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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**  
Washington, DC 20549

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**SCHEDULE 14A**  
(Rule 14A-101)  
**PROXY STATEMENT PURSUANT TO SECTION 14(a) OF THE  
SECURITIES EXCHANGE ACT OF 1934**

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- Definitive Proxy Statement
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**Athira Pharma, Inc.**

(Name of Registrant as Specified in its Charter)

(Name of Person(s) Filing Proxy Statement, if other than the Registrant)

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## Corporate Presentation

APRIL 2022

A photograph of a young child and an elderly woman walking together on a path in a forest. The child is pointing upwards, and the woman is smiling and holding the child's hand. The scene is bathed in warm, golden light, suggesting late afternoon or early morning.

ADVANCING NEW THERAPIES FOR NEURONAL HEALTH

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The ACT-AD trial is 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

**Our novel small molecule compounds are designed to act on a naturally occurring mechanism to repair and restore neuronal health**

Potentially pivotal program in Alzheimer's with a growing pipeline to address neurodegenerative and neuropsychiatric indications

## **Late-stage program fosgonimeton (ATH-1017) designed to enhance Hepatocyte Growth Factor (HGF) and its receptor, MET**

- Well established HGF/MET pathway is critical to normal brain function and is compromised in Alzheimer's disease (AD) and other neurological diseases
- Data readout for Phase 2 ACT-AD clinical trial expected by end of 2Q22
- Phase 3 LIFT-AD clinical trial expected to complete enrollment in 3Q22 with data readout expected in 1H23
- Compelling Phase 1 data in AD demonstrated statistically significant improvement ( $p=0.027$ ) of ERP P300 latency, an objective measure of working memory processing speed
- Cognitive improvement in Alzheimer's disease is a multi-billion dollar market opportunity

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### **Strong balance sheet**

to support clinical programs through key inflection points




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### **Leadership team**

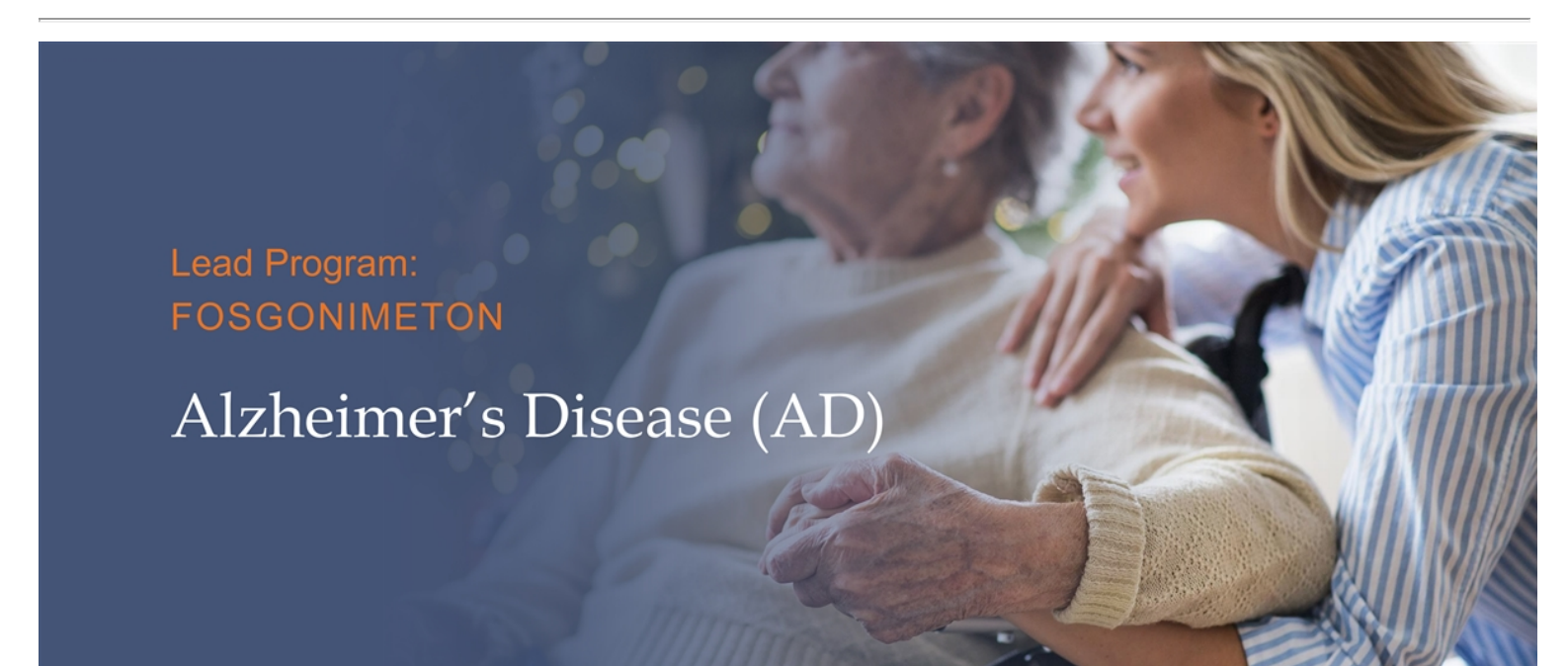
with significant CNS product development and approval experience



# Therapeutic Potential Across a Broad Range of Clinical Applications

Program	Indication		PRECLINICAL	CLINICAL			Status and Anticipated Upcoming Milestones
			Discovery and Development	Phase 1	Phase 2	Phase 3	
Fosgonimeton (subcutaneous)	Alzheimer's Disease		Phase 3 Clinical Trial			Open-Label Extension	LIFT-AD enrollment complete 3Q22; topline data 1H23
			Phase 2 Clinical Trial		Open-Label Extension	ACT-AD topline data by end of 2Q22	
	Parkinson's Disease Dementia and Dementia with Lewy Bodies		Phase 2 Clinical Trial			SHAPE first patient dosed 1Q22	
ATH-1020 (oral)	Neuropsychiatric Indications		Phase 1 Clinical Trial			First subject dosed 1Q22	
ATH-1019 (oral)	Peripheral Indications					Ongoing IND-enabling studies	





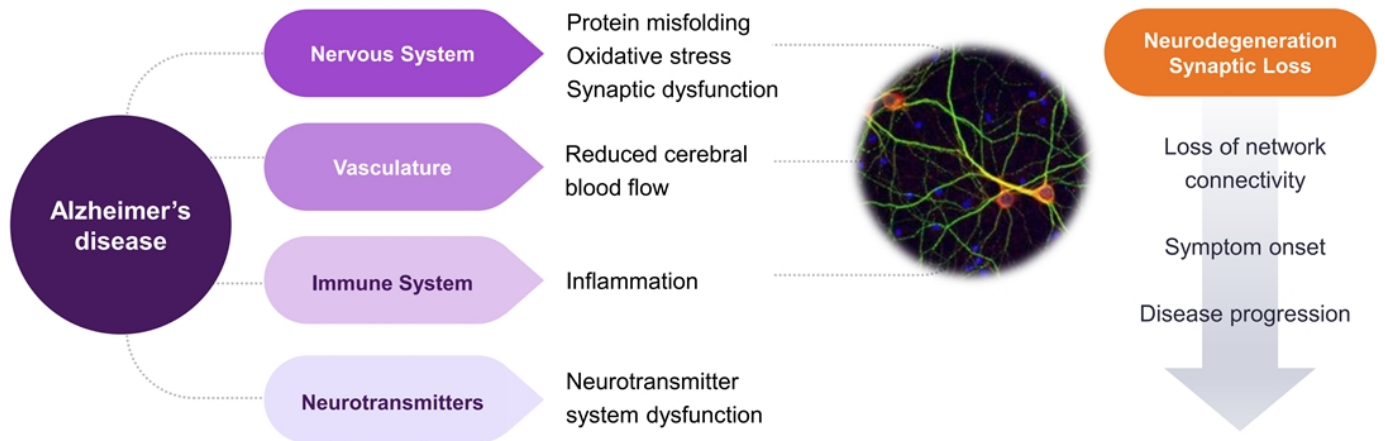
Lead Program:  
FOSGONIMETON

# Alzheimer's Disease (AD)



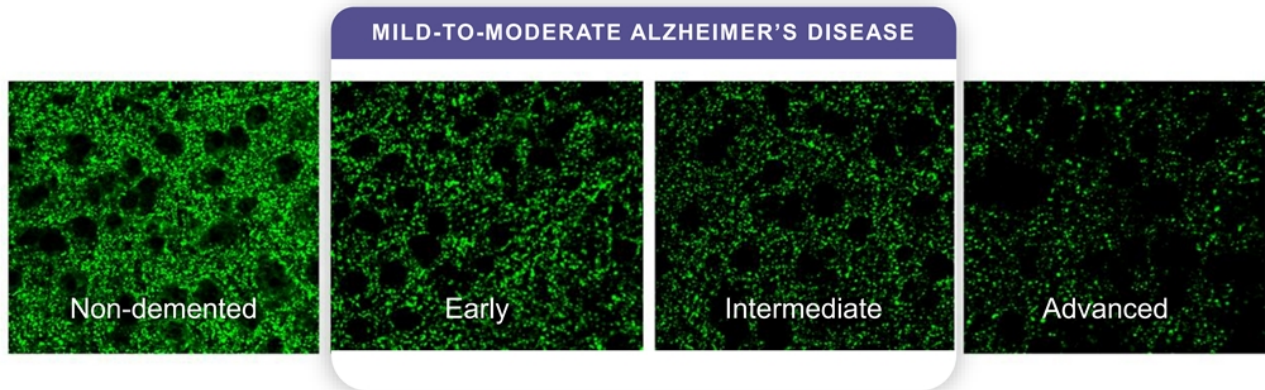
# Alzheimer's Disease Pathology

MULTIFACTORIAL AND COMPLEX PATHOLOGIES ULTIMATELY LEAD TO NEURODEGENERATION



# Synapse Loss in Alzheimer's Disease

- In AD, **25-36% of synapses are lost**<sup>1</sup>
- **Synapse loss is an early event in disease progression** that impacts several brain regions, including the hippocampus and frontal cortex, important for learning and memory<sup>2</sup>





# HGF/MET System is Critical to Normal Brain Function

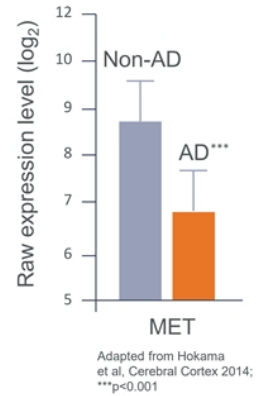
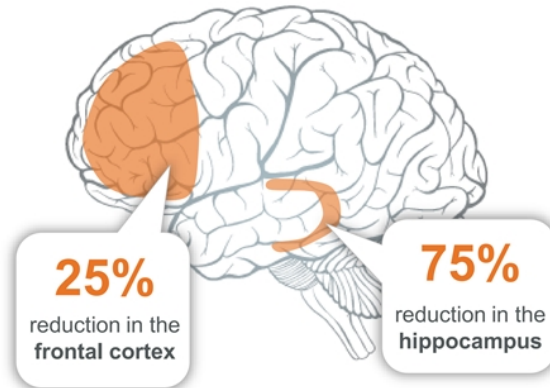
## MET is one of the most stably expressed genes in the adult human brain

Stable MET expression is a signature of the healthy adult brain<sup>1</sup>

Suggests that dysregulation of HGF/MET could be implicated in brain pathologies

MET expression is reduced in the brains of AD patients<sup>2</sup>

## NEURONAL MET EXPRESSION IN ALZHEIMER'S DISEASE



<sup>1</sup> Hawrylycz et al, *Nature Neuroscience* 2015

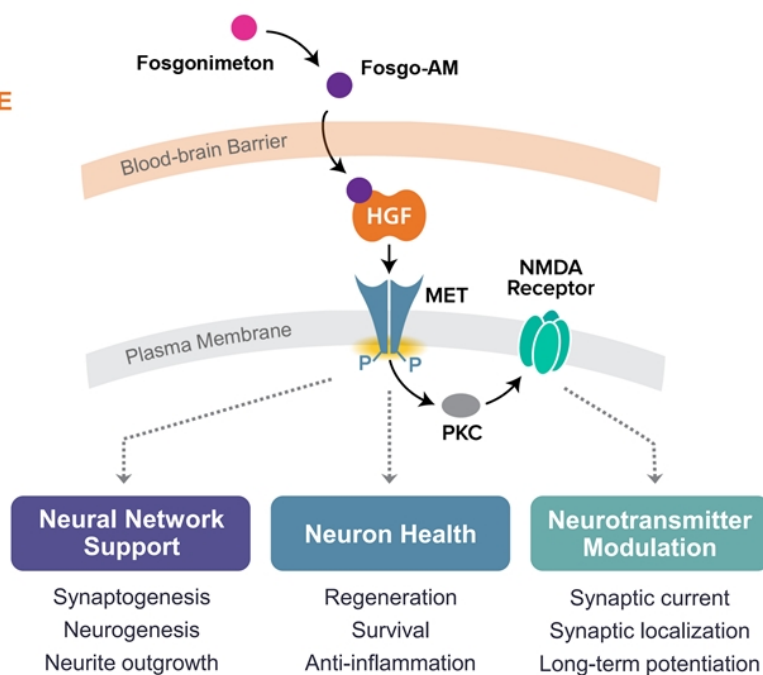
<sup>2</sup> Hamasaki et al, *Neuropathology* 2014

# Fosgonimeton (ATH-1017): A Positive Modulator of the HGF/MET Neurotrophic System

## MULTIMODAL, PROTECTIVE AND REGENERATIVE

### Fosgonimeton:

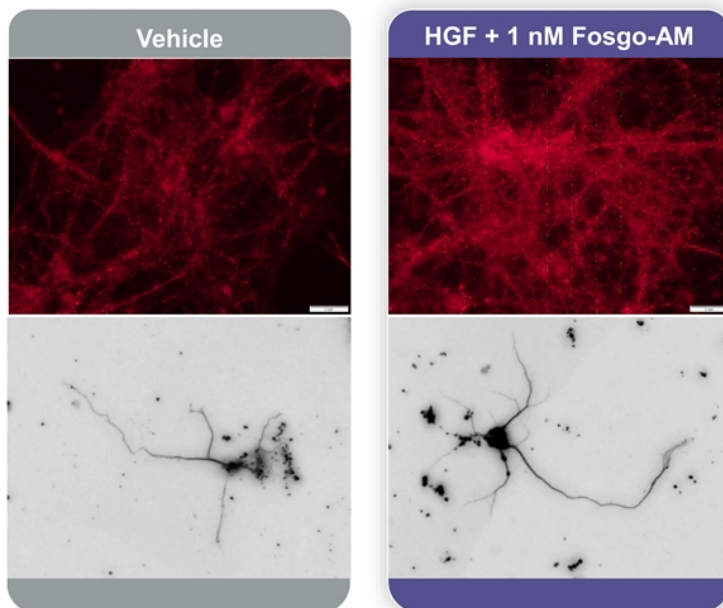
- Small molecule prodrug that is rapidly converted to an active metabolite (Fosgo-AM) in plasma
- Crosses the blood-brain barrier
- Positively modulates HGF/MET
- Administered via subcutaneous injection



HGF/MET signaling and downstream effects described in:  
Desole et al, *Frontiers in Cell and Dev Bio* 2021  
Funakoshi and Nakamura, *Current Signal Transduction Therapy* 2011

# Fosgo-AM Enhances Synaptogenesis and Neurite Outgrowth

## PRECLINICAL DATA IN PRIMARY RAT HIPPOCAMPAL NEURONS



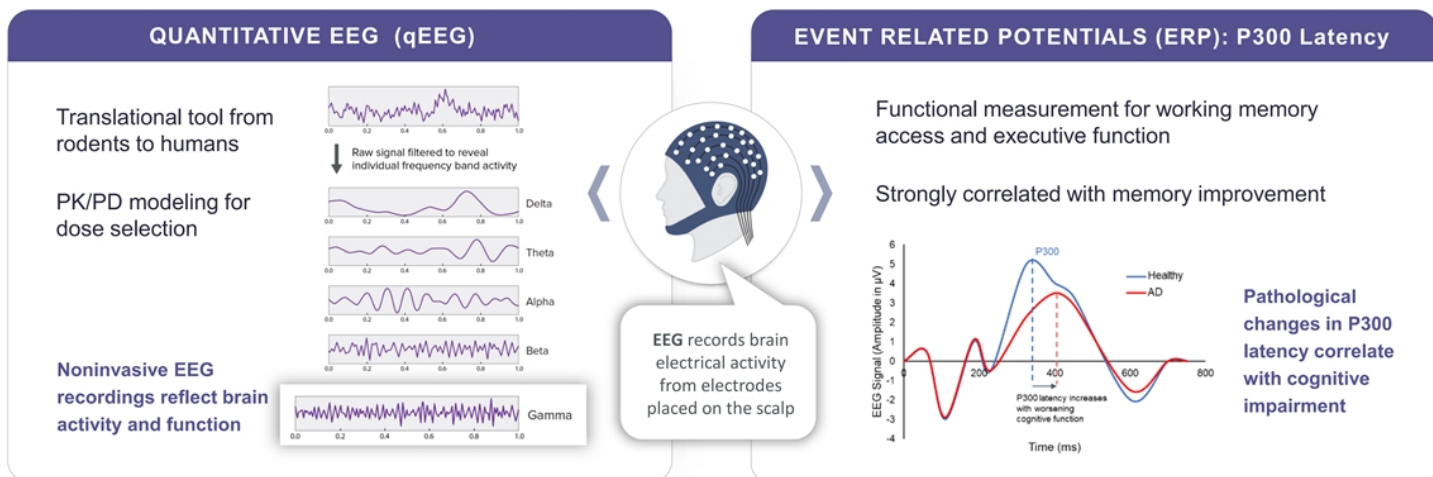
**Synaptic count** (number of synapses) and **synaptic strength** (relative abundance of presynaptic vesicles per synapse) were both significantly enhanced with fosgo-AM

**Neurite outgrowth** was significantly improved following treatment with fosgo-AM



Scale bars, 2mm  
HGF, hepatocyte growth factor  
HGF alone was also assessed and did not show statistically significant effects on synaptogenesis and neurite outgrowth

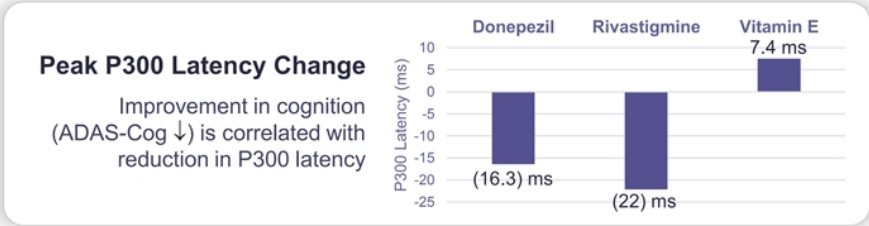
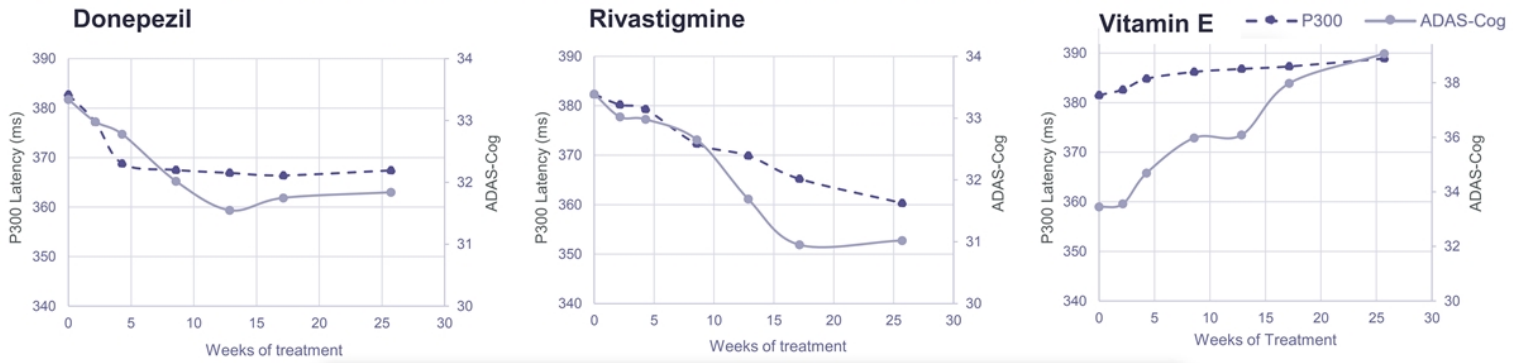
# Clinical Development Strategy Includes Measures Strongly Correlated with Cognition



Approved therapies have demonstrated parallel improvement in P300 latency and cognition

# Changes in P300 Latency Correlate with Cognitive Outcomes with Treatment of Approved Therapies in AD Subjects

## PREVIOUSLY PUBLISHED RESULTS SUPPORT THE CORRELATION OF P300 LATENCY AND COGNITION



Adapted from Thomas et al, *Clin Neuropharmacology* 2001



# Fosgonimeton Treatment Improved P300 Latency in AD Subjects – CTAD 2019

## PHASE 1B – AD SUBJECTS

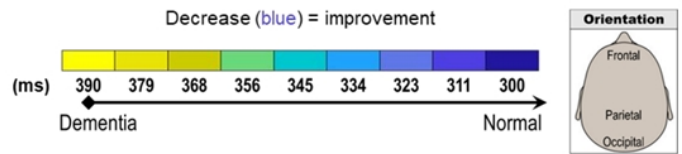
N=11

Randomized, Placebo, Fosgonimeton (40 mg)  
Subcutaneous, Daily, 8 days

### ERP OBSERVATIONS

ERP analysis to-date suggests treatment effects on P300 latency

- Gradual decrease in latency over time in the treated group (N=7)
- Short-term, rapid improvements are indicative of neurotransmitter, NMDA receptor modulation
- Lasting effects may be indicative of connectivity and structural improvements



Treatment	P300 Latency (ms)								
	Baseline	Day 1		Day 4			Day 8		
		Hour 1	Hour 3	Pre-dose	Hour 1	Hour 3	Pre-dose	Hour 1	Hour 3
<b>40 mg Fosgonimeton (n=7)</b>									

Decreased latency on pre-dose recordings (arrows) taken 24 hours after the last dose on the previous day may be indicative of sustained improvement

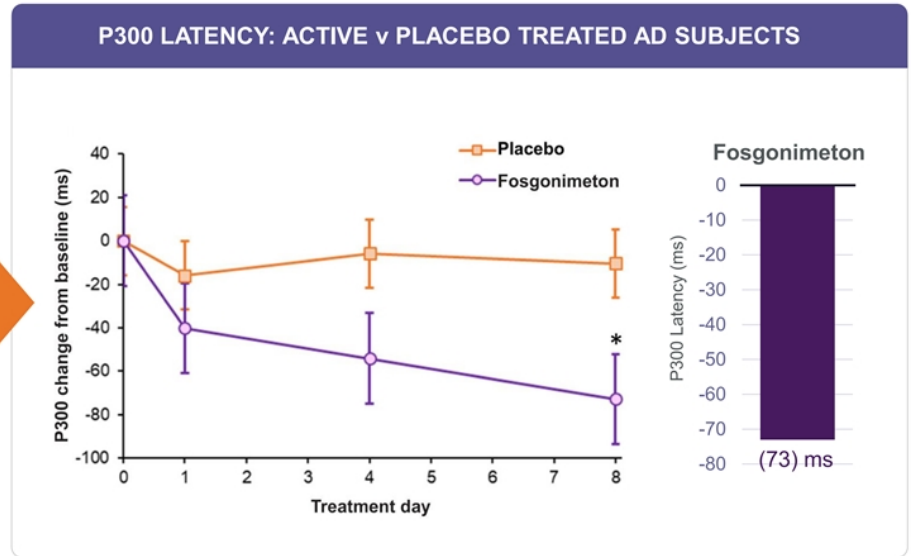
# Fosgonimeton Treatment Improved P300 Latency in AD Subjects – CTAD 2019

## PHASE 1B – AD SUBJECTS

- Group averages of AD subjects receiving fosgonimeton (N=7) demonstrate decreased P300 latency over time

*Significant change from baseline observed on Day 8*

- AD subjects receiving placebo (N=4) had no consistent P300 latency change from baseline to study end



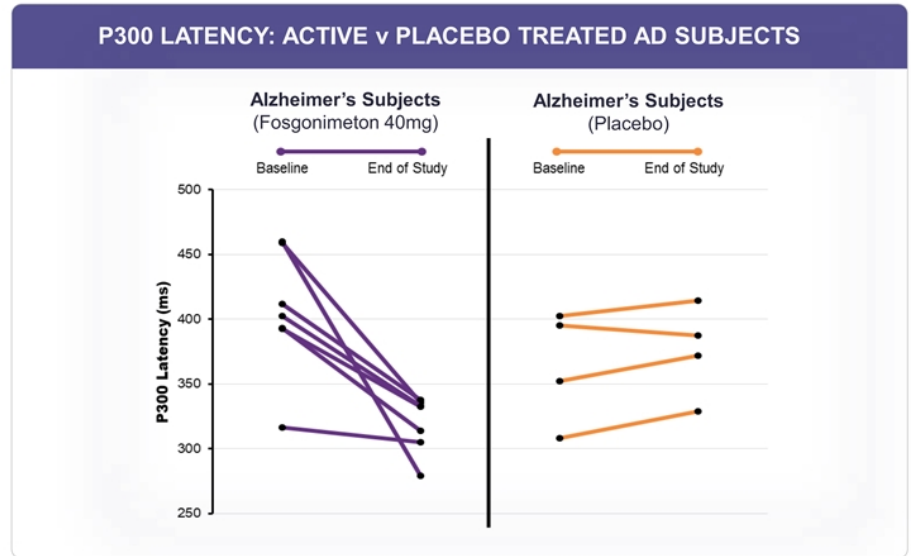
Note: P300 data from FZ, CZ, and PZ electrodes. Data plotted as mean +/- SE. \*p=0.027 with MMRM.

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# Fosgonimeton Treatment Improved P300 Latency in AD Subjects – CTAD 2019

## PHASE 1B – AD SUBJECTS

- Every AD subject receiving fosgonimeton had a level of improvement in P300 latency
- AD subjects receiving placebo had no consistent response from baseline to end of study



Note: P300 data from FZ, CZ, and PZ electrodes.

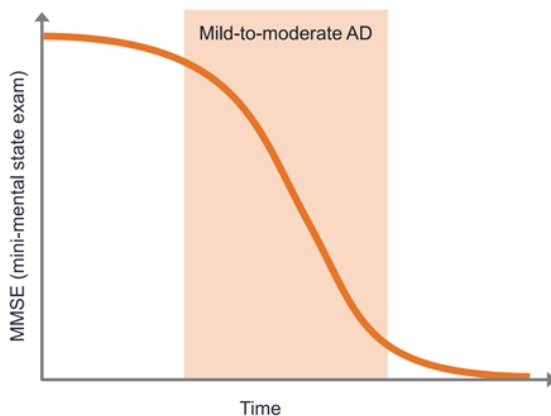
# Why Mild-to-Moderate AD Instead of Pre-Dementia?

## Medical need:

The point of most accelerated disease progression<sup>1,2</sup>

Currently marketed drugs in mild-to-moderate space have only modest effects<sup>3</sup>

Higher financial burden than pre-dementia<sup>4</sup>



## Reduced development risk:

Clinical, syndromal diagnosis is possible<sup>5</sup>

Increased likelihood of tangible placebo decline

Established regulatory path (AChEIs, memantine)



1. Ower et al, *Eur J Epidemiol* 2018  
2. Caroli et al, *Neurobiol Aging* 2010  
3. Fink et al, *Ann Intern Med* 2020

4. Cerejeira et al, *Front Neurol* 2012  
5. de Aquino et al, *Front Neurol* 2021

# Fosgonimeton Phase 2 Trial (ACT-AD)



## PROOF-OF-CONCEPT TRIAL TO HELP BETTER UNDERSTAND NATURE OF NOVEL INTERVENTION

POPULATION	TREATMENT DURATION	ENDPOINTS AND TIMELINE
<p><b>ACT-AD: N=77 (recruitment complete)</b>  <b>mild-to-moderate AD dementia subjects</b>                      (55-85 years; CDR 1 and 2; MMSE 14-24 incl.)</p> <p><b>Potential Pathways to success:</b></p> <ul style="list-style-type: none"> <li>• Achieves statistical significance on primary endpoint</li> <li>• Key secondary endpoints trending</li> <li>• Functions as interim analysis for LIFT-AD without statistical penalty</li> </ul>	<p>26-week randomized, double-blind treatment, + optional 26-week OLEX</p> <p>Fosgonimeton (40 mg)</p> <p>Fosgonimeton (70 mg)</p> <p>Placebo</p> <p>Randomization (1:1:1)</p>	<p><b>PRIMARY ENDPOINT</b></p> <ul style="list-style-type: none"> <li>• Change of P300 latency</li> <li>• Safety</li> </ul> <p><b>SECONDARY ENDPOINTS</b></p> <ul style="list-style-type: none"> <li>• Cognition: ADAS-Cog11</li> <li>• Global clinical change: ADCS CGIC - Clinician</li> <li>• Function: ADCS-ADL23</li> </ul> <p><b>TIMELINE</b></p> <ul style="list-style-type: none"> <li>• Data readout expected by end of 2Q22</li> </ul>





# Fosgonimeton Phase 3 Trial (LIFT-AD)



**TRIAL MAY PROVIDE PIVOTAL EVIDENCE TO SUPPORT PRODUCT REGISTRATION**

POPULATION	TREATMENT DURATION	ENDPOINTS AND TIMELINE
<p><b>LIFT-AD: Target N=~420</b>  <b>mild-to-moderate AD dementia subjects</b>                      (55-85 years; CDR 1 and 2; MMSE 14-24 incl.)</p> <p><b>Potential Pathways to success:</b></p> <ul style="list-style-type: none"> <li>• Achieves statistical significance on primary endpoint</li> <li>• Achieves statistical significance on two key secondary endpoints, which may support approval with a single pivotal study</li> </ul>	<div style="text-align: center;"> <p>26-week randomized, double-blind treatment, + optional 26-week OLEX</p> <p>Fosgonimeton (40 mg)</p> <p>Fosgonimeton (70 mg)</p> <p>Placebo</p> <p>Randomization (1:1:1)</p> </div>	<p><b>PRIMARY ENDPOINT</b></p> <ul style="list-style-type: none"> <li>• Global Statistical Test (GST) – unbiased composite, fed by data from two key secondaries</li> <li>• Safety</li> </ul> <p><b>SECONDARY ENDPOINTS</b></p> <ul style="list-style-type: none"> <li>• Cognition: ADAS-Cog11</li> <li>• Global clinical change: ADCS CGIC - Clinician</li> <li>• Function: ADCS-ADL23</li> </ul> <p><b>TIMELINE</b></p> <ul style="list-style-type: none"> <li>• Complete enrollment expected 3Q22</li> <li>• Data readout expected 1H23</li> </ul>



# Fosgonimeton – Potential First-Line Therapy to Improve Cognition



**35 million**

Estimated Alzheimer's cases worldwide<sup>1</sup>



**Multi-Billion \$ Market**

Despite generic entries



**Only One**

New product (Aduhelm™) launched since 2003

**Over 100 million globally by 2050**

~900,000 new patients diagnosed annually in the US alone<sup>1,2</sup>

**6.2 million treatment eligible patients in the US in 2021 based on prevalence data**

Growing at 3% per year<sup>2,3</sup>

**Mild to Moderate comprises 81% of all patients with Alzheimer's Disease**

78.5% of these patients receive Rx therapies<sup>3,4</sup>

**Significant opportunity for fosgonimeton**

Market research suggests favorable reaction and receptivity to fosgonimeton base case target product profile as a potential first-line therapy to improve cognition<sup>5</sup>

<sup>1</sup> <https://www.who.int/news-room/fact-sheets/detail/dementia>

<sup>2</sup> <https://www.alz.org/media/documents/alzheimers-facts-and-figures.pdf>

<sup>3</sup> GlobalData AD prevalence data access and analysis

<sup>4</sup> <https://www.nia.nih.gov/news/half-alzheimers-disease-cases-may-be-mild>

<sup>5</sup> ClearView Healthcare Partners Market Research Analysis

FOSGONIMETON

Parkinson's Disease  
Dementia (PDD) and  
Dementia with Lewy  
Bodies (DLB)



# Phase 2 Trial in PDD and DLB



## PROOF-OF-CONCEPT TRIAL TO UNDERSTAND THE POTENTIAL OF FOSGONIMETON BEYOND ALZHEIMER'S DISEASE

POPULATION	TREATMENT DURATION	ENDPOINTS AND TIMELINE
<p><b>N=~75 mild-to-moderate PDD or DLB subjects</b> (MOCA 11-23 at baseline)</p> <p><b>Potential Pathways to success:</b></p> <ul style="list-style-type: none"> <li>• Achieves statistical significance on primary endpoint</li> <li>• Shows trends on either cognition and/or motor function</li> </ul>	<p style="text-align: center;">26-week randomized, double-blind treatment</p> <p style="text-align: center;">↓</p> <p style="text-align: center;">Fosgonimeton (40 mg)</p> <p style="text-align: center;">Fosgonimeton (70 mg)</p> <p style="text-align: center;">Placebo</p> <p style="text-align: center;">Randomization (1:1:1)</p>	<p><b>PRIMARY ENDPOINT</b></p> <ul style="list-style-type: none"> <li>• Global Statistical Test (combining P300 and ADAS-Cog13)</li> <li>• Safety</li> </ul> <p><b>SECONDARY ENDPOINTS</b></p> <ul style="list-style-type: none"> <li>• P300 Latency</li> <li>• Cognition: ADAS-Cog13</li> <li>• Global clinical change: ADCS CGIC - Clinician</li> <li>• Function: ADCS-ADL23</li> <li>• Motor Function: MDS-UPDRS (Exploratory)</li> </ul> <p><b>TIMELINE</b></p> <ul style="list-style-type: none"> <li>• First patient dosed 1Q22</li> <li>• Actively enrolling</li> </ul>



# PDD and DLB – Critical Unmet Need and Significant Opportunity



## Nearly 1 million

people in the US and more than 10 million people globally are living with Parkinson's disease (PD)<sup>1</sup>



## ~50%

of PD patients experience dementia symptoms<sup>2,4</sup>



## Only One

treatment option for dementia symptoms of PD<sup>1,3</sup>

## DLB is the third most common cause of dementia

accounting for 5-15% of all dementia cases globally<sup>2,4</sup>

**PDD and DLB are both types of Lewy body disorder,** differentiated by onset of dementia symptoms relative to PD diagnosis<sup>3</sup>

### TYPES OF LEWY BODY DISORDER



## \$51.9B

Economic burden of PD overall in the US, as of 2017<sup>4</sup>

## Significant opportunity for fosgonimeton

Initial market research suggests fosgonimeton base case target product profile has the potential to address an overlooked and underserved PDD and DLB patient population<sup>5</sup>



<sup>1</sup> <https://www.parkinson.org/Understanding-Parkinsons>

<sup>2</sup> <https://www.alz.org/alzheimers-dementia/what-is-dementia/types-of-dementia>

<sup>3</sup> Galasko, *Neurol Clin* 2017

<sup>4</sup> Yang et al, *NPJ Parkinsons Dis* 2020

<sup>5</sup> ClearView Healthcare Partners Market Research Analysis



# Fosgonimeton Program Summary

## CHANGING THE TREATMENT PARADIGM TO RESTORE NEURONAL HEALTH

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Based on strong science using novel approach to leverage naturally occurring repair mechanism

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Compelling data in Alzheimer's patients suggesting improved neuronal connectivity

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LIFT-AD – a potentially pivotal program, informed by ACT-AD Phase 2 trial

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Opportunity to expand into additional indications including PDD and DLB

*SHAPE Phase 2 trial –first patient dosed 1Q22*



### Significant market potential

- **Over 2.5 million** mild-to-moderate AD patients in the US being treated with therapies with continued unmet need
- PDD, DLB and other dementias represent additional large market opportunities
- Complementary not competitive with current and potentially future therapies

**Nearing key anticipated value inflection points:**



Data by end of 2Q22



LPI 3Q22  
Data 1H23

ATH-1020

# Neuropsychiatric Indications



# ATH-1020 – Addressing Neuronal Connectivity

## PHYSIOLOGICAL CHANGES IN THE BRAIN AFFECT BEHAVIOR AND EMOTION

Our novel approach is focused on restoring neuronal health and function to repair disruptions in neuronal connectivity found in a variety of neuropsychiatric diseases

- Preclinical data demonstrate **enhancing HGF/MET activity has anti-depressant and anxiolytic effects**<sup>1,2</sup>
- Human clinical trials also show an association between **reduced HGF/MET expression levels and depression/anxiety and schizophrenia**<sup>3-7</sup>
- **ATH-1020**
  - A brain-penetrant small molecule positive modulator of HGF/MET
  - Demonstrated improvements in depression and schizophrenia in preclinical animal models
  - Convenient once-daily oral dosing

*Phase 1 first in-human studies launched, first subject dosed 1Q22*



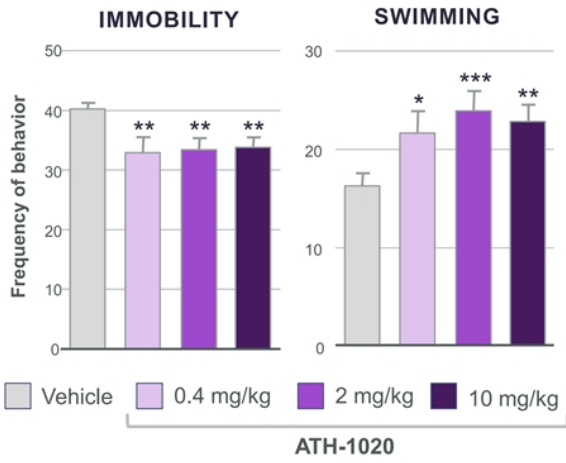
<sup>1</sup> Isogawa et al, *Neuropsychobiology* 2005  
<sup>2</sup> Wakatsuki et al, *Neuropeptides* 2007  
<sup>3</sup> Russo, *Biomarker Insights* 2010

<sup>4</sup> Ciuculete et al, *Epigenetics* 2019  
<sup>5</sup> Ramsey et al, *PLoS ONE* 2016  
<sup>6</sup> Russo, *Proteomic Insights* 2010  
<sup>7</sup> Burdick et al, *AM J Psychiatry* 2010

# Preclinical Studies Demonstrate Improvement in Rodent Models of Depression and Schizophrenia

MMN Response is Translatable from Rodent Models to Human Clinical Schizophrenia

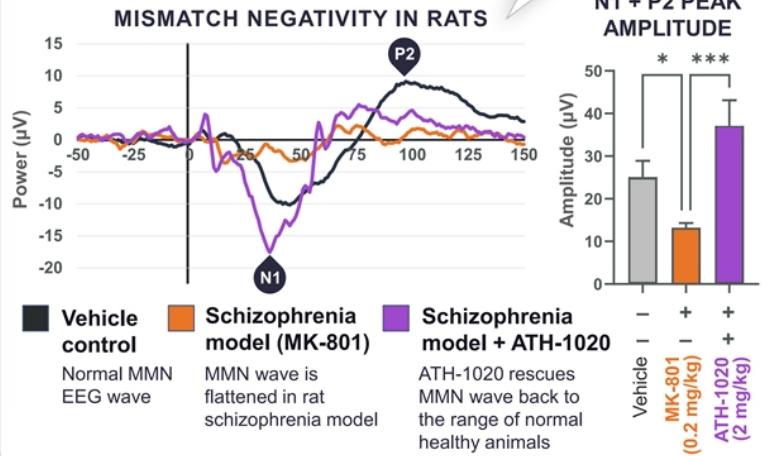
## Reduction of Depression-related Behaviors in the Rodent Forced-Swim Test Model



Two-way ANOVA with Dunnett's multiple comparisons vs vehicle were conducted. \*P<0.05, \*\*P<0.01, \*\*\*P<0.001.



## ATH-1020 Rescues the MMN Deficit Seen in the Rat MK-801 Schizophrenia Model



One-way ANOVA with Dunnett's multiple comparisons post test vs MK-801 were conducted. \*P<0.05, \*\*\*P<0.001.

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# Market Opportunity: Neuropsychiatric Indications

## Depression

**3.8%** Worldwide population affected by depression<sup>1</sup>

**~280 million**

people of all ages suffered from depression, globally<sup>1</sup>

**13.1 million**

U.S. adults aged 18 or older had at least one major depressive episode with severe impairment in the past year<sup>2</sup>

## Global Market Size for Depression<sup>3</sup>

2021:	2028 Projected:
<b>\$11.9B</b>	<b>\$15.4B</b>

## Global Market Size for Schizophrenia<sup>4</sup>

2018:	2026 Projected:
<b>\$6.75B</b>	<b>\$9.48B</b>

## Schizophrenia

**~20 million**

people across the globe are affected with schizophrenia<sup>1</sup>

**~1.2%**

of Americans (3.2 million) have the disorder<sup>5</sup>



<sup>1</sup> World Health Organization Data Fact Sheets

<sup>2</sup> <https://www.nimh.nih.gov/health/statistics/major-depression>

<sup>3</sup> Coherent Market Insights – Depression

<sup>4</sup> Fortune Business Insights – Schizophrenia

<sup>5</sup> <https://www.mentalhelp.net/schizophrenia/statistics/>

# Corporate





# Athira Management Team with Significant CNS Product Development and Approval Experience

## EXECUTIVE LEADERSHIP



**Mark Litton, PhD**  
President and CEO



**Rachel Lenington**  
COO



**Hans Moebius, MD, PhD**  
CMO



**Kevin Church, PhD**  
Executive Vice President,  
Research



**Glenna Mileson**  
CFO



**Mark Worthington, JD**  
General Counsel

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# Achievements and Upcoming Milestones

## RECENT ACHIEVEMENTS

- ✓ Enrollment completed for Phase 2 ACT-AD trial in Oct 2021
- ✓ Strong enrollment to-date in the Phase 3 LIFT-AD trial
- ✓ Open label extension trial underway for ACT-AD and LIFT-AD
- ✓ First patient dosed in Phase 2 SHAPE trial 1Q22
- ✓ First subject dosed with first oral molecule, ATH-1020, in Phase 1 trial as a potential treatment candidate for neuropsychiatric indications in 1Q22
- ✓ Continued to strengthen IP portfolio including issuance of fosgonimeton (ATH-1017) US patent
- ✓ Strong balance sheet – cash of \$319.7M as of 12/31/21 and no debt



## LOOKING AHEAD

- **Phase 2 ACT-AD Trial:** Data readout expected by end of 2Q22
- **Phase 3 LIFT-AD Trial:** Complete enrollment expected in 3Q22; Data readout expected 1H23
- **SHAPE** enrollment ongoing
- Ongoing IND-enabling studies of ATH-1019 in peripheral indications

Thank You

