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## Corporate Presentation

MAY 2023



ADVANCING NEW THERAPIES FOR NEURONAL HEALTH

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The ACT-AD trial and the related open-label extension for ACT-AD participants was supported by a grant from the National Institute on Aging of the National Institutes of Health under Award Number R01AG06268. The information presented in this press release is solely the responsibility of Athira and does not necessarily represent the official views of the National Institutes of Health.

This presentation concerns drug candidates that are under clinical investigation and which have not yet been approved for marketing by the U.S. Food and Drug Administration. The drug candidates are currently limited by federal law to investigational use, and no representation is made as to their safety or effectiveness for the purposes for which they are being investigated.

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## OUR MISSION

To restore lives by advancing bold therapies for neuronal health, thoughtfully and urgently



# Investment highlights

**Novel small molecule compounds designed to act on a naturally occurring mechanism to protect and repair neuronal networks**

## **HGF/MET neurotrophic system is critical to normal brain function and plays a key role in neurological diseases**

- Therapeutic potential in Alzheimer's, Parkinson's, ALS, neuropathic pain, etc.

## **Late-stage clinical development ongoing with fosgonimeton without concomitant AChEI in Alzheimer's disease**

- Exploratory ACT-AD trial showed congruent improvements in biomarkers of neurodegeneration, inflammation and Alzheimer's protein pathologies as well as measures of cognition and function
- Mitigated development risk of lead program fosgonimeton for Alzheimer's following independent unblinded interim analysis of Phase 2/3 LIFT-AD trial
- Well-tolerated with a favorable safety profile

## **Robust pipeline of proprietary small molecules targeting HGF/MET**




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**Strong balance sheet**  
to support clinical programs  
through key inflection points

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**Leadership team** with significant  
CNS product development and  
approval experience

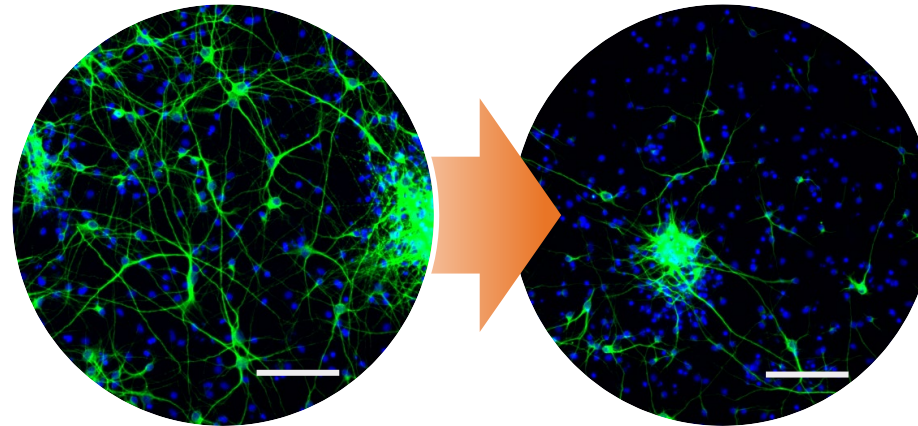
# Therapeutic potential across a broad range of clinical indications

Program	Indication		PRECLINICAL		CLINICAL			Status
			Early Discovery	IND-Enabling Studies	Phase 1	Phase 2	Phase 3	
Fosgonimeton	Alzheimer's Disease		Phase 2/3 Clinical Trial				> Open-Label Extension	LIFT-AD enrollment ongoing
			Phase 2 Clinical Trial				> Open-Label Extension	ACT-AD topline data reported 2Q22
	Parkinson's Disease Dementia and Dementia with Lewy Bodies		Exploratory Phase 2 Clinical Trial					SHAPE enrollment completed with 28 patients
ATH-1020	Neuropathic Pain; Neurodegenerative Diseases		Phase 1 Clinical Trial					Single-ascending dose completed in healthy volunteers; no safety findings
ATH-1105	Amyotrophic Lateral Sclerosis (ALS)		IND-Enabling studies					Ongoing; target Phase 1 trial initiation in 2024
Early Compounds	Neurodegenerative Diseases		Discovery and Development					Ongoing

# Multifactorial complex pathologies lead to neurodegeneration

## CAUSES OF NEURODEGENERATIVE DISEASES

Inflammation  
Oxidative stress  
Protein pathology  
Excitotoxicity  
Synaptic dysfunction



HEALTHY

DISEASED

■ = Neuron Marker

## HALLMARKS OF NEURODEGENERATION

Neuronal damage  
Loss of network connectivity  
Loss of function  
Disease progression

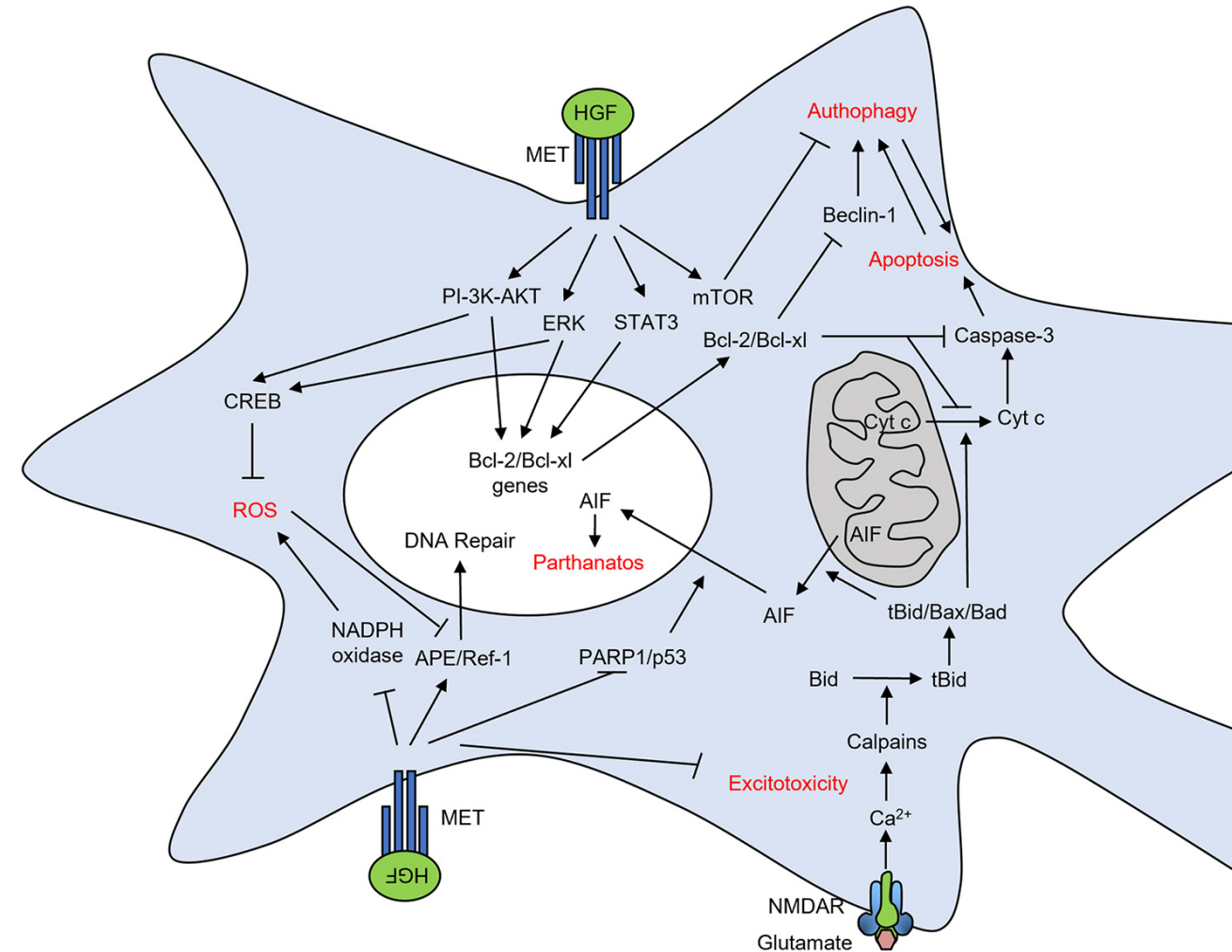
# HGF/MET is a critical neuroprotective system

THE ROLE OF HGF/MET IN THE NERVOUS SYSTEM HAS BEEN EXPLORED THROUGH 30 YEARS OF RESEARCH

**HGF/MET activates signaling pathways to protect neurons from:**

- Oxidative stress
- Excitotoxicity
- Apoptosis

*Adapted from Desole et al, 2021*





# Positive modulators of the HGF/MET neurotrophic system

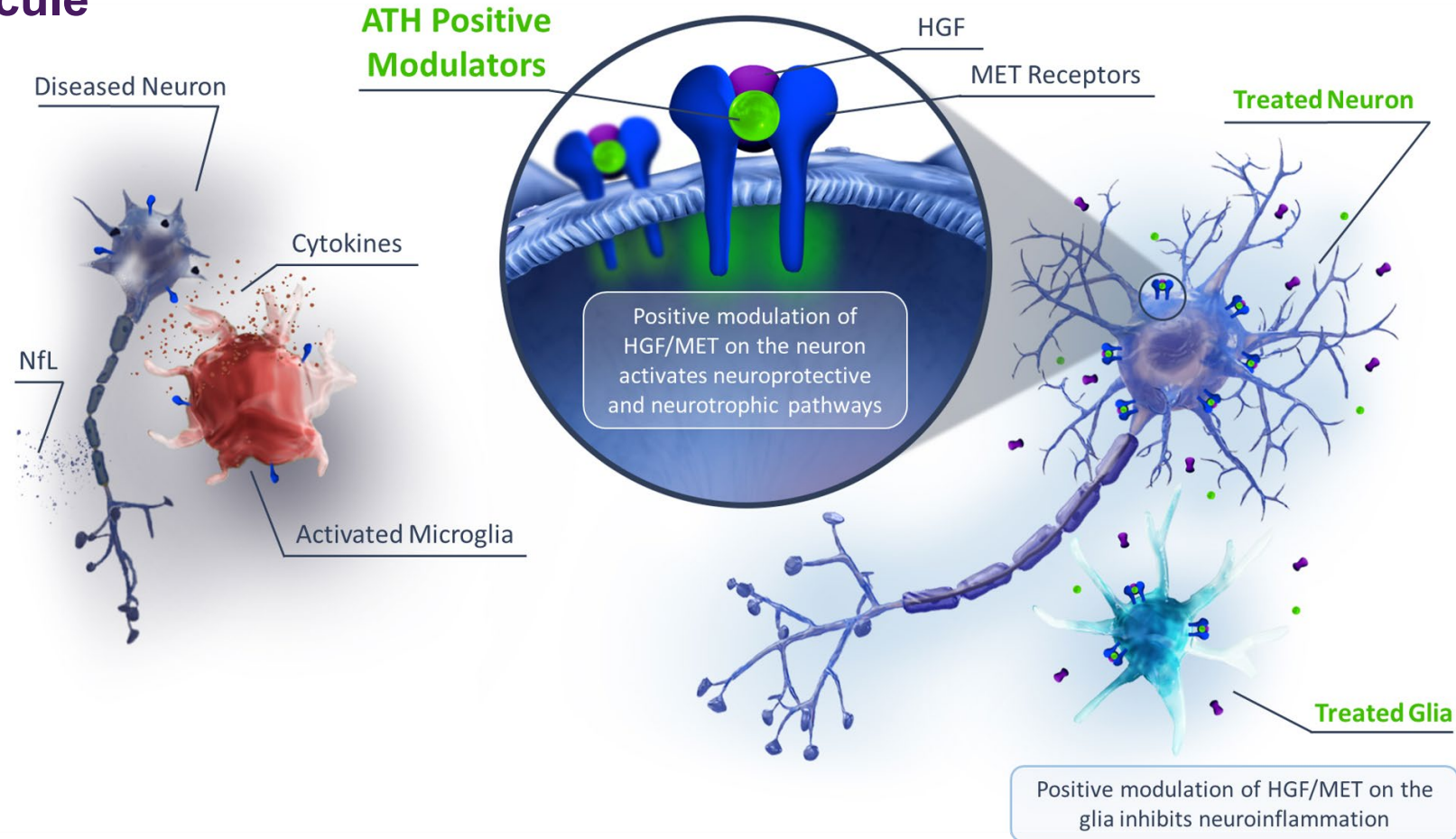
**MULTIMODAL, PROTECTIVE, REGENERATIVE, DISEASE MODIFYING**

## Potential first-in-class small molecule drug candidates

- Able to cross the blood-brain barrier
- Positively modulate HGF/MET

## Mechanism of action may

- Reduce inflammation
- Promote regeneration
- Provide neuroprotection
- Modify the course of disease



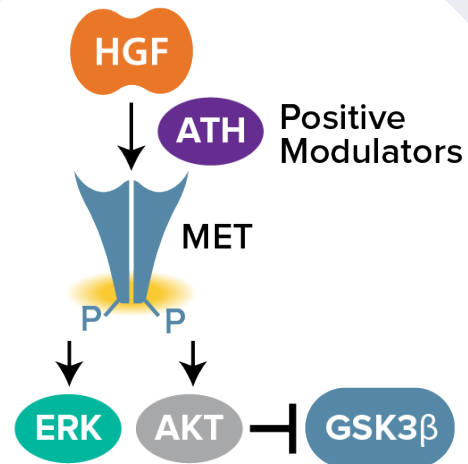
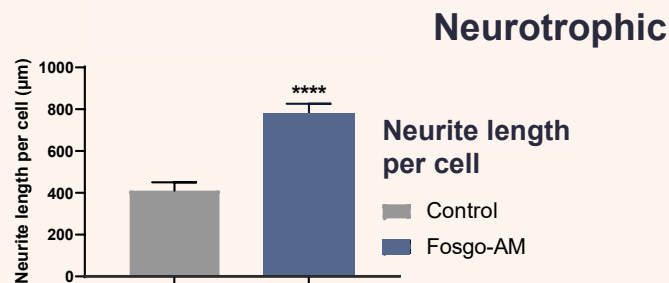
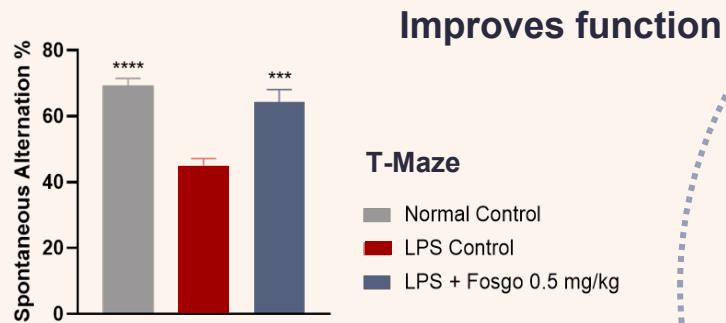


# Fosgonimeton protects and repairs neuronal networks in preclinical models

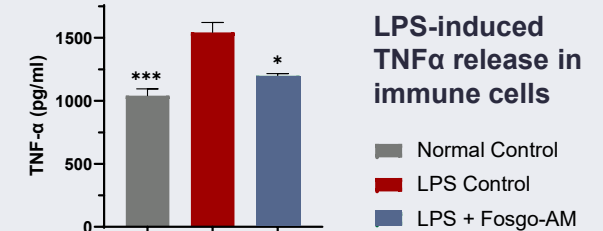
## MULTIMODAL APPROACH FOR MULTIMODAL DISEASES WITH POTENTIAL FOR DISEASE MODIFICATION

### REPAIR

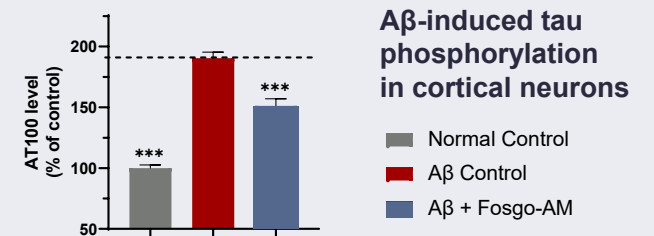
### PROTECT



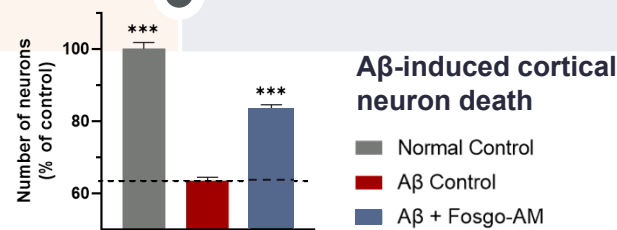
### Anti-inflammatory



### Reduces protein pathology



### Neuroprotective



<sup>1</sup>Johnston et al., *Neurotherapeutics* 2022, Berthiaume, et al., *MNDA* 2022, Reda et al., *AAIC* 2022, Setti et al., *Sfn* 2022.

Aβ, amyloid beta; AKT, protein kinase B; ERK, extracellular-signal regulated kinase; fosgo-AM, fosgonimeton active metabolite; GSK3b, glycogen synthase kinase-3 beta; HGF, hepatocyte growth factor; LPS, lipopolysaccharide; TNF-α, tumor necrosis factor alpha.

# Fosgonimeton exploratory phase 2 trial in mild-to-moderate Alzheimer’s disease



## RANDOMIZED PLACEBO-CONTROLLED SIX-MONTH TRIAL (N=77)

**Key Inclusion Criteria**

- 55–85 years
- MMSE score: 14-24
- CDR global score 1 or 2
- Clinical diagnosis of dementia, probably due to AD<sup>1</sup>
- Could receive prior or concomitant AChEI
- Reliable and capable support person/caregiver

**Patient Population**  
**Mean Baseline Characteristics**

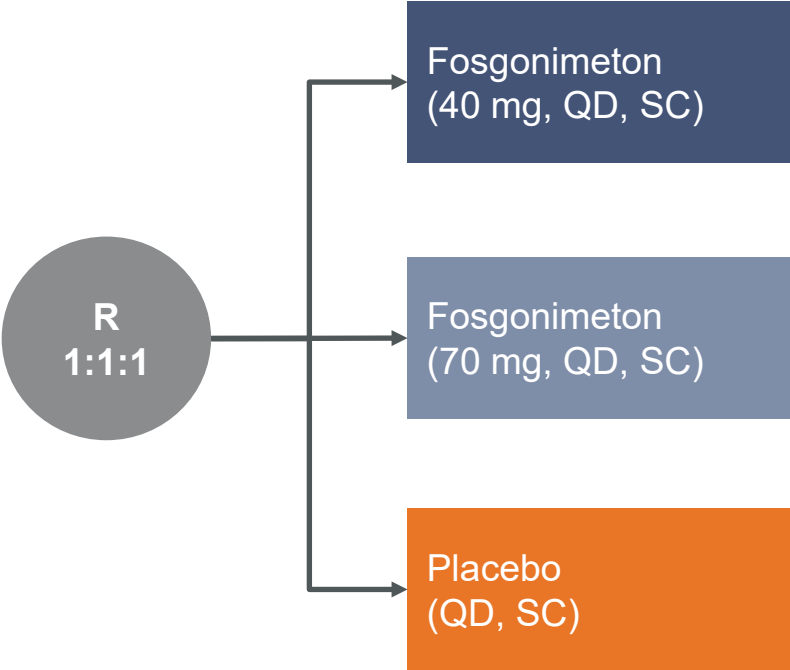
Age, years:	71.4
MMSE	19.3
Concomitant AChEI, %:	61.0

**APOE4 carrier status**

Heterozygous, %:	36.4
Homozygous, %:	19.5

**Plasma biomarkers**

Aβ 42/40 ratio:	0.06
p-Tau181, pg/mL:	3.83
NfL, pg/mL:	20.92



**Endpoints**  
Primary: Change in ERP P300 latency (not met), safety and tolerability  
Secondary: ADAS-Cog11, ADCS-CGIC, ADCS-ADL23  
Exploratory: Plasma biomarkers

**Key Learnings from ACT-AD**

- Fosgonimeton was well-tolerated with a favorable safety profile
- Unexpected potential pharmacodynamic interaction with AChEIs
- Greater than 85% enrollment into OLEX from both ACT-AD and LIFT-AD studies
- Congruent clinical effects and biological signals



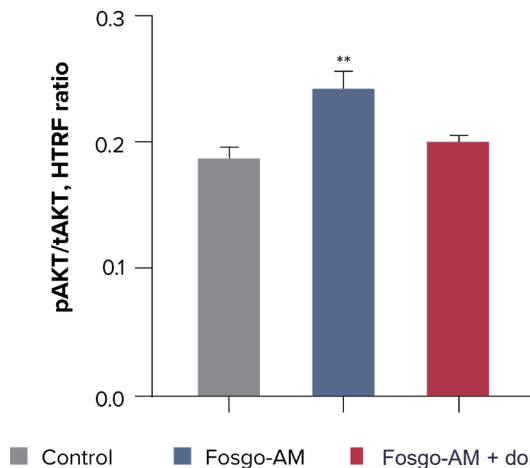
<sup>1</sup>McKhann GM et al., *Alzheimer's Dementia* 2011.  
Aβ, amyloid beta; AChEI, acetylcholinesterase inhibitor; AD, Alzheimer's disease; ADAS-Cog11, Alzheimer's Disease Assessment Scale–Cognitive Subscale; ADCS-ADL23, Alzheimer's Disease Cooperative Study–Activities of Daily Living; ADCS-CGIC, Alzheimer's Disease Cooperative Study–Clinical Global Impression of Change; APOE, apolipoprotein E; CDR, clinical dementia rating; ERP, event-related potential; MMSE, mini-mental state examination; NfL, neurofilament light chain; OLEX, open-label extension; p-Tau181, tau phosphorylated at threonine-181; QD, once daily; R, randomization; SC, subcutaneous; SD, standard deviation.

# Neuroprotective effects of fosgonimeton are reduced with exposure to AChEIs

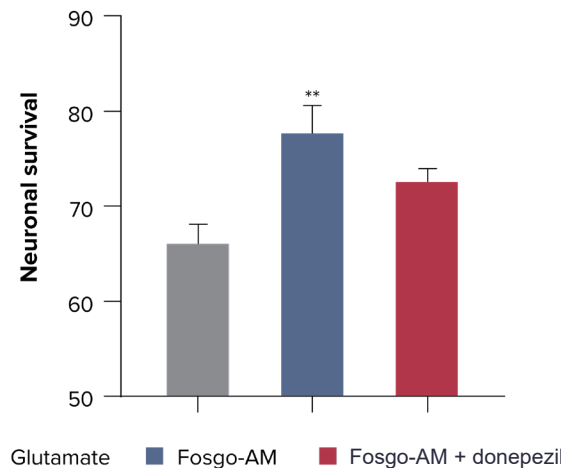
## Preclinical

- Combination of fosgo-AM with donepezil interferes with fosgo-AM-induced AKT activation
- Neuroprotective effects of fosgo-AM are reduced when combined with donepezil
  - Likely the result of observed decrease in fosgo-AM-induced AKT activation

**AKT activation**



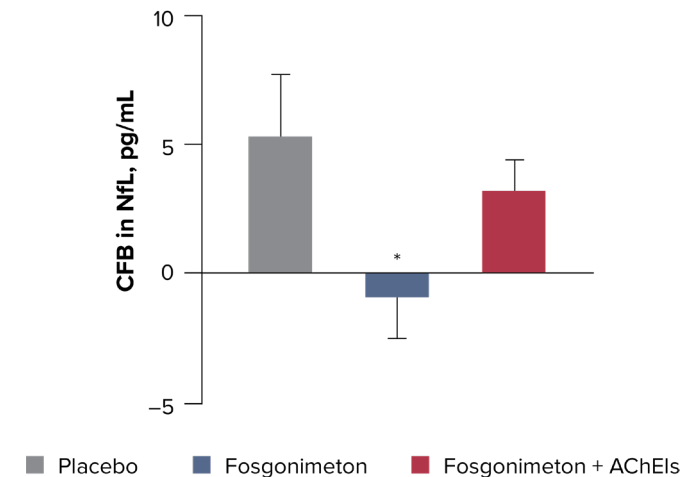
**Glutamate toxicity**



## Clinical

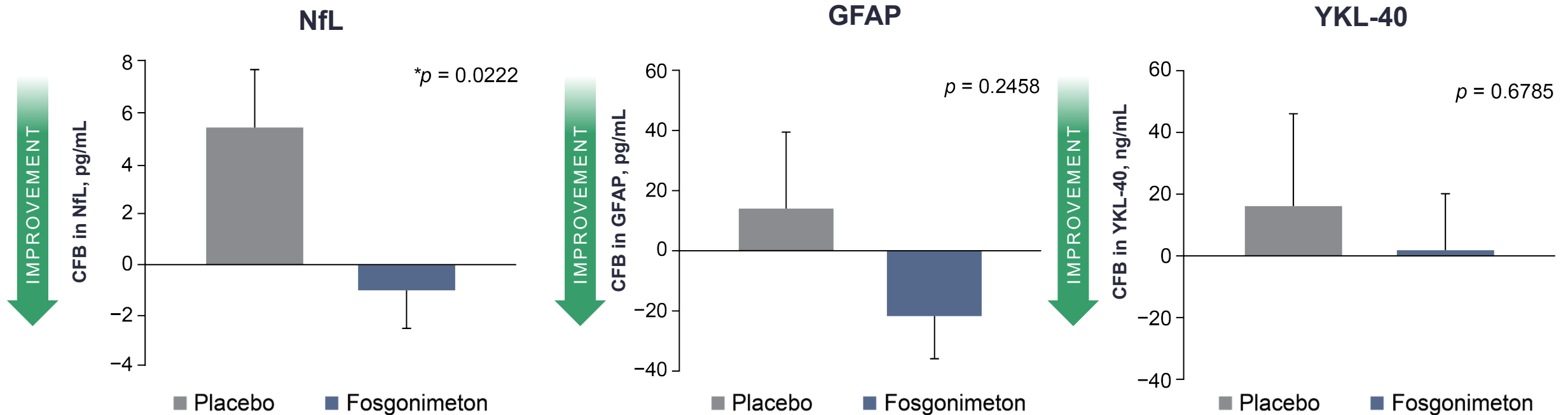
- Fosgonimeton significantly reduced NfL, a biomarker of neurodegeneration, in the ACT-AD study
- When combined with AChEIs, NfL increased, suggesting a loss of the neuroprotective effect
- This result is consistent with preclinical findings of reduced neuroprotection in combination with AChEIs

**NfL**





# Neuroprotective and anti-inflammatory: Fosgonimeton reduces markers of neurodegeneration and inflammation

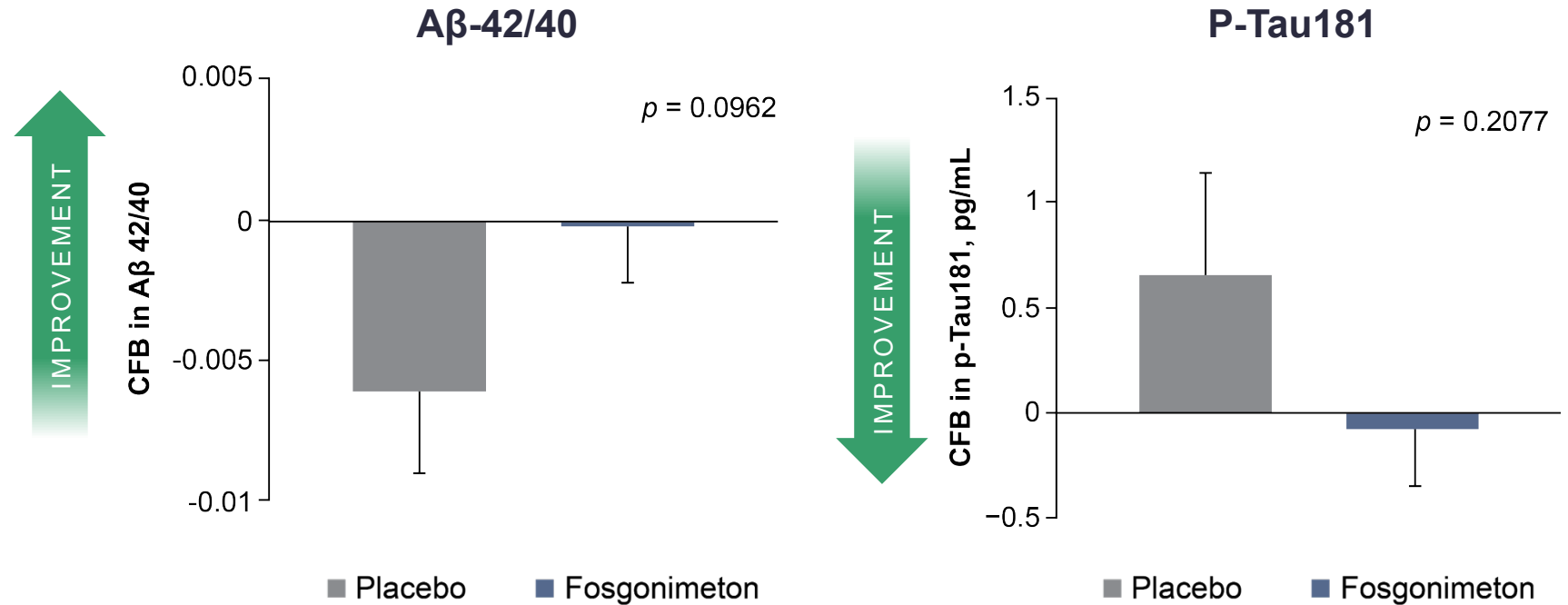


- Neurofilament light (NfL) is an established, objective biomarker of neurodegeneration
- Decrease of NfL to below baseline levels suggestive of repair in this continuously progressive disease

- GFAP and YKL-40 are markers of neuroinflammation
- Magnitude of decrease is encouraging in this continuously progressive condition

# Protein pathology: Fosgonimeton induces directional improvements in hallmarks of Alzheimer's disease

- Decreased A $\beta$  42/40 ratio and increased absolute p-Tau values are hallmarks of Alzheimer's disease
- Changes support relevance of the HGF/MET pathway also to Alzheimer's-specific protein pathology
- Supports disease modifying potential of fosgonimeton



Data are least square means from an ANOVA model with change from baselines as the dependent variable with the following in the model: treatment group, AChEI use, baseline biomarker value and the interaction of treatment and AChEI use. Error bars are  $\pm$  SE. N=5 for placebo treatment; N=11 or 12 for fosgonimeton treatment without concomitant AChEI.

A $\beta$ , amyloid beta; CFB, change from baseline; HGF, hepatocyte growth factor; p-Tau181, tau phosphorylated at threonine-181; SE, standard error.

# Functional improvements: Potential benefits in cognition and function from fosgonimeton treatment



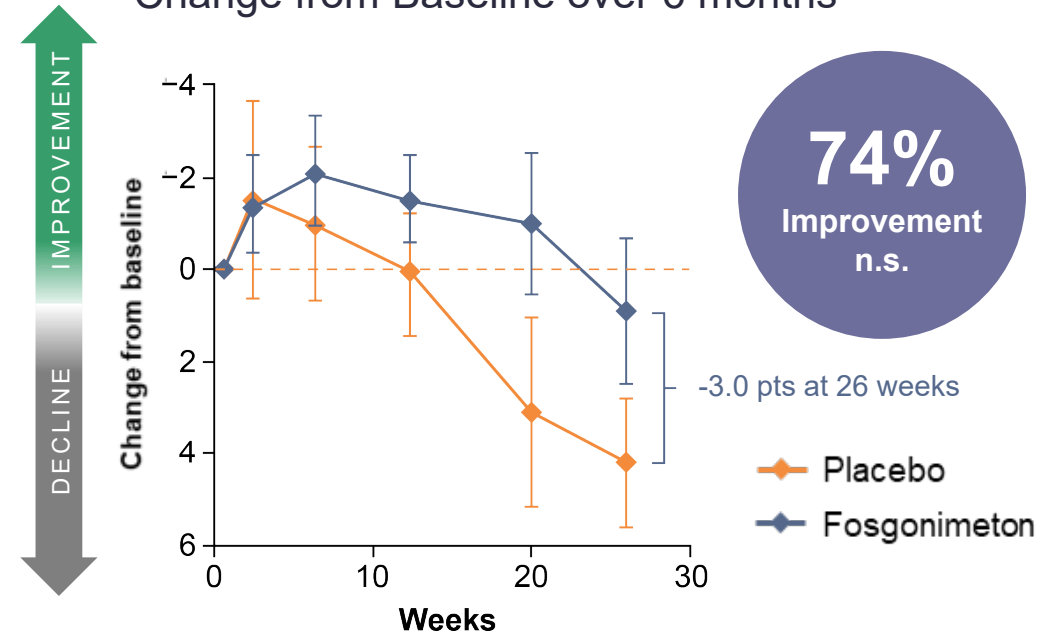
SUPPORTS POTENTIAL TO BE A SAFE AND DIFFERENTIATED FUTURE THERAPY

**74%** | **-3.0**  
points n.s. | **IMPROVED COGNITION**  
Improvement over placebo over 6 months  
as measured by ADAS-Cog11 in patients  
without background therapy

**41%** | **+1.7**  
points n.s. | **IMPROVED FUNCTION**  
Improvement over placebo over 6 months  
as measured by ADCS-ADL23 in full  
study population

Favorable safety and tolerability profile,  
injection site reactions are most frequent AE

## ADAS-COG11 (Procognitive Effect) Change from Baseline over 6 months



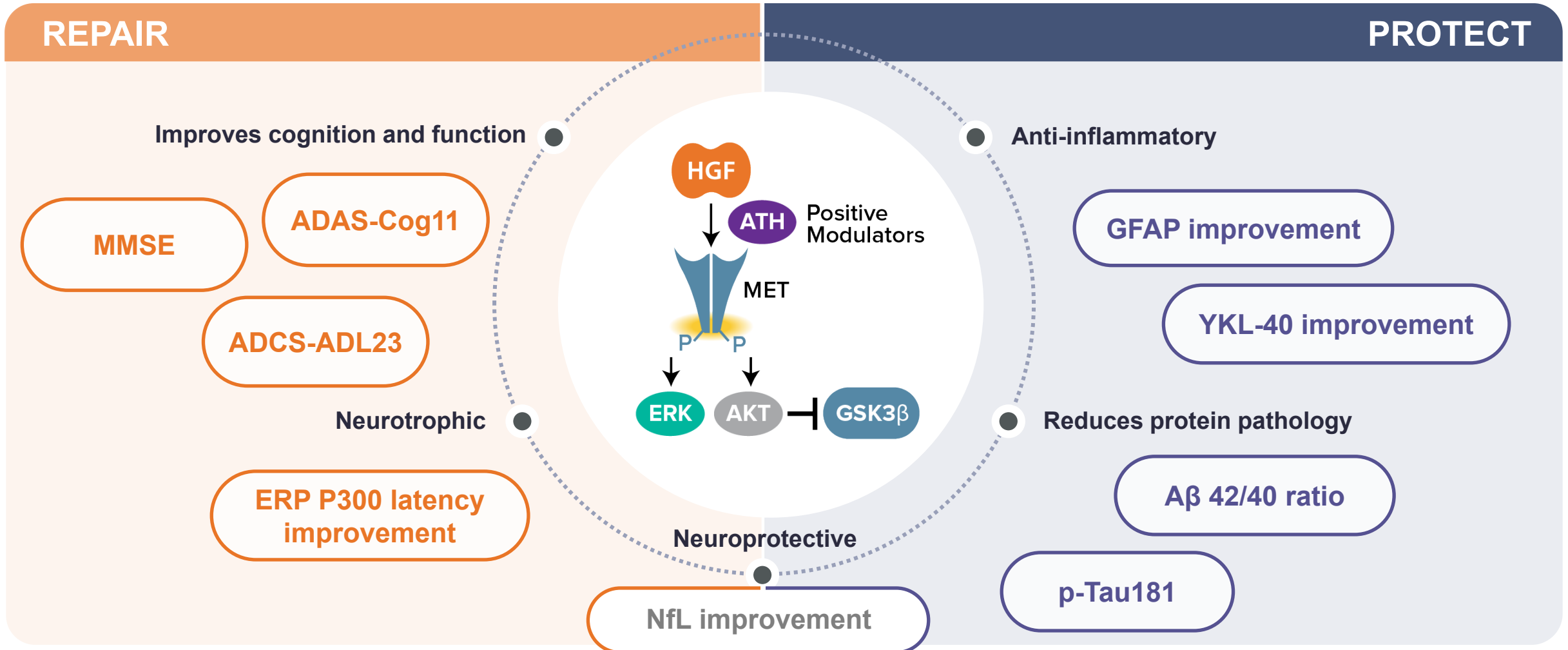
n at each visit	W2	W6	W12	W20	W26
Placebo	8	8	7	7	6
Fosgonimeton	19	19	17	16	17

Data from mITT population without background therapy and presented as unadjusted mean  $\pm$  SEM; n.s., not statistically significant.  
AD, Alzheimer's disease; ADAS-Cog11, Alzheimer's Disease Assessment Scale–Cognitive Subscale; ADCS-ADL23, Alzheimer's Disease Cooperative Study–Activities of Daily Living; AE, adverse event; mITT, modified intent-to-treat; W, week.



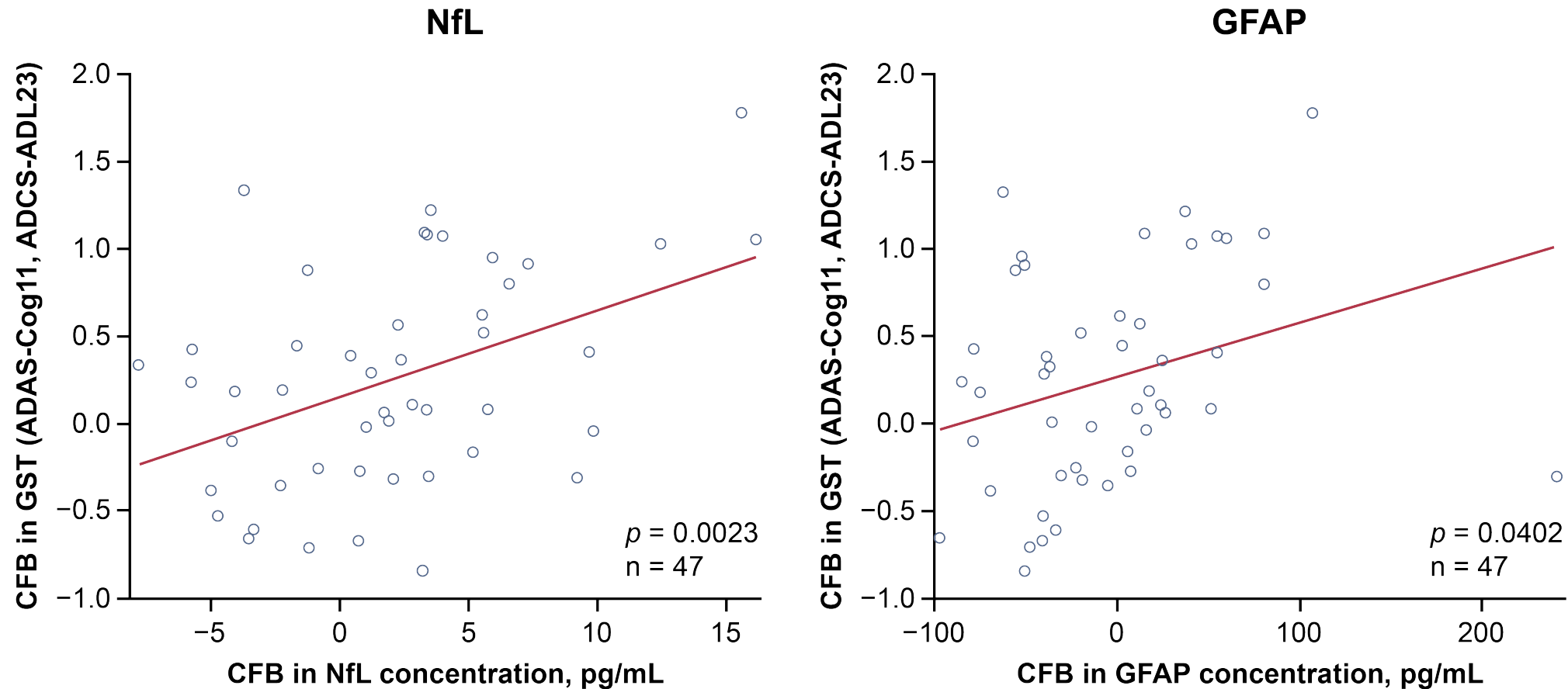
# Clinical findings support therapeutic potential of fosgonimeton

## SUMMARY OF ACT-AD RESULTS<sup>1</sup>



# Decreases in disease state biomarkers significantly correlate with improvements in cognitive and functional measures

## EXPLORATORY ANALYSIS IN FULL STUDY POPULATION



# Fosgonimeton phase 2/3 LIFT-AD trial after amendment



## LEARNINGS FROM ACT-AD INFORM TRIAL DESIGN OPTIMIZATION

### POPULATION

**N** = ~300 participants  
without concomitant AChEI

**Mild-to-moderate AD**  
(MMSE 14-24; CDR 1-2)

**26-week randomized,  
double-blind treatment,  
+ optional 30-month OLEX**

Fosgonimeton (40 mg)

Placebo

### ENDPOINTS

#### PRIMARY

- Composite endpoint of cognition and function (ADAS-Cog11 and ADCS-ADL23)
- Safety

#### SECONDARY

- Plasma NfL biomarker
- Cognition: ADAS-Cog11
- Function: ADCS-ADL23

#### EXPLORATORY

- Additional clinical endpoints and plasma biomarkers

**TIMELINE:** To be updated following End of Phase 2 Meeting with FDA

A $\beta$ , amyloid beta; AD, Alzheimer's disease; ADAS-Cog11, Alzheimer's Disease Assessment Scale–Cognitive Subscale; ADCS-ADL23, Alzheimer's Disease Cooperative Study–Activities of Daily Living; ADCS-CGIC, Alzheimer's Disease Cooperative Study–Clinical Global Impression of Change; CDR, clinical dementia rating; COWAT, controlled oral word association test; EQ-5D-5L, 5-level EQ-5D version; GFAP, glial fibrillary acidic protein; GST, global statistical test; NfL, neurofilament light chain; NPI, neuropsychiatric inventory; OLEX, open-label extension; p-Tau181, tau phosphorylated at threonine 181; p-Tau217, tau phosphorylated at threonine 217; YKL-40, chitinase-3–like protein 1; ZBI, zarit burden interview.



# Independent unblinded analysis by DMC supports the potential clinically meaningful activity of fosgonimeton



## DEVELOPMENT PLAN OPTIMIZED WITH MITIGATED RISK

### Pre-specified Methodology<sup>1</sup>

- Adaptive method enabling sample-size re-estimation based on interim findings that measures a candidate therapy's performance
- Monte Carlo simulations run to inform pre-specified decision framework
- Pre-specified constraints included maximum enrollment limit and minimum target power

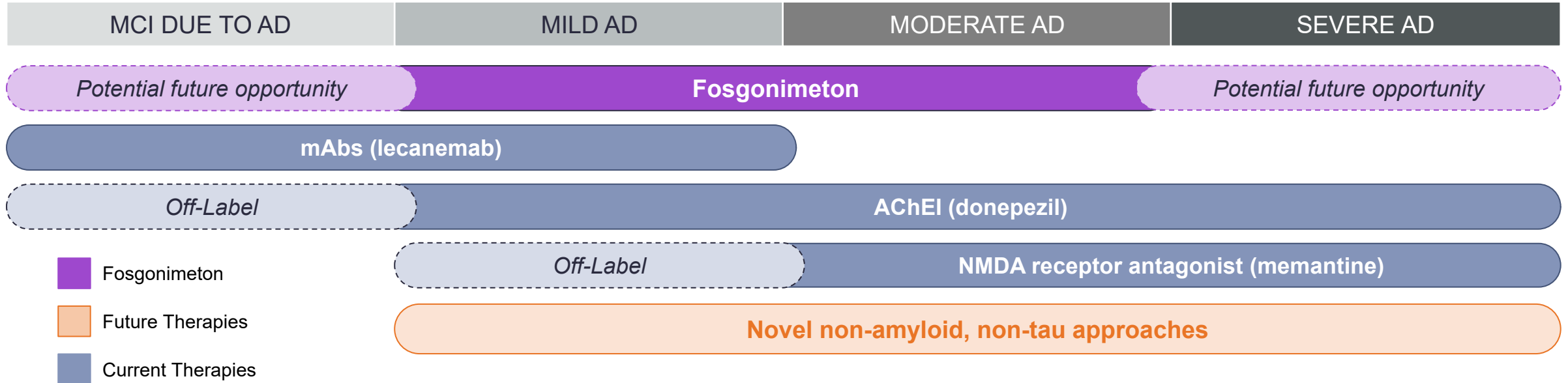
		ADCS-ADL23					
		0	+1	+2	+2.5	+3	+4
ADAS-Cog11	0						
	-1						
	-2						
	-2.5						
	-3						
	-4						

### ANALYSIS & OUTCOME

- Efficacy and futility analysis performed on 100 patients without concomitant AChEIs who completed the trial
- DMC Recommendation (Oct 2022): **Continue LIFT-AD Study**
- Supports potential to achieve the primary endpoint, a composite score measuring cognition and function

# Significant opportunity in Alzheimer's disease

## EXTERNAL ENVIRONMENT



**81% of all patients diagnosed with Alzheimer's disease are mild-to-moderate**

2.1 million mild-to-moderate Alzheimer's patients diagnosed in 2021 in the US

**Few available options**

75% of patients in the US move to a second-line treatment in less than a year

**Evolving regulatory environment favoring biomarker data and composite endpoints**

# Strong rationale to advance fosgonimeton

**SIGNIFICANT OPPORTUNITY TO TRANSFORM THE TREATMENT PARADIGM FOR NEURODEGENERATIVE DISEASES**

**Anti-Inflammatory**

**Neuroprotective**

**Improves Cognition**

**Improves Function**

**Disease Modifying**

**Favorable Safety and Tolerability Profile**

**Risk Mitigated Ph 2/3 LIFT-AD following Interim Analysis**

**Differentiated  
and Risk Mitigated**



**Evolving Regulatory Environment**

**High Unmet Need**

**Favorable external  
landscape**



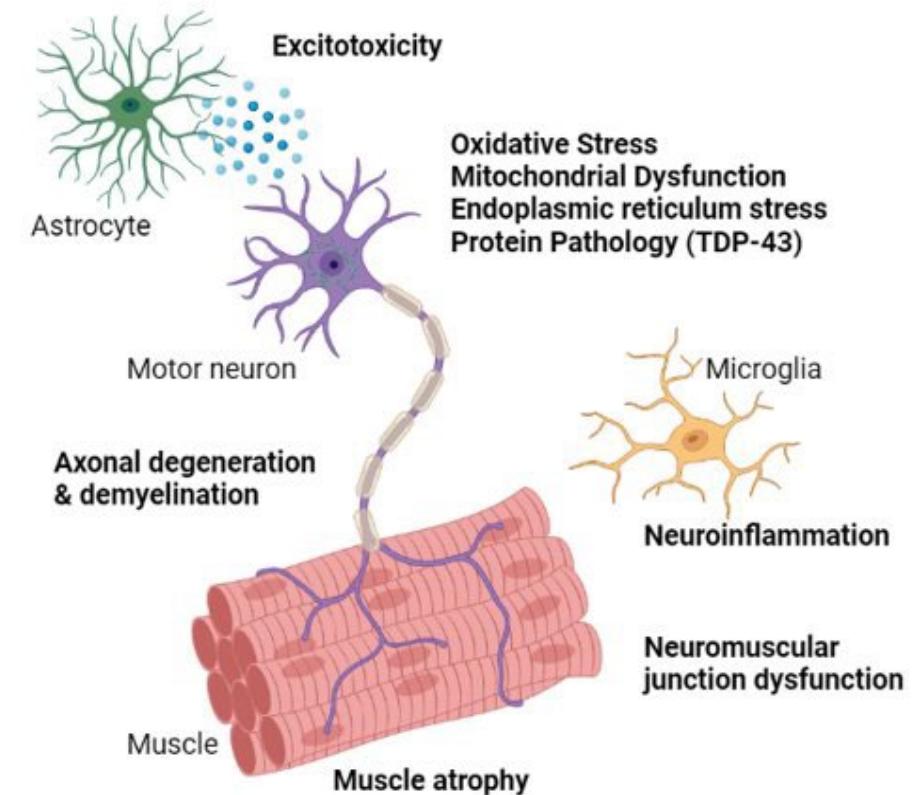
Amyotrophic  
Lateral Sclerosis

ATH-1105



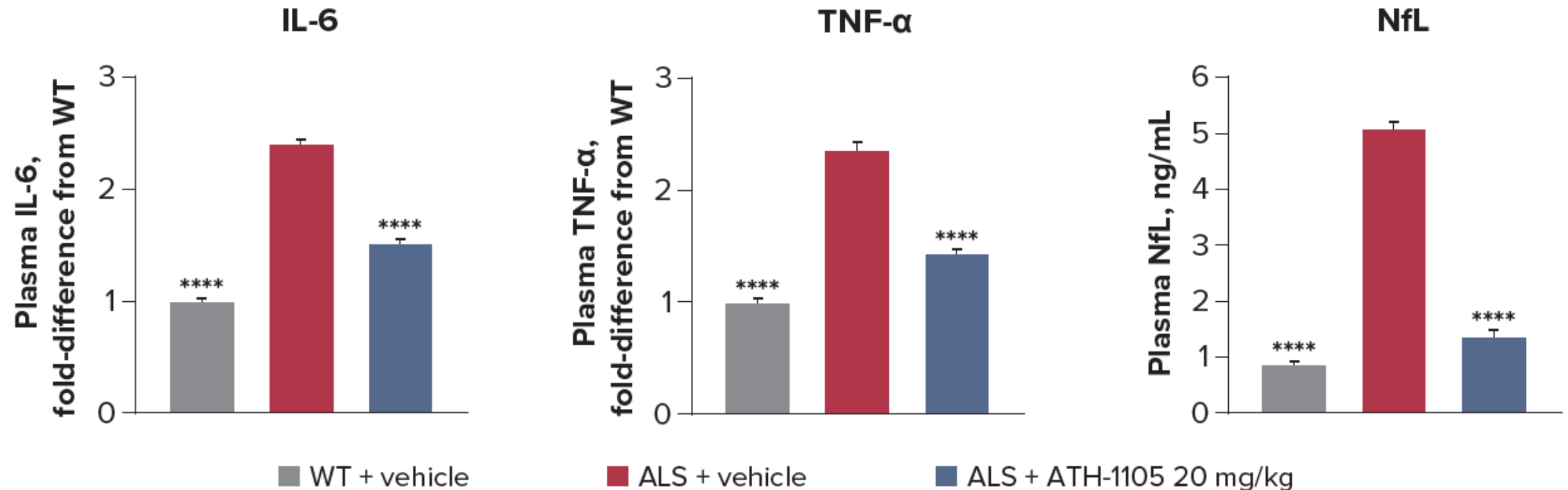
# Positive modulation of HGF/MET as a potential treatment for ALS

- ALS is a devastating progressive neurodegenerative disease
  - Characterized by degradation of motor neurons due to several factors including glutamate excitotoxicity, TDP-43 protein pathology, and systemic inflammation
- Approximately 97% of ALS patients have TDP-43 pathology<sup>1</sup>
  - TDP-43 is a nuclear protein under normal conditions but in ALS forms toxic aggregates in the cytoplasm of motor neurons
  - TDP-43 mouse models have been developed that exhibit TDP-43 pathology and ALS-like symptoms
- Promotion of HGF/MET activity has been reported to have beneficial effects in preclinical models of ALS
  - HGF delays disease progression in ALS animal models<sup>2,3</sup>
  - HGF reduces muscle impairment and motor neuron loss in an ALS mouse model<sup>4</sup>



# Anti-inflammatory and neuroprotective: ATH-1105 reduces markers of inflammation and neurodegeneration

## TDP-43 MOUSE MODEL OF ALS



Data presented as mean ± SEM.

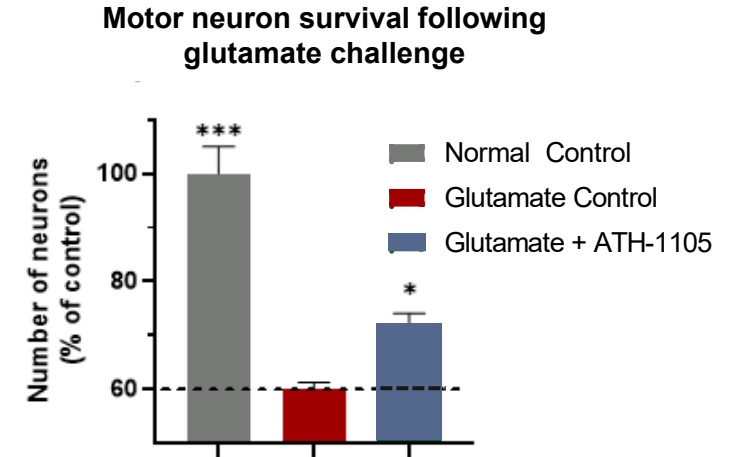
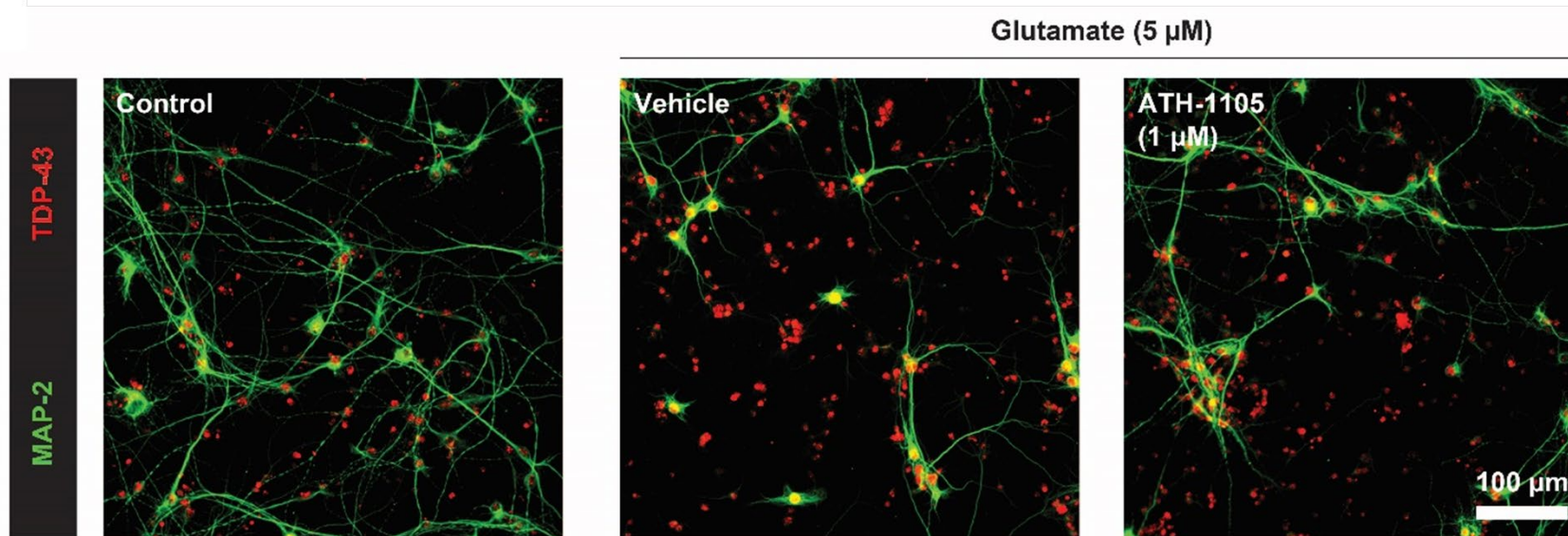
Statistical significance was determined by 1-way ANOVA with Dunnett's test versus ALS + vehicle. \*\*\*\*p < 0.0001.

ALS, amyotrophic lateral sclerosis; IL-6, interleukin 6; NfL, neurofilament light chain; TDP-43, TAR DNA-binding protein 43; TNF-α, tumor necrosis factor alpha; WT, wild-type.

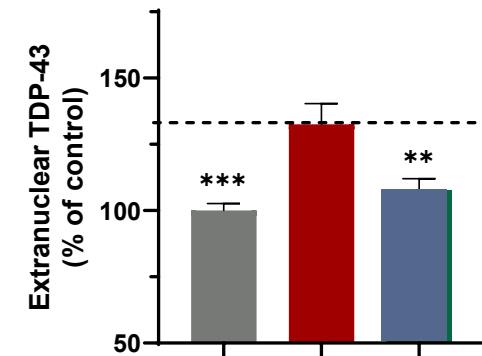


# Neuroprotection and protein pathology: ATH-1105 reduces extranuclear TDP-43 accumulation and enhances neuron survival

## GLUTAMATE CHALLENGE MODEL IN MOTOR NEURON CULTURES



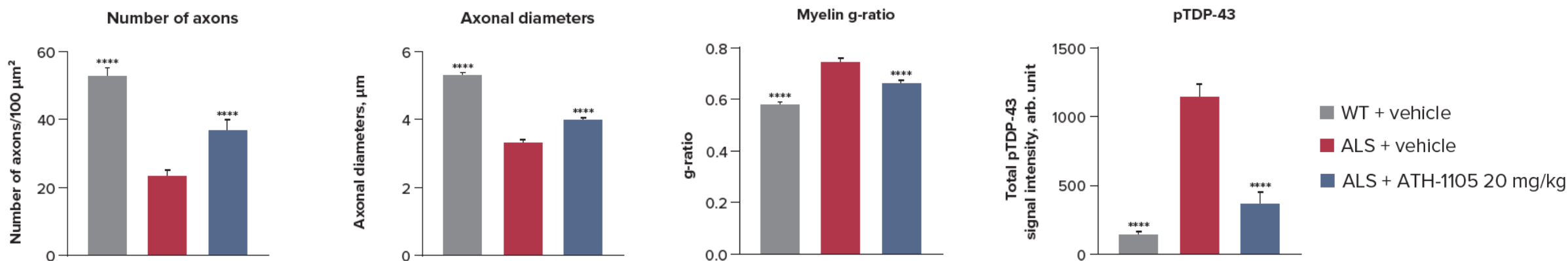
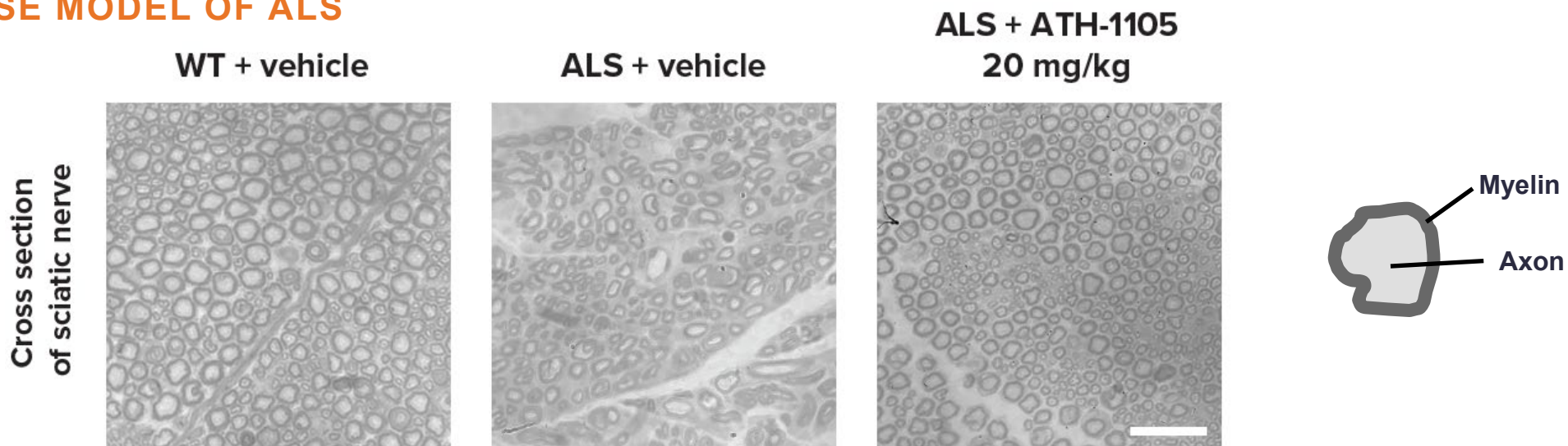
### Glutamate-induced TDP-43 accumulation in spinal motor neurons



Primary rat spinal motor neurons. Cultures treated with vehicle control or 5  $\mu$ M glutamate. Data presented as mean  $\pm$  SEM. Statistics applied: 1-way ANOVA with Fisher least significant difference test. \* $p$  < 0.05, \*\* $p$  < 0.01, \*\*\* $p$  < 0.001 versus Glutamate Control;  $n$  = 6. Scale bar: 100  $\mu$ m, applies to all images. MAP-2, microtubule-associated protein-2; TDP-43, TAR DNA-binding protein 43.

# Neuroprotective: ATH-1105 protects against axon degeneration and demyelination, and reduces pTDP-43

## TDP-43 MOUSE MODEL OF ALS



Graphical representation of the number of axons (per 100  $\mu\text{m}^2$ ), axonal diameter (in micrometers), and mean of myelin g-ratio, defined as the ratio of the inner axonal diameter to the total axonal diameter, following 2 months of treatment. Data presented as mean + SEM. Statistical significance was determined by 1-way ANOVA with Dunnett's test versus ALS + vehicle. \*\*\*\*p < 0.0001.

Scale bar: 10  $\mu\text{m}$ , applies to all images.

ALS, amyotrophic lateral sclerosis; pTDP-43, phosphorylated TDP-43; TDP-43, TAR DNA-binding protein 43; WT, wild-type.

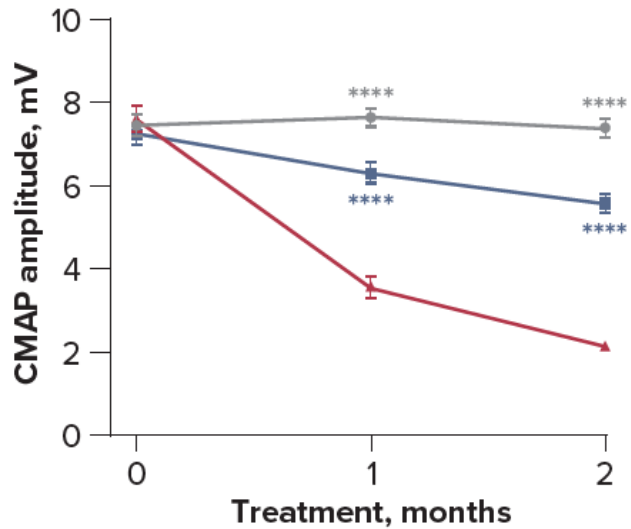


# Function: ATH-1105 improves nerve and motor function

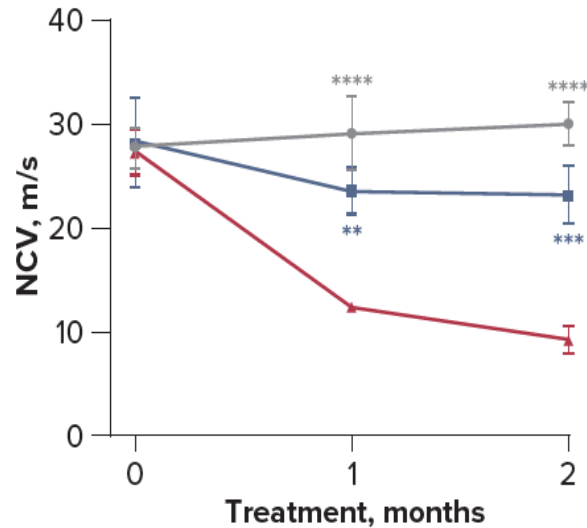
## TDP-43 MOUSE MODEL OF ALS

### Nerve Function

#### CMAP

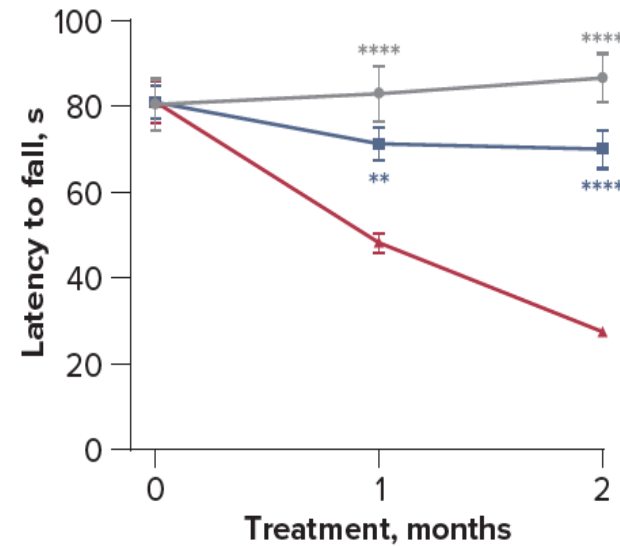


#### NCV

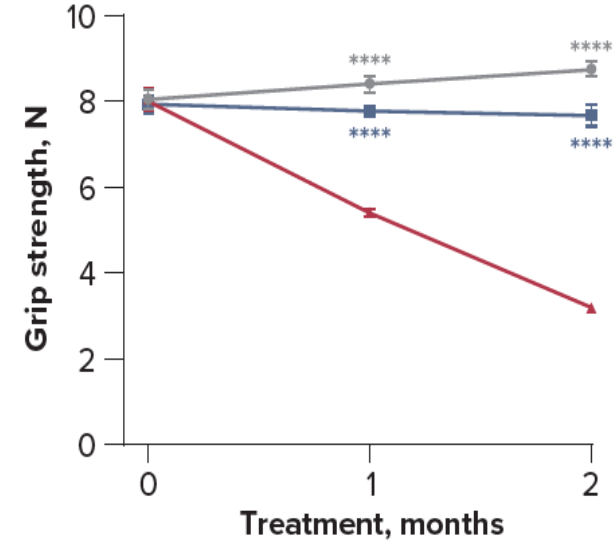


### Motor Function

#### Rotarod



#### Grip test



—●— WT + vehicle

—▲— ALS + vehicle

—■— ALS + ATH-1105 20 mg/kg

Data presented as mean  $\pm$  SEM.

Statistical significance was determined by 2-way ANOVA with Dunnett's test versus ALS + vehicle. \*\*p < 0.01; \*\*\*p < 0.001; \*\*\*\*p < 0.0001. n = 10 mice per group.

ALS, amyotrophic lateral sclerosis; CMAP, compound muscle action potential; NCV, nerve conduction velocity; TDP-43, TAR DNA-binding protein 43; WT, wild-type.

# Survival: ATH-1105 prolongs survival and delays time to first mortality

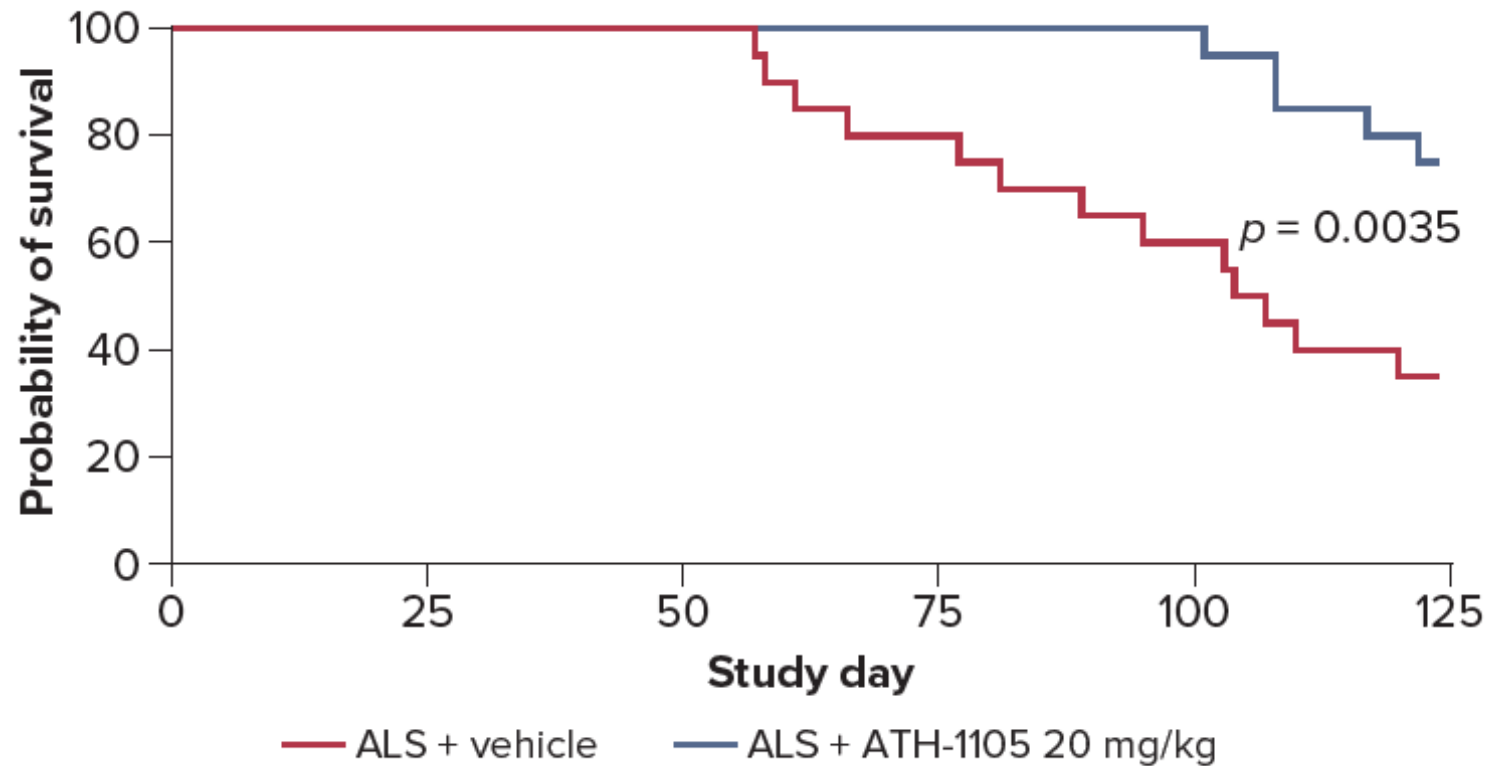
## TDP-43 MOUSE MODEL OF ALS

### Time to first mortality

- Day 57 in ALS + vehicle group
- Day 101 in ALS + ATH-1105 20 mg/kg

### Percent survival at 5 months of age

- 35% in ALS + vehicle group
- 75% in ALS + ATH-1105 20 mg/kg



# ATH-1105 preclinical data summary

## **In the TDP-43 mouse model of ALS, daily oral treatment of ATH-1105 resulted in:**

- Improvement in motor function, and protection against body weight reduction
- Preservation of nerve function and structure
- Reduction of plasma biomarkers of systemic inflammation and neurodegeneration
- Prolonged survival and delayed time to first mortality

These results highlight the therapeutic potential of ATH-1105 in ALS and support further development

# Significant unmet need: Amyotrophic Lateral Sclerosis (ALS)



**~75,000<sup>1</sup>**

People globally affected by ALS with the 40% of those cases in the US



**Only Four<sup>1</sup>**

Approved drugs specifically indicated for the treatment of ALS



**Zero<sup>1</sup>**

ALS drugs targeting neurotrophic factor systems with a multimodal mechanism of action

## Global Market Size for ALS<sup>1</sup>

2019:

**\$197M**

2029 Projected:

**\$781M**

## Drugs in Development<sup>1,2</sup>

Limited differentiated and multifactorial approaches

Tofersen, a late-clinical stage asset, addresses a familial form of ALS accounting for <3% of all cases

## Significant Opportunity for ATH-1105

Limited approved treatment options exist for ALS patients

Multimodal mechanism of action – neuroprotective, anti-inflammatory and potentially disease modifying

Positive modulation of a naturally occurring repair mechanism



Corporate





# Athira management team with significant CNS product development and approval experience

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# Moving forward

- ✓ Independent, unblinded interim analysis of Phase 2/3 LIFT-AD
  - ✓ Focus on 40 mg dose
- 
- ✓ Enrolled 28 patients in exploratory SHAPE trial in PD and dementia with Lewy bodies
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- ✓ Prolonged survival and delayed time to first mortality, and demonstrated consistent improvements in motor function, nerve function, biomarkers and nerve morphology in transgenic mouse model of ALS



Timelines to be updated following End of Phase 2 meeting with FDA



Complete SHAPE and evaluate next steps



Advance ATH-1105 in ALS and target initiating first-in-human Phase 1 trial in 2024

# Well positioned to lead with innovative approach to battling neurodegenerative diseases

**Consistent and correlative preclinical, clinical and biomarker data** showing the potential of fosgonimeton to be neuroprotective, anti-inflammatory and disease modifying in a number of neurodegenerative diseases



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**Mitigated development risk**  
through independent, unblinded interim analysis of Phase 2/3 LIFT-AD trial

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**Evolving regulatory environment and favorable competitive landscape**

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**Strong track record of execution** and leadership team with significant CNS product development and approval experience

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**Strong balance sheet** to support programs through to key inflection points

Thank You

