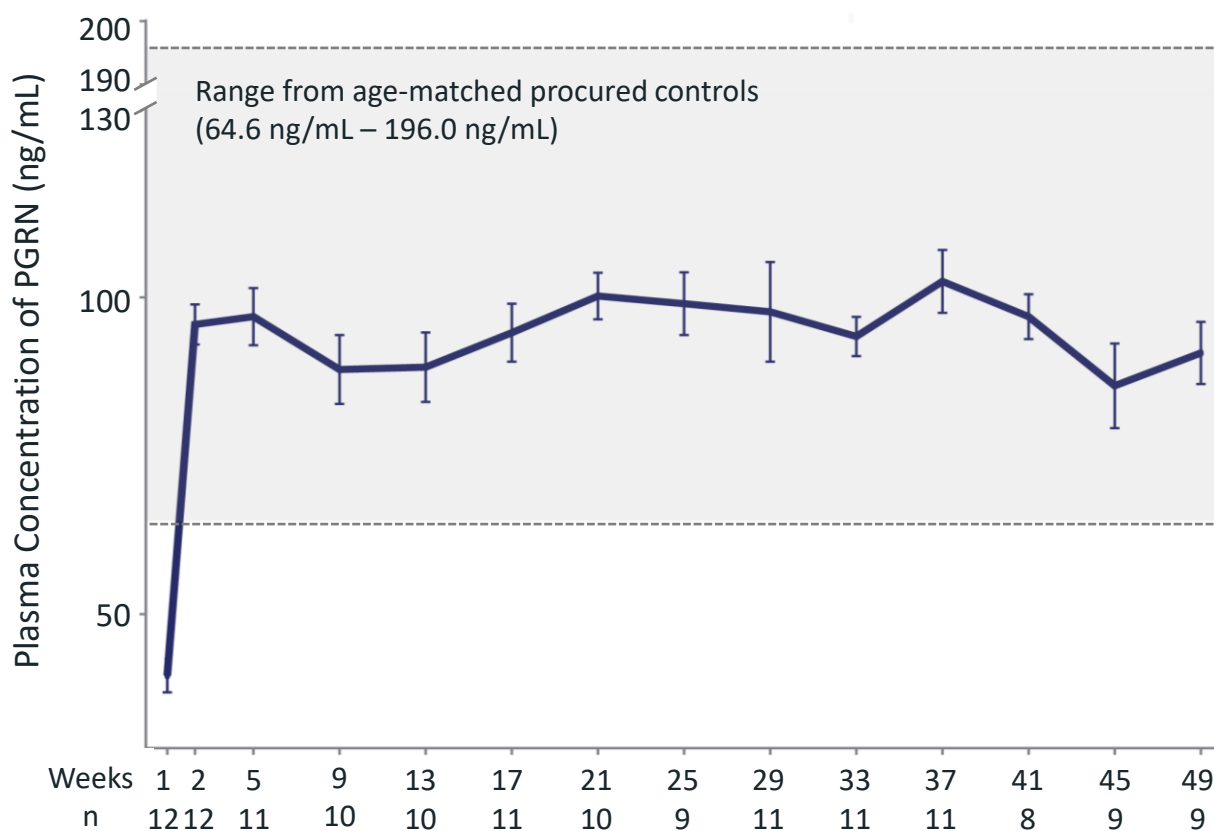
Key biomarkers and clinical outcome assessments reflect underlying disease activity in FTD-GRN patients



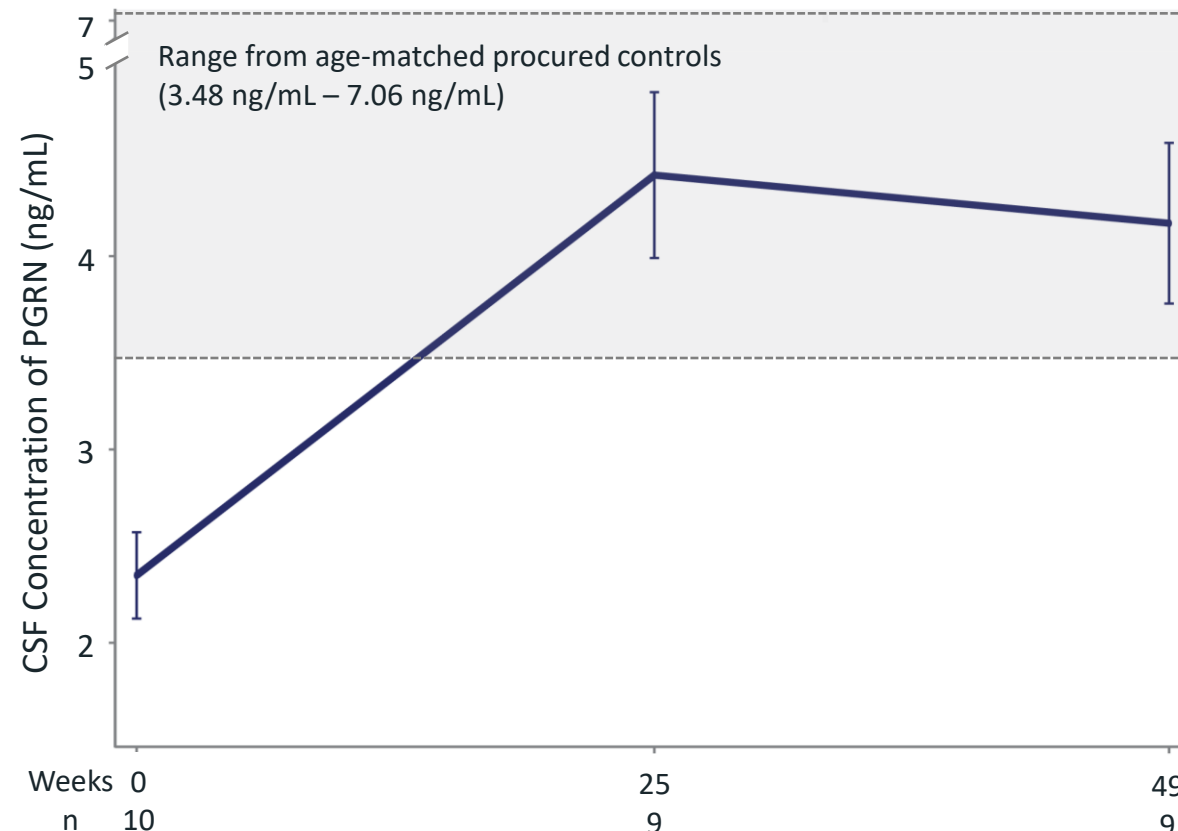
INFRONT-2: AL001 restores PGRN in plasma and CSF to normal levels throughout 12 months of treatment

TARGET ENGAGEMENT

PGRN plasma concentration



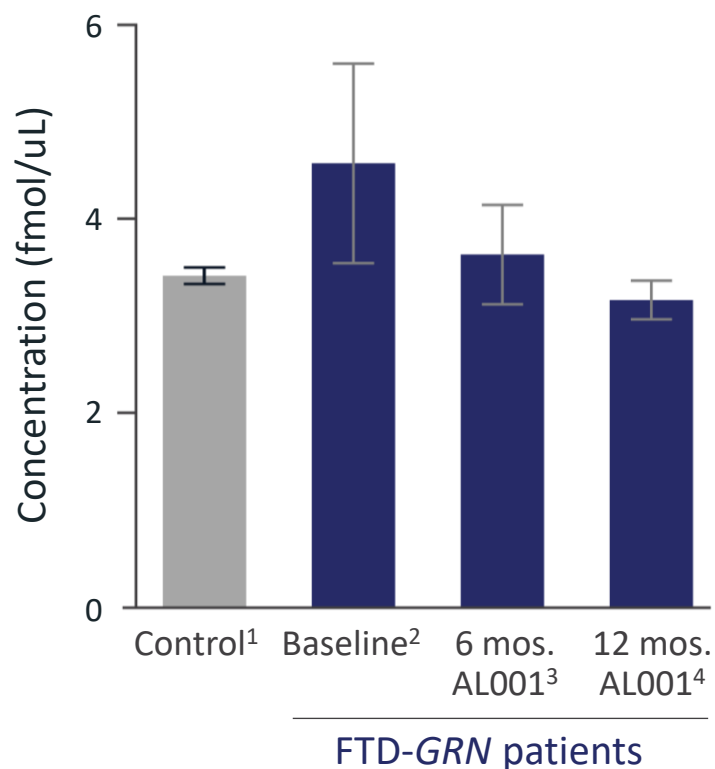
PGRN CSF concentration



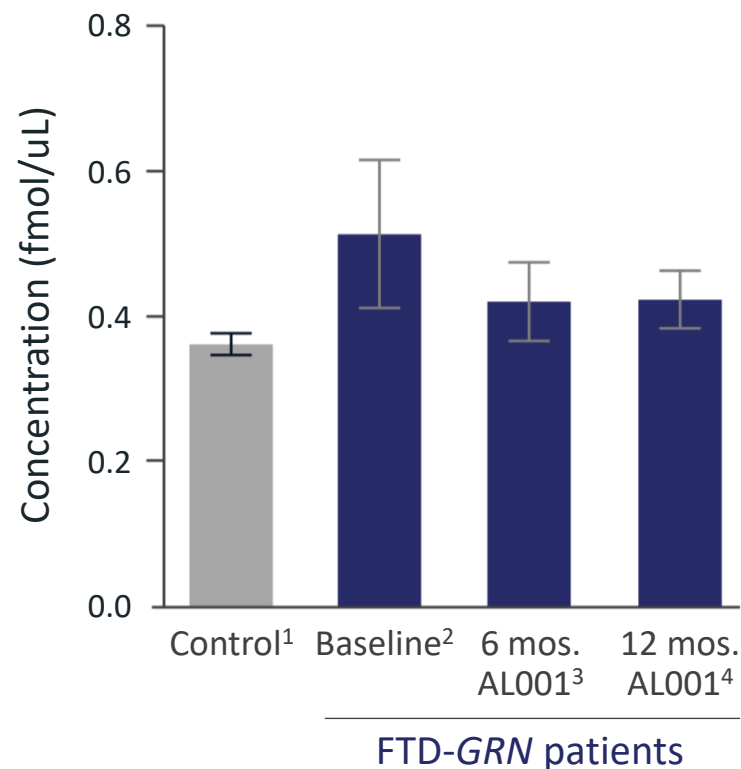
INFRONT-2: AL001 treatment normalizes lysosomal and complement biomarkers in CSF

BIOMARKERS OF DISEASE ACTIVITY

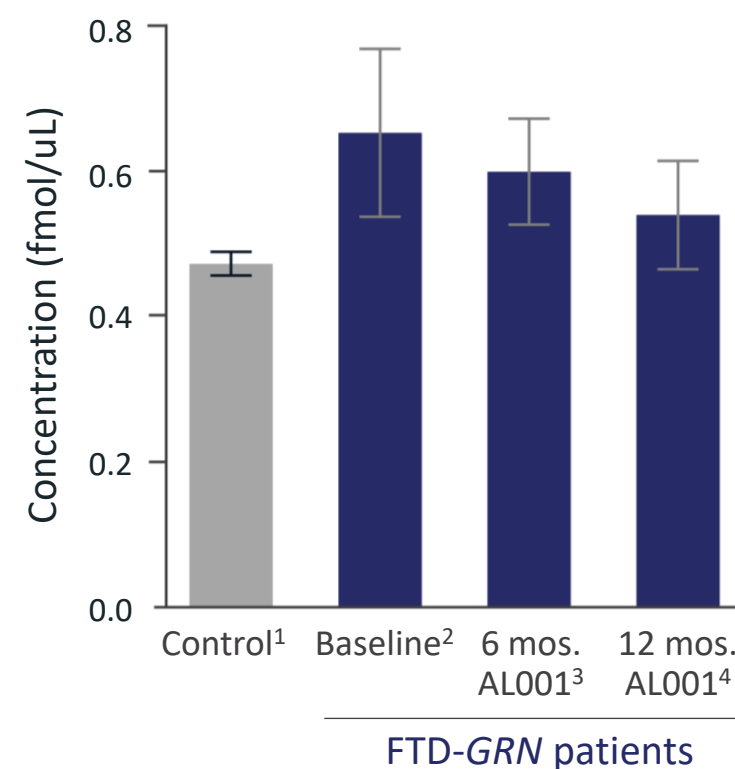
Lysosomal dysfunction - CTSD



Lysosomal dysfunction - LAMP1



Complement activation - C1QB



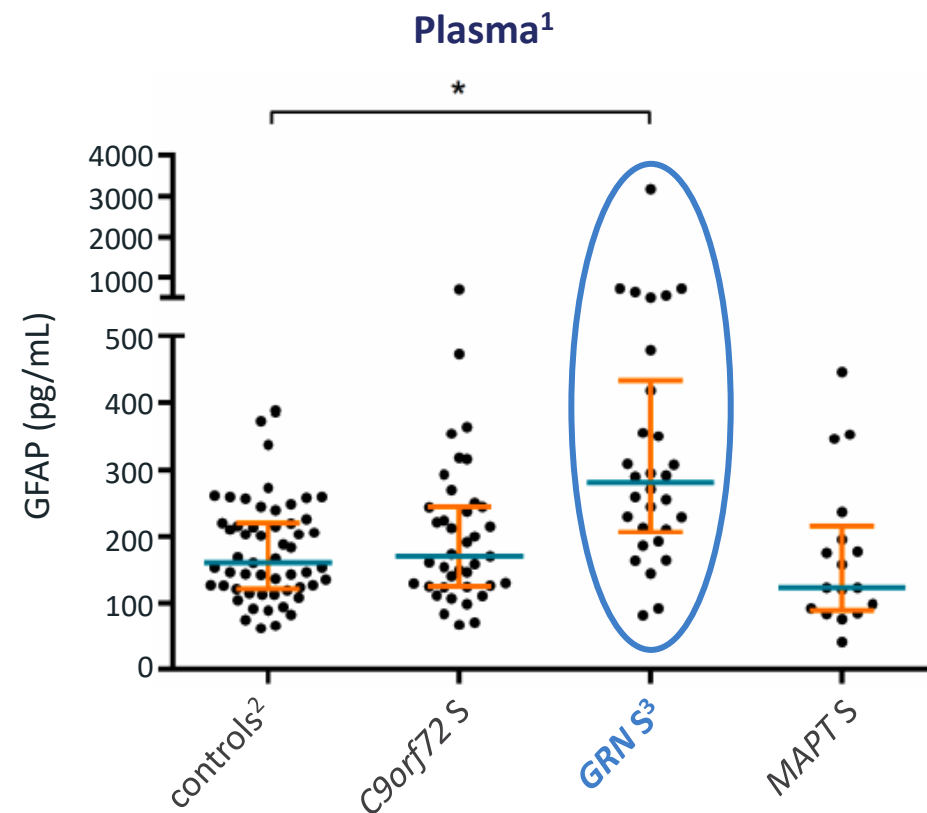
CTSD = cathepsin D; LAMP1 = lysosomal associated membrane protein 1; C1QB = complement C1q B chain
 Mean +/- SEM; Data cut-off June 15, 2021 Only FTD-GRN participants with baseline and post-treatment data are included

1. Age-matched procured control samples (N = 44)
2. N = 11
3. N = 9
4. N = 10

GFAP is a marker of astrogliosis and is elevated in symptomatic FTD-GRN patients

BIOMARKERS OF DISEASE ACTIVITY – ASTROGLIOSIS

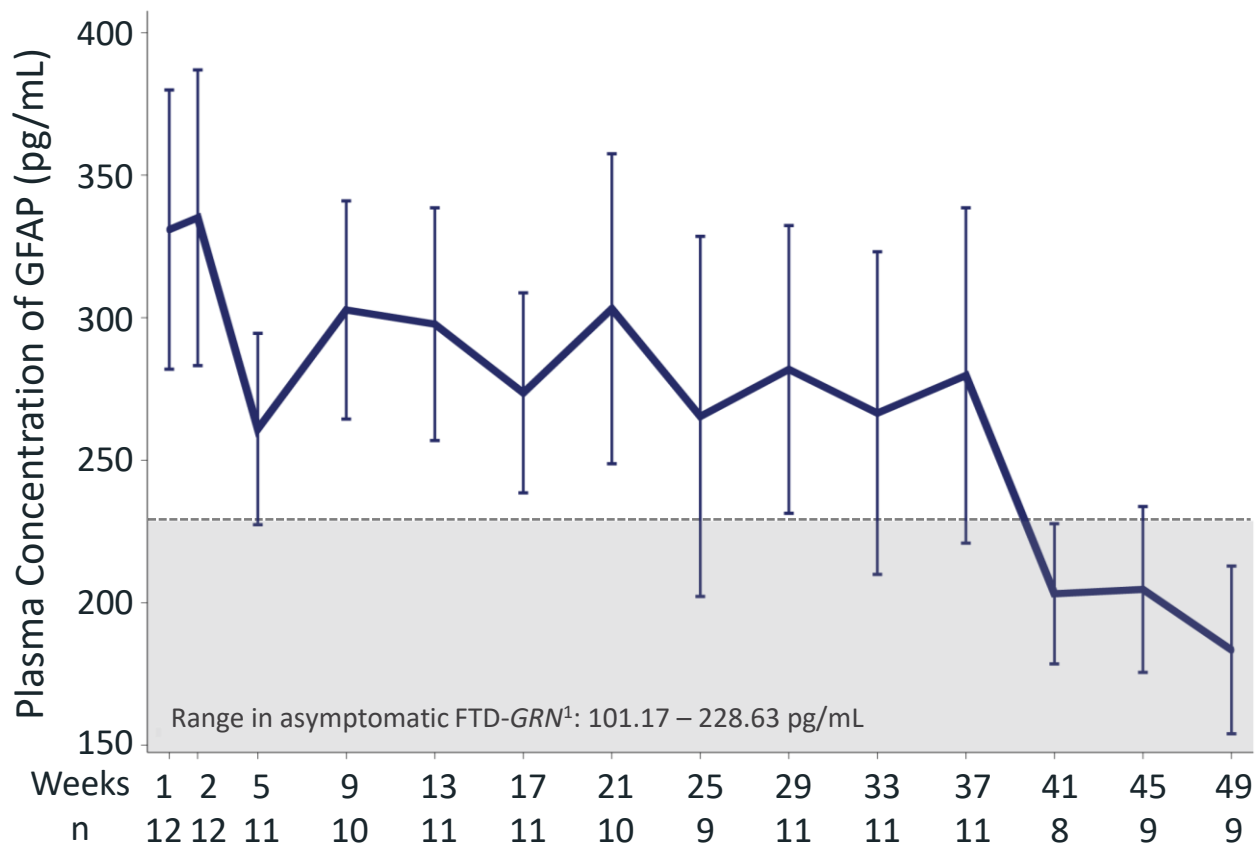
- Astrocytes are the most abundant cell type in the adult CNS and execute vital functions in the maintenance and homeostasis of the CNS
- GFAP is a major component of the astrocytic cytoskeleton and serves as a marker of astrogliosis
- GFAP is elevated in symptomatic FTD-GRN patients compared to age-matched controls¹
- Higher levels of GFAP at baseline are correlated with faster rates of atrophy in the temporal lobe of symptomatic FTD-GRN patients¹



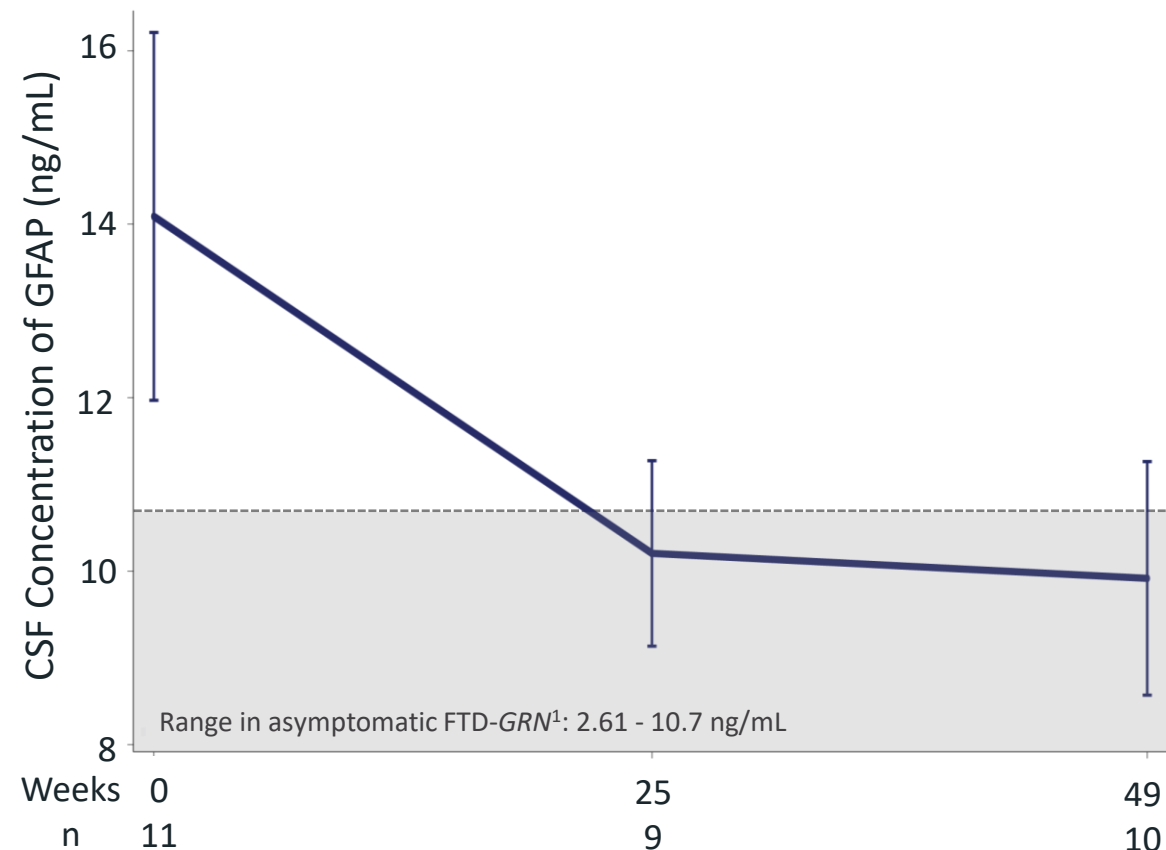
INFRONT-2: AL001 treatment decreases GFAP levels towards normal levels in plasma and CSF of FTD-GRN patients suggesting a reduction in astrogliosis

BIOMARKERS OF DISEASE ACTIVITY – ASTROGLIOSIS

GFAP Plasma Concentration



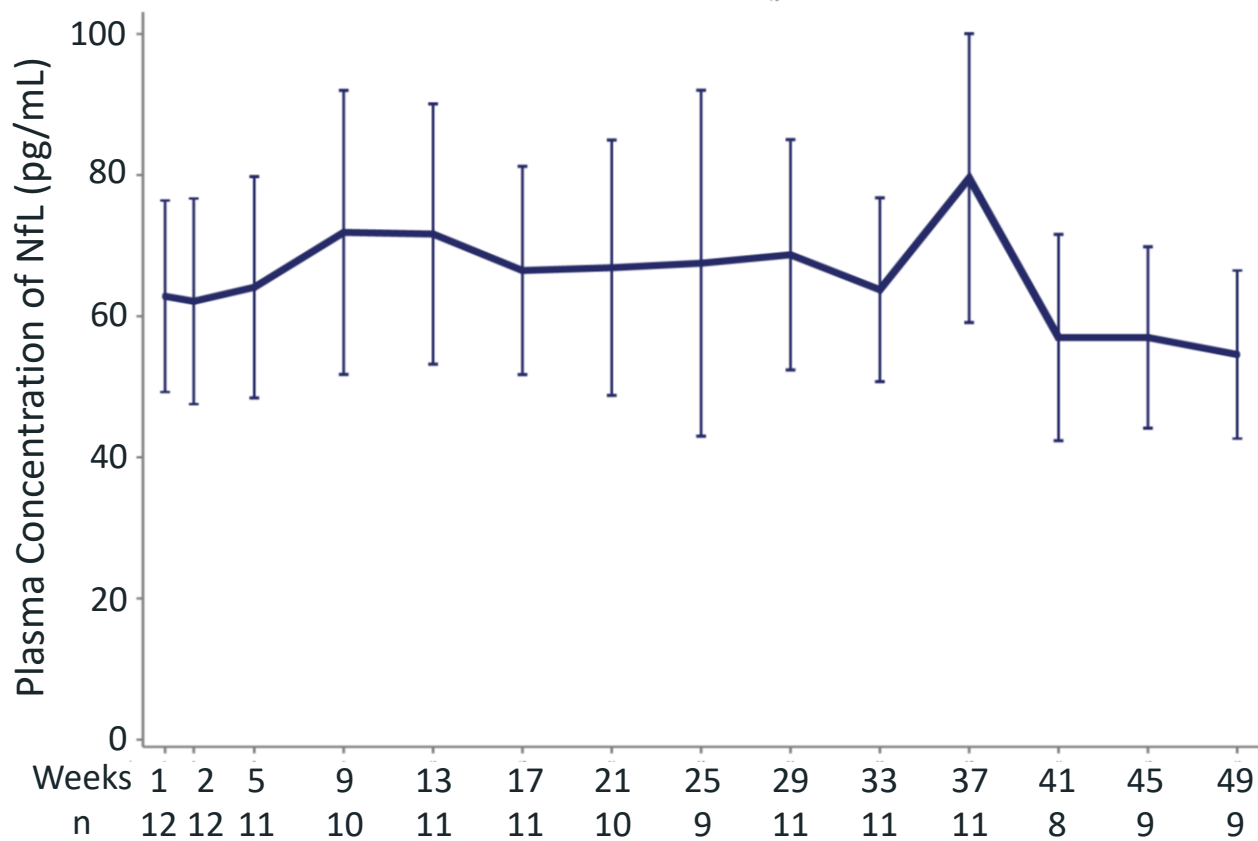
GFAP CSF Concentration



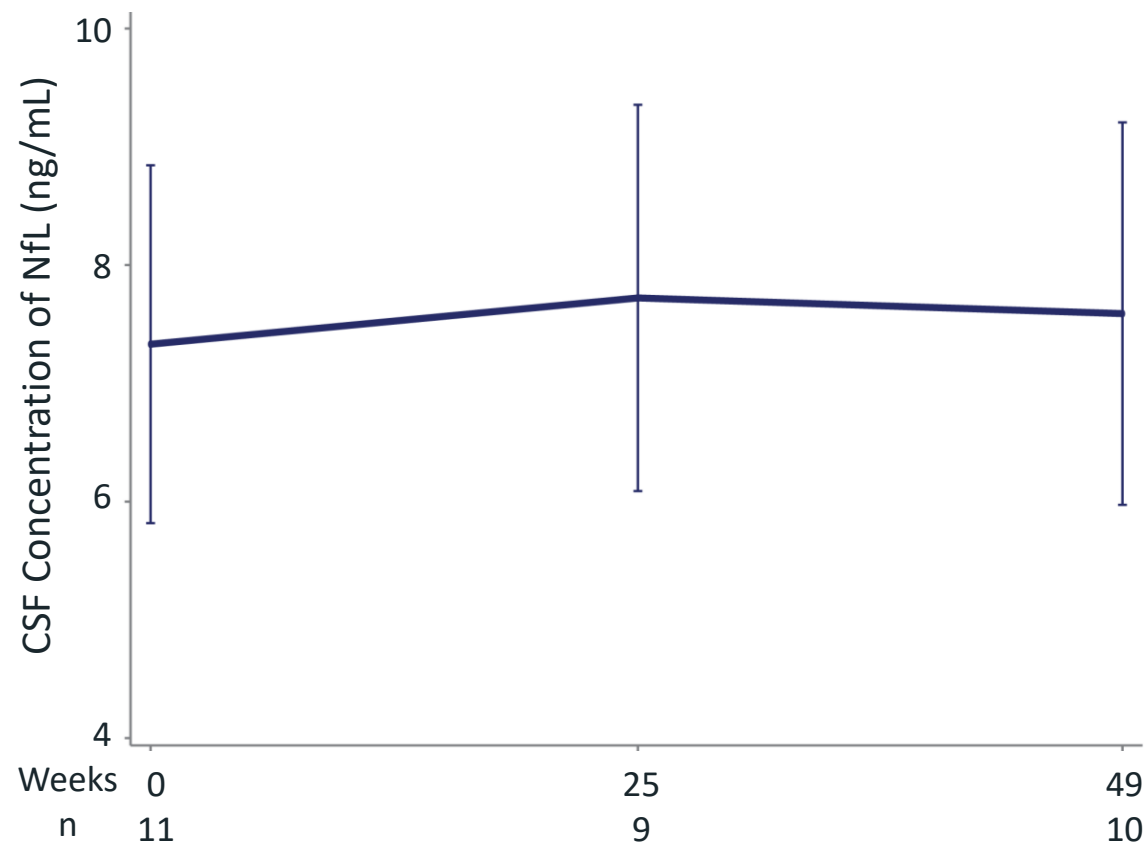
INFRONT-2: NfL levels in plasma and CSF are stable over 12 months in AL001-treated FTD-GRN patients

BIOMARKERS OF DISEASE ACTIVITY – NEURONAL HEALTH

NfL Plasma Concentration



NfL CSF Concentration



Contextualizing INFRONT-2 clinical results with GENFI2 matched controls

- INFRONT-2 clinical results compared against comparable, GENFI2 matched controls
- Comparable baseline characteristics established between INFRONT-2 FTD-*GRN* symptomatic cohort and GENFI2 controls in two-steps:
 - Propensity score matching¹ based on CDR[®] plus NACC FTLD-SB at baseline
 - Matching refined by age, gender, baseline plasma NfL levels, and FTD disease variant at baseline²

Baseline characteristics		INFRONT-2 (N=12)	GENFI2 Matched Controls (N=10)
CDR [®] plus NACC FTLD-SB	Mean (SD)	5.9 (3.74)	5.2 (3.60)
	Min, Max	0.5, 11	0.5, 11.5
AGE (Years)	Mean (SD)	63.2 (9.71)	62.1 (6.74)
	Min, Max	49, 79	52, 72
GENDER	Male	8 (67%)	3 (30%)
PLASMA NfL (pg/mL)	N	12	9
	Mean (SD)	62.8 (47.00)	40.3 (27.28)
	Min, Max	11.2, 148.8	9.3, 99.9
FTD DISEASE VARIANT	bvFTD	5 (42%)	5 (50%)
	PPA	3 (25%)	3 (30%)
	Both	3 (25%)	0
	Other	1 (8%)	1 (10%)

GENFI = The Genetic Frontotemporal Initiative

GENFI2 refers to the longitudinal FTD registry dataset

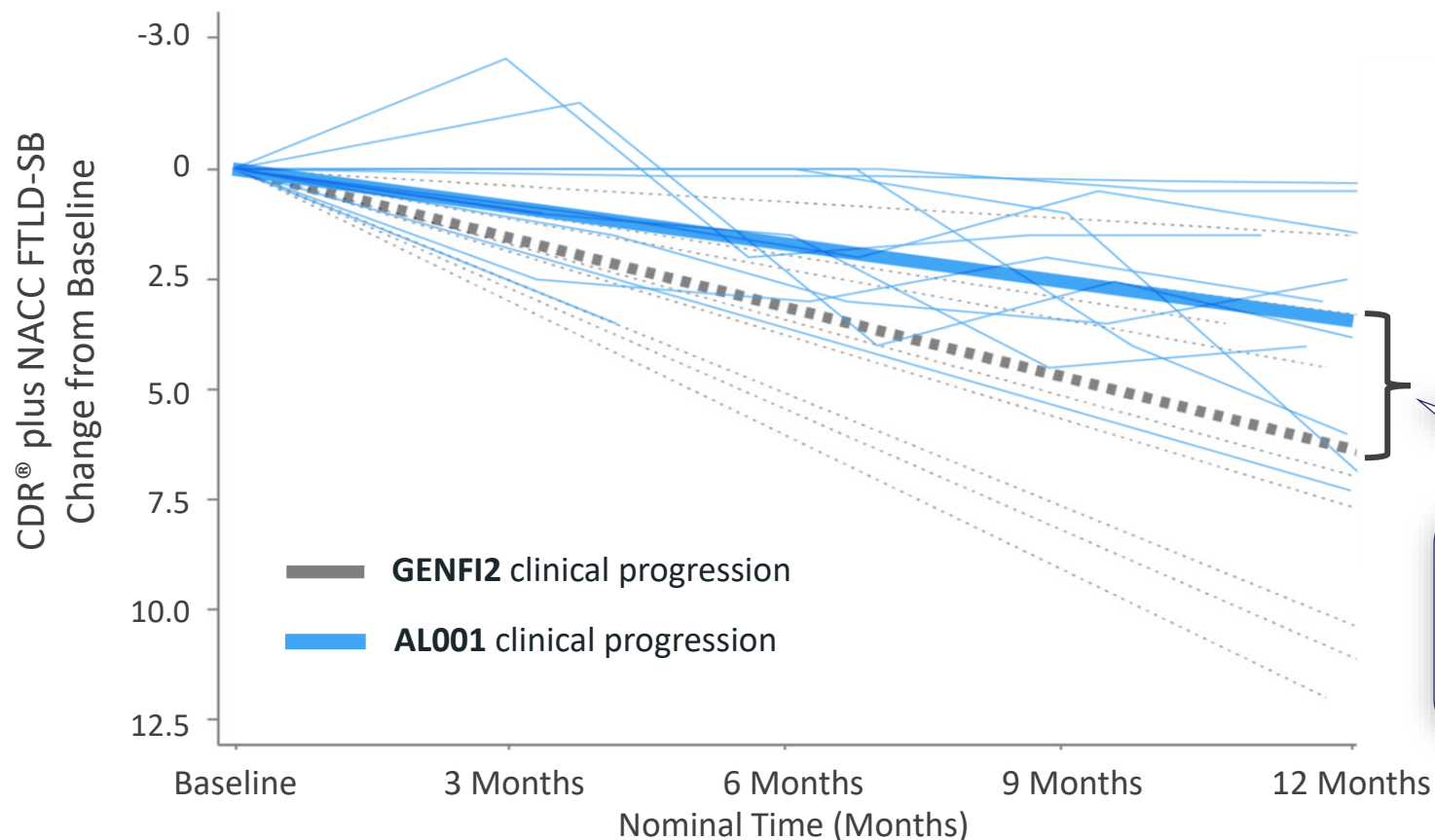
1. Propensity score matching is a well-established statistical method intended to mimic randomization

2. Clinical reviewers blinded to outcome data

Treatment with AL001 showed a slowing of clinical progression in AL001-treated patients relative to matched GENFI2 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 AL001 (n=12)	3.3	[1.38,5.28]
Difference in Annual Change (GENFI2 – AL001)	3.1	[0.24,5.88]

~48%
slowing of clinical progression
(3.1 point change)

Summary

- AL001 treatment is well tolerated in FTD-GRN patients treated for a median duration of 12 months
- AL001 treatment rapidly restored PGRN to normal levels in FTD-GRN patients for the entire duration of treatment
- AL001 treatment demonstrated consistent effects on disease biomarkers in FTD-GRN patients over 12 months including:
 - Persistent trends toward normalization of lysosomal and complement biomarkers
 - Decreased GFAP levels towards normal levels in plasma and CSF
 - Stable NfL levels in plasma and CSF
- AL001 treatment in FTD-GRN patients slowed clinical progression by ~48% as measured by CDR[®] plus NACC FTLD-SB compared with GENFI2 matched controls
- A global, randomized Phase 3 pivotal clinical trial of AL001 in FTD-GRN using CDR[®] plus NACC FTLD-SB as a primary endpoint is actively enrolling (NCT04374136)



Acknowledgements

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GENFI

ALLFTD

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Thank you