



## ASX ANNOUNCEMENT

### Actinogen CEO presentation to Bell Potter Healthcare Conference

**Sydney, 09 November 2022.** Actinogen Medical ASX: ACW (“ACW” or “the Company”) is pleased to announce that CEO and Managing Director Dr Steven Gourlay will present to the Bell Potter *Healthcare Conference* this afternoon.

Dr Gourlay will provide an overview of Actinogen and focus on the Company’s recent positive Phase 2a data from its Alzheimer’s Disease (AD) biomarker study that showed a strong clinical effect from its lead compound Xanamem® and a major validation of the ‘cortisol hypothesis’ for AD.

He will also outline how the Company is rapidly moving forward into its upcoming Phase 2 trials in Depression and Alzheimer’s Disease.

A copy of Dr Gourlay’s presentation slides is attached.

ENDS

#### Investors

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***Announcement authorised by the Board of Directors of Actinogen Medical***

#### About Actinogen Medical

Actinogen Medical (ACW) is an ASX-listed, biotechnology company developing a novel therapy for neurological and neuropsychiatric diseases associated with dysregulated brain cortisol. There is a strong association between cortisol and detrimental changes in the brain, affecting cognitive function, harm to brain cells and long-term cognitive health.

Cognitive function means how a person understands, remembers and thinks clearly. Cognitive functions include memory, attention, reasoning, awareness and decision-making.

® Xanamem is a registered trademark of Actinogen Medical Limited

Actinogen is currently developing its lead compound, Xanamem,<sup>®</sup> as a promising new therapy for Alzheimer's Disease and Depression and hopes to study Fragile X Syndrome and other neurological and psychiatric diseases in the future. Reducing cortisol inside brain cells could have a positive impact in these and many other diseases. The cognitive dysfunction, behavioural abnormalities, and neuropsychological burden associated with these conditions is debilitating for patients, and there is a substantial unmet medical need for new and improved treatments.

### About Xanamem

Xanamem's novel mechanism of action is to block the production of cortisol inside cells through the inhibition of the 11 $\beta$ -HSD1 enzyme in the brain. Xanamem is designed to get into the brain after it is absorbed in the intestines upon swallowing its capsule.

Chronically elevated cortisol is associated with cognitive decline in Alzheimer's Disease, and Xanamem has shown the ability to enhance cognition in healthy, older volunteers. Cognitive impairment is also a feature in Depression and many other diseases. Cortisol itself is also associated with depressive symptoms and when targeted via other mechanisms has shown some promise in prior clinical trials.

The Company has studied 11 $\beta$ -HSD1 inhibition by Xanamem in more than 300 volunteers and patients, so far finding a statistically significant improvement in working memory and attention, compared with placebo, in healthy, older volunteers in two consecutive trials and clinically significant improvements in patients with biomarker-positive mild AD. Previously, high levels of target engagement in the brain with doses as low as 5 mg daily have been demonstrated in a human PET imaging study. A series of Phase 2 studies in multiple diseases is being conducted to further confirm and characterize Xanamem's therapeutic potential.

Xanamem is an investigational product and is not approved for use outside of a clinical trial by the FDA or by any global regulatory authority. Xanamem<sup>®</sup> is a trademark of Actinogen Medical.

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This announcement and attachments may contain certain "forward-looking statements" that are not historical facts; are based on subjective estimates, assumptions and qualifications; and relate to circumstances and events that have not taken place and may not take place. Such forward looking statements should be considered "at-risk statements" - not to be relied upon as they are subject to known and unknown risks, uncertainties and other factors (such as significant business, economic and competitive uncertainties / contingencies and regulatory and clinical development risks, future outcomes and uncertainties) that may lead to actual results being materially different from any forward looking statement or the performance expressed or implied by such forward looking statements. You are cautioned not to place undue reliance on these forward-looking statements that speak only as of the date hereof. Actinogen Medical does not undertake any obligation to revise such statements to reflect events or any change in circumstances arising after the date hereof, or to reflect the occurrence of or non-occurrence of any future events. Past performance is not a reliable indicator of future performance. Actinogen Medical does not make any guarantee, representation or warranty as to the likelihood of achievement or reasonableness of any forward-looking statements and there can be no assurance or guarantee that any forward-looking statements will be realised.

**ACTINOGEN MEDICAL ENCOURAGES ALL CURRENT INVESTORS TO GO PAPERLESS BY REGISTERING THEIR DETAILS WITH THE DESIGNATED REGISTRY SERVICE PROVIDER, AUTOMIC GROUP.**

<sup>®</sup> Xanamem is a registered trademark of Actinogen Medical Limited



# **New Alzheimer's Disease study validates Xanamem<sup>®</sup> activity & program**

## **Positive Phase 2a clinical data with large CDR-SB effect size**

**Dr. Steven Gourlay MBBS PhD MBA, CEO & MD**

**Bell Potter Healthcare Conference, 09 November 2022**

**Authorised by the Board of Directors of Actinogen Medical Limited**

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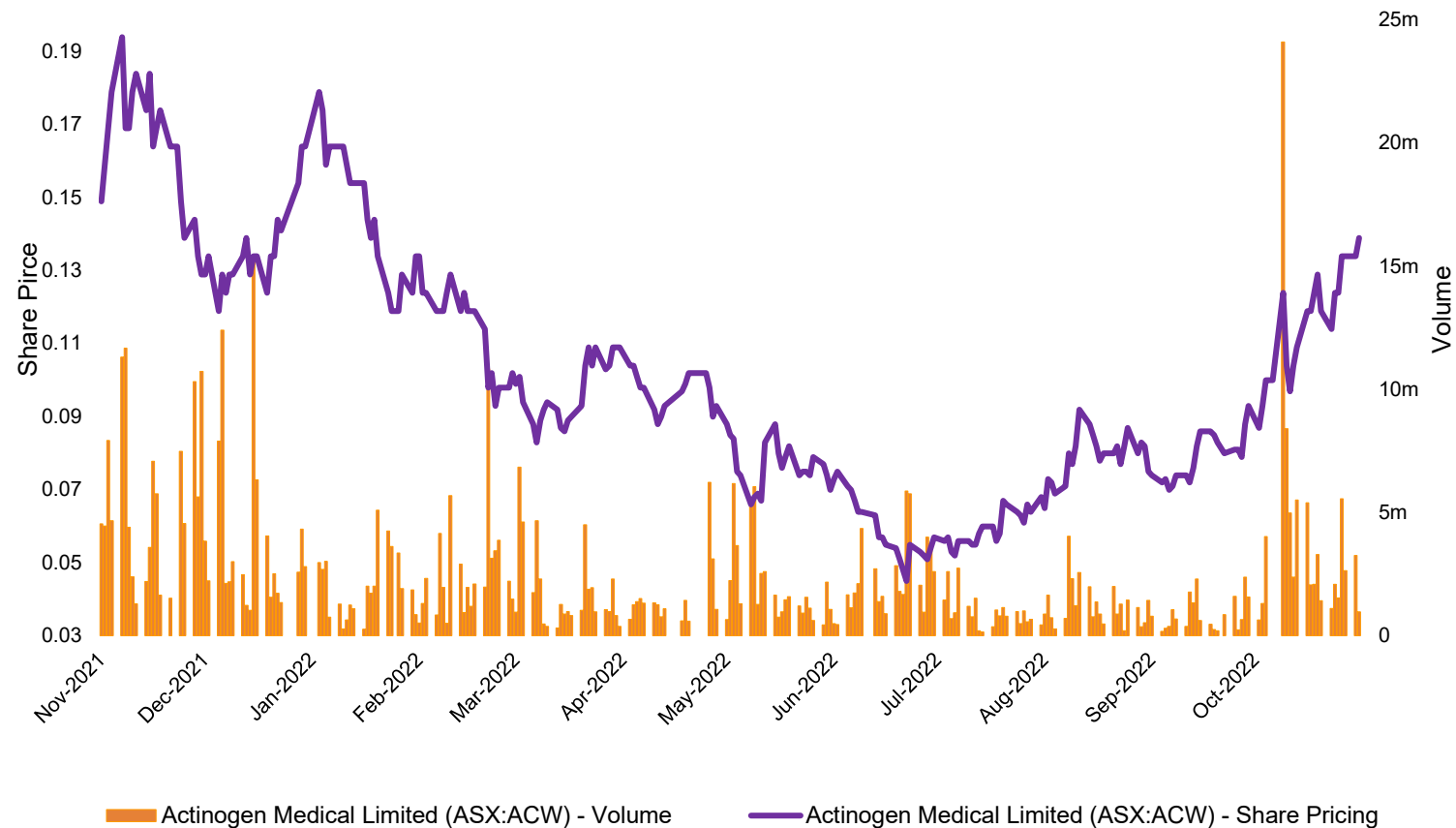
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# ACW top stockholders and stock price



## Share price chart at 01 November 2022

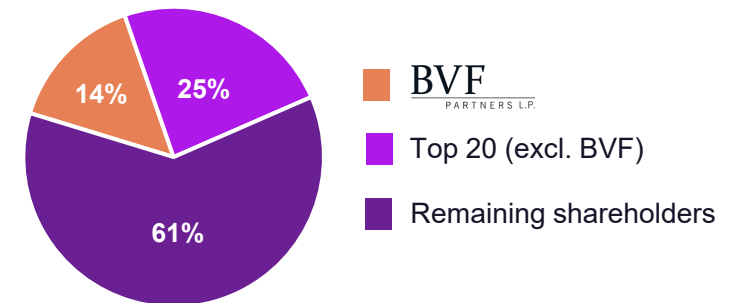


## Trading Information

|                                     |                     |
|-------------------------------------|---------------------|
| 52 week high                        | A\$0.20             |
| 52 week low                         | A\$0.04             |
| Number of issued shares             | 1,796M              |
| Market capitalisation (01 Nov 2022) | A\$242M             |
| Cash Balance at 30 Sep 2022         | A\$17M <sup>1</sup> |

## Major Shareholders

|                           |       |
|---------------------------|-------|
| BVF Partners              | 13.9% |
| Steven Gourlay            | 3.7%  |
| Edinburgh Technology Fund | 2.7%  |



<sup>1</sup> Including receivable of A\$4 million for R&D tax credit

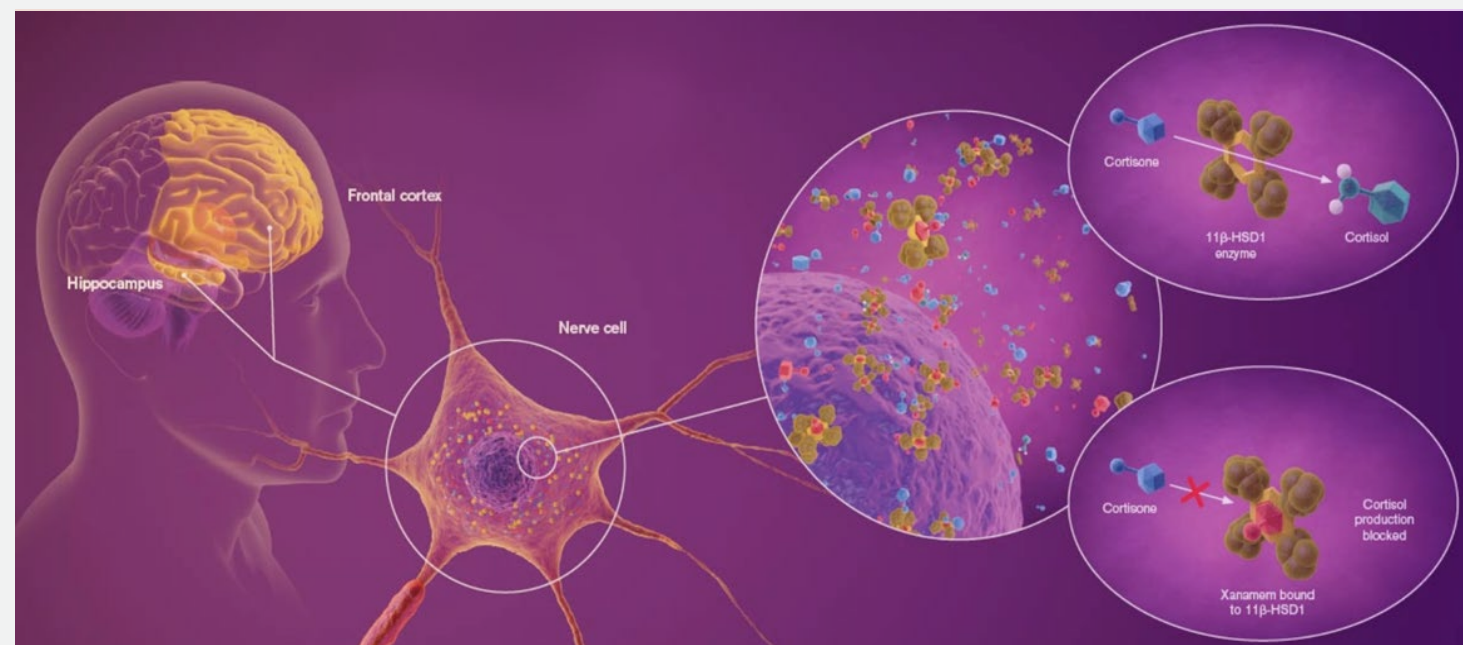


# Xanamem: Oral, low dose, once-a-day treatment with a unique non-amyloid mechanism

Brain penetrant 11 $\beta$ -HSD1 small molecule enzyme inhibitor reduces cortisol inside brain cells - modulating signaling pathways and underlying disease processes<sup>1,2</sup>

Potential to be:

- Rapidly cognitive enhancing
- Disease-modifying (slow or halt progression) in AD
- Anti-depressant



1. Xanamem® is a CNS (Central Nervous System) penetrant small molecule based on human PET scan evidence and cerebrospinal fluid (CSF) measurements  
 2. Sooy et al. 2015 showing effects on amyloid plaque reduction in an aged mouse model after 28 days associated with increases in insulin degrading enzyme; Popoli et al. 2011 microglial cell modulation in rats, effects on glutamate, cannabinoid and other signalling pathways

# Leadership and Management



## Extensive drug development and commercial experience

### Experienced Board of Directors...



**Dr. Geoff Brooke**

Chairman

MBBS; MBA



- **30+ years experience** in the healthcare investment industry
- Founder and MD of Medvest Inc and GBS Ventures, Chairman of Cynata Therapeutics, Board Member of Acrux



**Dr. George Morstyn**

Non-Executive Director

MBBS; PhD; FRACP; MAICD



- **25+ years experience** in biotech investment and drug development
- Board member of Cancer Therapeutics and Symbio



**Mr. Malcolm McComas**

Non-Executive Director

BEC, LLB; FAICD; SF Fin



- **25+ years experience** in the financial services industry
- Chairman of Pharmaxis and Fitzroy River Corporation



**Dr. Steven Gourlay**

CEO & MD

MBBS; FRACP; PhD; MBA



- **30+ years experience** in development of novel therapeutics
- Former founding CMO at US-based Principia Biopharma Inc

See full team and bios at:  
<https://actinogen.com.au/our-company/#about-us>

### ...with a talented management team in place



**Jeff Carter**

Chief Financial Officer

B. Fin Admin; M. App. Fin; CA



**Tamara Miller**

SVP Product Development

M.Med Sci; BSc; MSc; PMP; CPPM



**Dr Paul Rolan**

Chief Medical Officer

MD, FRACP



**Cheryl Townsend**

VP Clinical Operations

RN, M Health Law



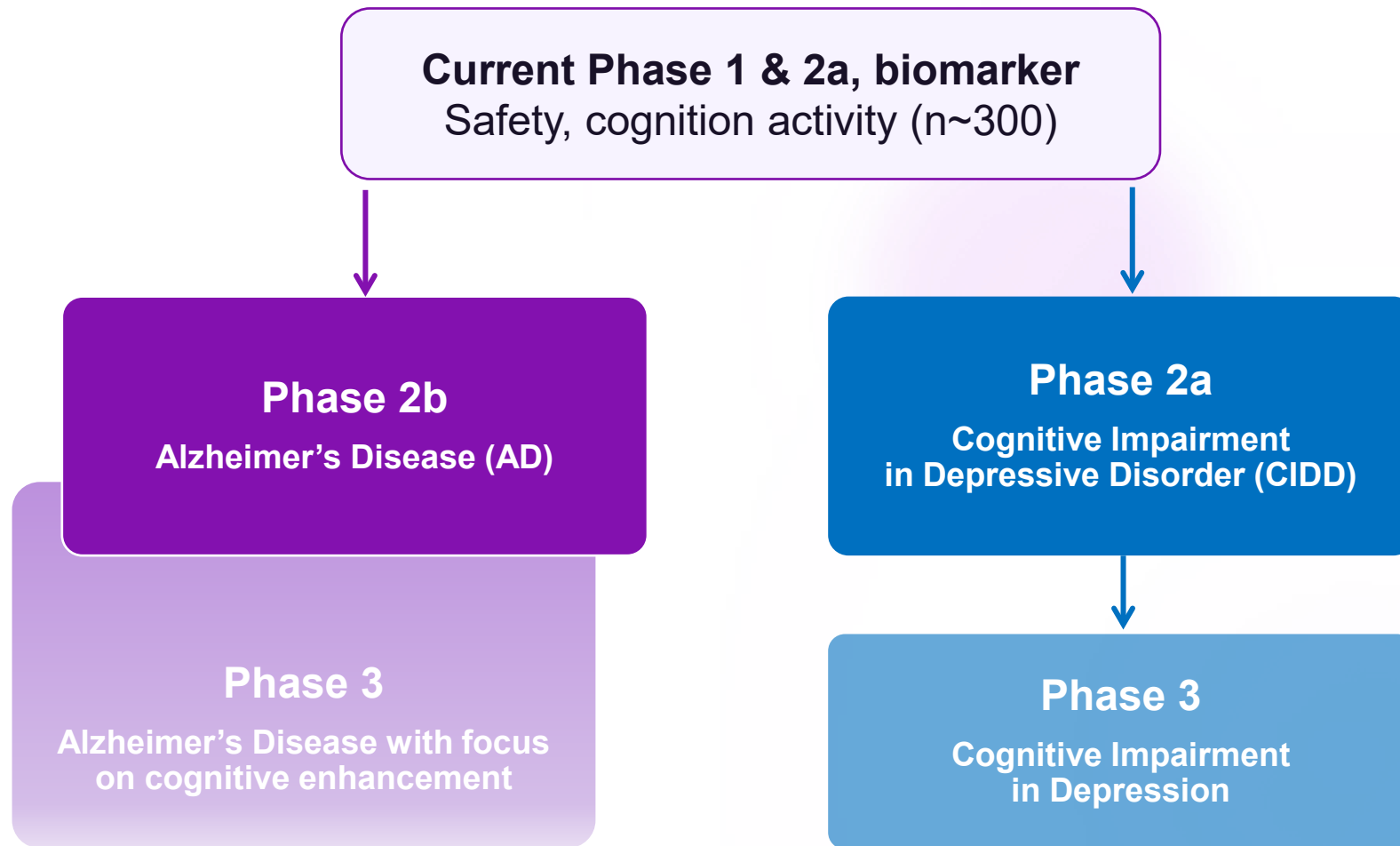
**Dr Christian Toouli**

Head of Business Development

PhD; GAICD

# Xanamem Phase 2 & 3 program

Building on four independent Phase 1 and 2 studies showing activity





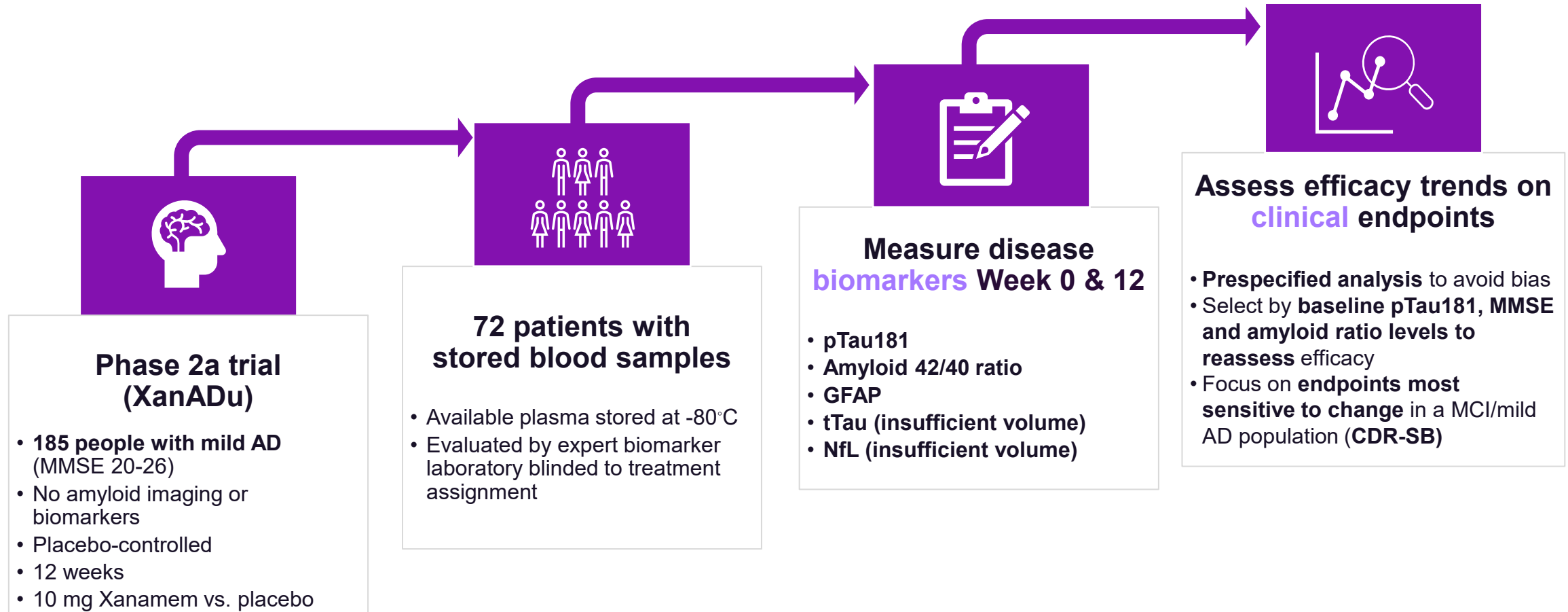
## Previously: evidence of Xanamem activity in cognition from multiple sources

- ✓ **In animals**
  - ✓ **Protection against cognitive decline in animal model of AD using a Xanamem analogue independent of amyloid plaque**
- ✓ **In humans**
  - ✓ **PET scan study showing high levels of target binding at doses of 5 mg and above**
  - ✓ **Consistent target engagement measured by ACTH response**
  - ✓ **XanaHES trial in cognitively normal older volunteers – Cogstate attention & working memory**
  - ✓ **XanaMIA trial in cognitively normal older volunteers – Cogstate attention & working memory**

**Human and animal data support Xanamem activity at doses of 5 to 10 mg daily**

# Phase 2 blood biomarker study design & methods

Uses a pre-specified protocol and analysis plan to avoid bias



**Creates valuable data relating to patient selection and efficacy in a mild AD population**

# Clinical Dementia Rating – Sum of Boxes (CDR-SB)

*functional* endpoint to assess dementia in early-stage AD

| Test domain                | Impairment |              |      |          |        |
|----------------------------|------------|--------------|------|----------|--------|
|                            | None       | Questionable | Mild | Moderate | Severe |
|                            | 0          | 0.5          | 1    | 2        | 3      |
| Memory                     |            |              |      |          |        |
| Orientation                |            |              |      |          |        |
| Judgment & Problem Solving |            |              |      |          |        |
| Community Affairs          |            |              |      |          |        |
| Home & Hobbies             |            |              |      |          |        |
| Personal Care              |            |              |      |          |        |

Score is sum of each line i.e. score between 0 and 18 (0 = normal)

# Xanamem doubled rate of disease stabilization on FDA-approved CDR-SB endpoint



Response analysis in pTau-positive patients with “real AD” likely to progress

*Twice as many patients in the Xanamem group had stable or improved disease compared with placebo<sup>1</sup>*

*56% of patients treated with Xanamem were stable or improved vs. 28% in placebo*

*Large effect size represents a 60-80% relative reduction of disease progression vs. placebo*

**Xanamem protected the majority of patients from progression**

1. Where CDR-SB decreased or was unchanged - Xanamem 9 of 16 (56%) vs. Placebo 5 of 18 (28%)

# Bedside cognition test (MMSE) shows Xanamem effect measurable in more severe dementia



More clinically impaired subgroup

|                     | N  | Change in MMSE score |         |         |           |         |
|---------------------|----|----------------------|---------|---------|-----------|---------|
| Group               |    | Desired change       | Xanamem | Placebo | Cohen's d | p value |
| MMSE 20-23 (mean)   | 46 | Up                   | 1.7     | -0.3    | 0.93      | 0.02    |
| MMSE 20-23 (median) | 46 | Up                   | 2.0     | -1.0    | -         | -       |

Clinically & statistically significant effect size of MMSE +2.0 to 3.0 units

# Efficacy conclusions

**This analysis validates and de-risks the AD program by showing:**

- ✓ **Clinical activity of Xanamem in mild AD patients**
- ✓ **Large clinical effect size**
- ✓ **Utility of blood pTau levels to select suitable patients for next Phase 2b trial**
- ✓ **Utility of CDR-SB to measure the benefit of Xanamem in future trials**
- ✓ **Potential utility of tests of executive function in future trials**
- ✓ **Complements positive prior trial findings on attention & working memory**

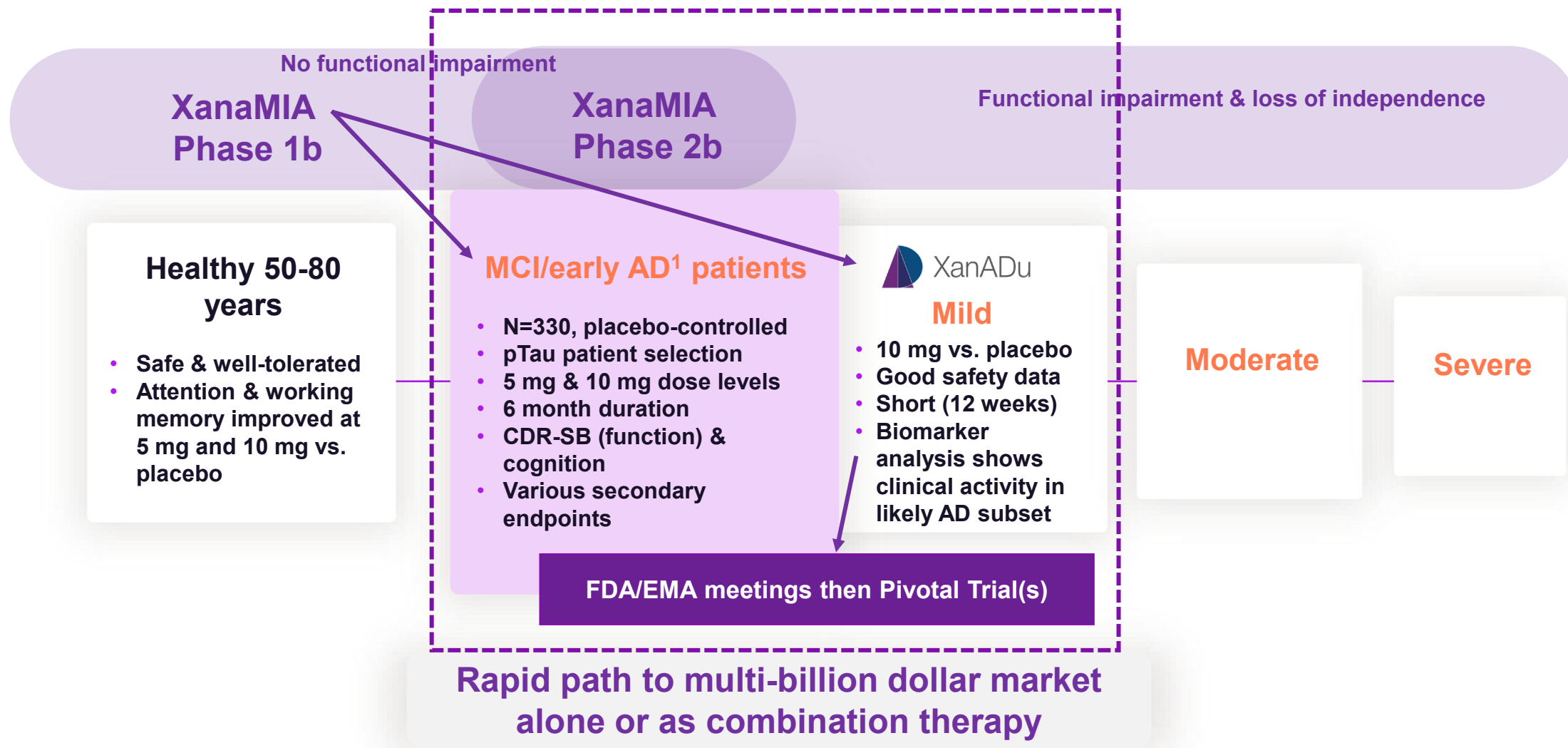


# Moving forward rapidly in Cognitive Impairment in AD and Depression

**Biomarker data validate planned Phase 2b protocol in Mild Cognitive Impairment / mild AD with positive blood pTau**



# Focus on speed to market as a cognitive enhancing treatment



1. Mild Cognitive Impairment (MCI): memory, executive function deterioration with retained functional abilities; very mild AD with some functional impairment

# Science Behind the Xanamem Depression Program

- ✓ 80-90% report neurocognitive symptoms<sup>1</sup>
- ✓ Cognitive symptoms often persist during remission<sup>1</sup>
- ✓ Elevated cortisol associated with severe, melancholic depression<sup>2</sup>
- ✓ Cortisol associated with treatment outcomes, relapse, & cognition<sup>3</sup>
- ✓ Positive effects with GR receptor antagonism with mifepristone<sup>4</sup>
- ✓ Meta-analysis of clinical cortisol approaches<sup>5</sup>
- ✓ Xanamem & improved human cognition<sup>6</sup>

1. 3-year prospective study and review, Conradi et al. 2011  
2. Quantitative summary of four decades of research, Stetler & Miller 2011  
3. Depression literature review, Malhi & Mann 2018; HPA axis in major depression, Keller et al. 2016  
4. GR, **glucocorticoid receptor**; Combined analysis of mifepristone for psychotic depression, Block et al. 2018; mifepristone effects on depression in bipolar disorder, Young et al. 2004; Evidence from clinical studies with CRH<sub>1</sub> receptor antagonists, Holsboer & Ising 2008  
5. Meta-analysis of prior trials aimed at reducing cortisol, Ding et. al 2021  
6. Xanamem placebo-controlled trial working memory & attention (Actinogen data on file)



# Market characteristics of Major Depressive Disorder (MDD)

**MDD is common<sup>1,2</sup>**

**~5% prevalence globally, 1 in 7 lifetime risk**

**Neurocognitive symptoms are a typical feature (>80%)<sup>3</sup>**

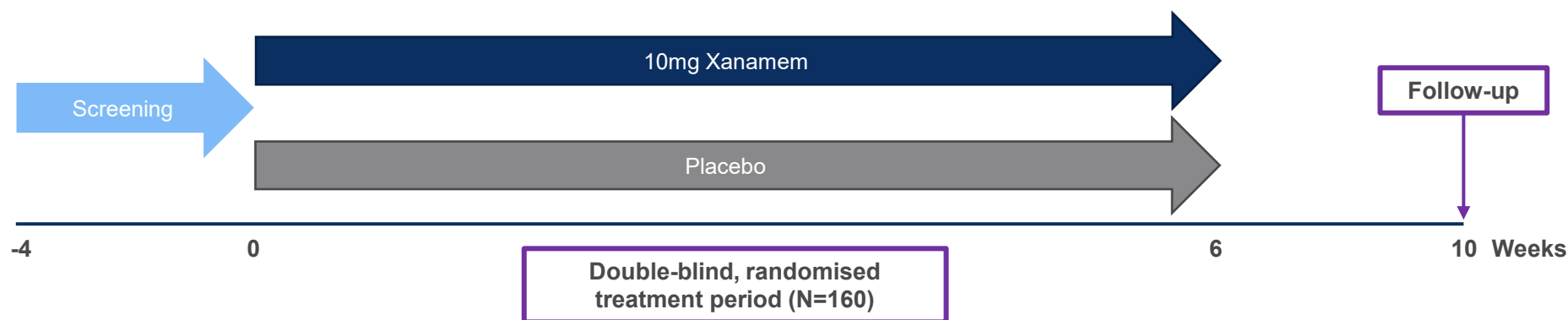
**Difficulty thinking and concentrating, unable to make decisions**

**Only one anti-depressant has a cognitive benefit in its label**

**Vortioxetine sales US\$500m<sup>4</sup>**

1. World Health Organization, Depression. 2021.  
2. Kessler & Bromet 2013  
3. Conradi et al. 2011, *Psychol Med*, 41(6):1165-74.  
4. Lundbeck financial reports 2020

# XanaCIDD trial design & implementation model

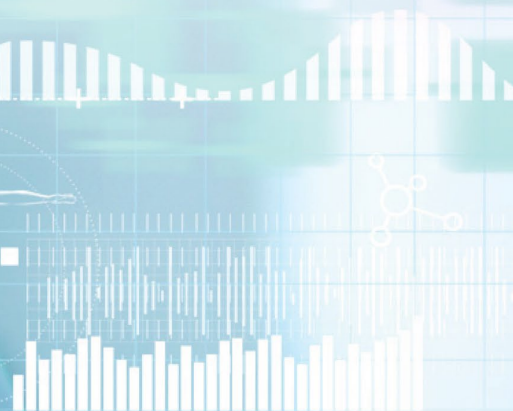


| Key inclusion/exclusion criteria   | Primary Endpoints  | Key Secondary Endpoints   | Key Implementation Features  |
|--|--|---|--|
| <ul style="list-style-type: none"> <li>Primary diagnosis of <b>MDD</b></li> <li><b>Persistent depressive symptoms despite existing therapy</b></li> <li><b>Cognitive impairment</b> relative to demographic norms</li> </ul> | <ul style="list-style-type: none"> <li><b>Cogstate CTB attentional composite</b> (attention and working memory)</li> </ul> | <ul style="list-style-type: none"> <li>Montgomery-Åsberg Depression Rating Scale (<b>MADRS</b>)</li> <li><b>Executive Function</b> Cognitive Composite</li> <li><b>Memory Function</b> Cognitive Composite</li> </ul> | <ul style="list-style-type: none"> <li><b>Australian trial sites</b></li> <li><b>Actinogen “hands-on” operational model</b></li> <li><b>First patient enrollment planned for 2022</b></li> </ul> |



# Xanamem's unique value proposition

Many other opportunities such as other types of dementia and neuropsychiatric conditions





# Actinogen has the only non-amyloid mechanism drug in development with credible cognitive data



It is one of only three worldwide AD clinical trial programs for an **oral medication with credible cognitive activity data**

| Mechanism  | Stage   | Cognitive endpoint                         | Company market cap. (\$AU) <sup>1</sup> |
|--|---------|--|---|
| <b>Oral Xanamem</b> to lower brain <b>cortisol</b> ( <b>Actinogen</b> )  | Phase 2 | Cognitive test battery, <b>CDR-SB, NTB</b> | 230 million                             |
| <b>Oral inhibition filamin A</b> to stop A $\beta$ 42 <b>amyloid</b> signal to TLR/ $\alpha$ 7nicR ( <b>Cassava Sciences</b> ) | Phase 3 | Cognitive test battery                     | 2.3 billion                             |
| <b>Oral QPCT inhibitor</b> to prevent toxic <b>amyloid</b> formation ( <b>Vivoryon</b> )                                       | Phase 2 | Cognitive test battery                     | 280 million                             |

**Xanamem is unique with 3 independent trials now showing cognitive and clinical benefits relevant to AD and other diseases**

# The Xanamem opportunity in depression is large



## Current anti-depressants



work slowly (3 weeks) and  
initial suicide risk



do not target cognition



multiple adverse effects  
blood pressure, sexual function, appetite...



Xanamem improves cognition quickly

Xanamem may improve both depression and cognitive impairment

# Xanamem Strategy & Timeline



# Actinogen strategy validated by new results



Backed by strong balance sheet and intellectual property

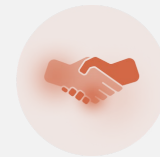
## Accelerate clinical development

- **Focus on cognitive enhancement:**
  - Patients with early Alzheimer's Disease
  - Use pTau for patient selection
  - Phase 2b will use commercial tablets
  - Cognitive enhancement Depression Phase 2
  - Trial operations based in Australia and selected other countries

## Forward planning

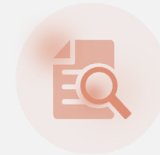
- Scale up and optimise **manufacturing** to prepare for commercially viable, large scale production
- **Ancillary clinical and nonclinical** studies
- **Commercial** planning

## Create value from partnerships



### **Pharma/biotech engagement**

- **Actively engage large and mid-size potential partners with new results**
  - Seek value-add partnerships
  - Evaluate regional opportunities



### **Regulatory engagement**

- Seek early **US FDA and EMA** interactions to agree endpoints for pivotal, approvable trials in AD



# Xanamem timeline & catalysts



**2022**

- October **multiple partnering presentations of new results**
- November **CTAD XanaMIA presentation**
- Trial **enrollment starts for XanaCIDD** trial in Depression
- Key global **regulatory submissions** in AD with FDA, EMA, other
- Phase 2b XanaMIA **AD trial preparation**

**2023**

- **Partnering discussions**
- **XanaMIA Phase 2b** enrollment starts H1
- **XanaCIDD** enrollment ± results
- **Presentations & publications**

**2024**

- **XanaMIA Phase 2b results**
- **Expand Cognitive/Depression** program
- **Expand Alzheimer's Disease** program



# Appendix





# Selected glossary 1



**11 $\beta$ -HSD1** 11 beta HydroxySteroid Dehydrogenase-1 enzyme

**A $\beta$**  Amyloid beta – a type of amyloid protein associated with Alzheimer’s Disease, 42 and 40 are different forms

**ACTH** Adrenocorticotrophic hormone that regulates blood levels of cortisol

**ADAS-Cog** Alzheimer’s Disease Assessment Score - Cognition

**ApoE4** Apoprotein genotype associated with genetic risk of Alzheimer’s Disease

**ATN** Amyloid, Tau, Neurodegeneration

**Clinical scales** Measure how a patient feels, performs and functions

**CDR-SB** Clinical Dementia Rating “Sum of Boxes” scale measuring cognition and function on an 18-point scale (high worse)

**CNS** Central nervous system

**CSF** Cerebrospinal fluid

**CTAD** Clinical Trials on Alzheimer’s Disease (conference)

**CTB** Cognitive Test Battery of computerized tests

**Double-blind** Investigators, participants and company do not know who has active vs placebo treatment during a trial

**EMA** European Medicines Agency

**FDA** US Food & Drug Administration

**GFAP** Glial Fibrillary Acidic Protein – a marker of microglial cell activation in the brain

**Filamen A** a protein believed to relate to amyloid toxicity

**IDSST** International Digit Symbol Substitution Test of cognition

# Selected glossary 2



**IQCODE** Informant Questionnaire on Cognitive Decline in the Elderly

**MCI** Mild Cognitive Impairment – memory, executive function deterioration with retained functional abilities

**MDD** Major Depressive Disorder

**MMSE** Mini Mental State Examination – a 30-point scale of simple questions to assess mental abilities

**NfL** Neurofilament Light – a nerve protein in the brain and rest of the body too

**NIA-AA** National Institutes of Aging and Alzheimer's Association

**NMDA** a type of receptor for glutamate in the brain

**NPI** Neuropsychiatric Inventory to assess psychiatric symptoms

**NTB** a Neurologic Test Battery, in this presentation one designed to measure executive function aspects of cognition

**PET** Positron Emission Tomography – a type of body scan

**Placebo controlled** Non-active treatment for double-blind design

**p-Tau181 or 217** AD biomarker of phosphorylated Tau protein

**QPCT** GlutaminyI-peptide cyclotransferase is an enzyme proposed to create toxic amyloid species

**RAVLT** Rey Auditory Visual Learning Test

**RBANS** Repeatable Battery for the Assessment of Neuropsychological Status (a test of mental abilities)

**ROC AUC** Receiver Operating Curve Area Under the Curve (1.0 ideal) – a type of statistical test to compared two methods of measurement

**Tau** – a brain protein

**Ttau** – total tau levels including both phosphorylated and non-phosphorylated tau