Developing **Xanamem™** for Alzheimer's Dementia

Dr. Bill Ketelbey CEO, Actinogen Medical

Investor Presentation
March 2015

Actinogen Medical

Forward Statements

This presentation has been prepared by Actinogen Limited. ("Actinogen" or the "Company") based on information available to it as at the date of this presentation. The information in this presentation is provided in summary form and does not contain all information necessary to make an investment decision.

This presentation does not constitute an offer, invitation, solicitation or recommendation with respect to the purchase or sale of any security in Actinogen, nor does it constitute financial product advice or take into account any individual's investment objectives, taxation situation, financial situation or needs. An investor must not act on the basis of any matter contained in this presentation but must make its own assessment of Actinogen and conduct its own investigations. Before making an investment decision, investors should consider the appropriateness of the information having regard to their own objectives, financial situation and needs, and seek legal, taxation and financial advice appropriate to their jurisdiction and circumstances. Actinogen is not licensed to provide financial product advice in respect of its securities or any other financial products. Cooling off rights do not apply to the acquisition of Actinogen securities.

Although reasonable care has been taken to ensure that the facts stated in this presentation are accurate and that the opinions expressed are fair and reasonable, no representation or warranty, express or implied, is made as to the fairness, accuracy, completeness or correctness of the information, opinions and conclusions contained in this presentation. To the maximum extent permitted by law, none of Actinogen its officers, directors, employees and agents, nor any other person, accepts any responsibility and liability for the content of this presentation including, without limitation, any liability arising from fault or negligence, for any loss arising from the use of or reliance on any of the information contained in this presentation or otherwise arising in connection with it.

The information presented in this presentation is subject to change without notice and Actinogen does not have any responsibility or obligation to inform you of any matter arising or coming to their notice, after the date of this presentation, which may affect any matter referred to in this presentation.

The distribution of this presentation may be restricted by law and you should observe any such restrictions.

This presentation contains certain forward looking statements that are based on the Company's management's beliefs, assumptions and expectations and on information currently available to management. Such forward looking statements involve known and unknown risks, uncertainties, and other factors which may cause the actual results or performance of Actinogen to be materially different from the results or performance expressed or implied by such forward looking statements. Such forward looking statements are based on numerous assumptions regarding the Company's present and future business strategies and the political and economic environment in which Actinogen will operate in the future, which are subject to change without notice. Past performance is not necessarily a guide to future performance and no representation or warranty is made as to the likelihood of achievement or reasonableness of any forward looking statements or other forecast. To the full extent permitted by law, Actinogen and its directors, officers, employees, advisers, agents and intermediaries disclaim any obligation or undertaking to release any updates or revisions to information to reflect any change in any of the information contained in this presentation (including, but not limited to, any assumptions or expectations set out in the presentation).

Actinogen Medical

Actinogen Medical - Overview

Developing a novel treatment for Alzheimer's disease (AD) and Mild Cognitive Impairment (MCI)

- Lead compound Xanamem™ blocks production of cortisol – the stress hormone – in the brain. A novel mechanism of action

Successful early development – Phase II planning underway

- Positive results in pre-clinical and first Phase I study – early development funded by the Wellcome Trust
- Initiating second Phase I study and final pre-clinical studies – results due mid-2015. Research fully funded.
- Phase II study planned for 2016 in AD and MCI
- US FDA's designation of Mild Cognitive Impairment as an indication shifts the landscape for AD drug development to much earlier treatment

Alzheimer's – a significant and growing unmet medical need

- AD population expected to triple over the next generation, increasing prevalence underpinned by shifting age demographic
- American Alzheimer's Association estimates the direct healthcare cost in 2013 of US$250bn

Actinogen Medical

Board and Management

A highly experienced Board and Management team with a wealth of drug development, commercialisation and clinical research expertise

Martin Rogers
Chairman

- Biotechnology entrepreneur and executive
- Chair and Non Executive Director of OncoSil (ASX:OSL), Chair of Rhinomed (ASX:RNO) and Non-Executive Director of Cellmid (ASX:CDY)

Bill Ketelbey
CEO

- MD with 30 years' experience in pharmaceuticals
- Senior roles at Pfizer, including development of Aricept™, the current leading AD treatment

Vince Ruffles
VP Clinical Research

- Extensive drug development experience over 20 years
- Responsible clinical development and regulatory strategy

Jason Loveridge
Non-Executive Director

- Former head of Nomura Life Sciences Fund in the UK with 28 out of 34 investment wins in investing in Biotech

Anton Uvarov
Non-Executive Director

- Healthcare equities analyst
- Executive Director of Sun Biomedical

Actinogen Medical

A significant, unmet need

Alzheimer's disease is emerging as one of the most significant health challenges of our time

- A person develops AD almost every minute in the US[1]
- AD cost the US healthcare system **$US250 billion** in 2013
- Estimated to increase to **US$1 trillion** by 2050, outstripping the cost of treating all other diseases
- Current treatments are of limited benefit. New and alternative treatments are desperately needed
- Xanamem™ has the potential to be a multi-billion dollar product

Alzheimer's is the only cause of death among the top 10 in America that

CANNOT BE PREVENTED, CURED OR EVEN SLOWED.

1 in 3 Seniors

DIES WITH ALZHEIMER'S

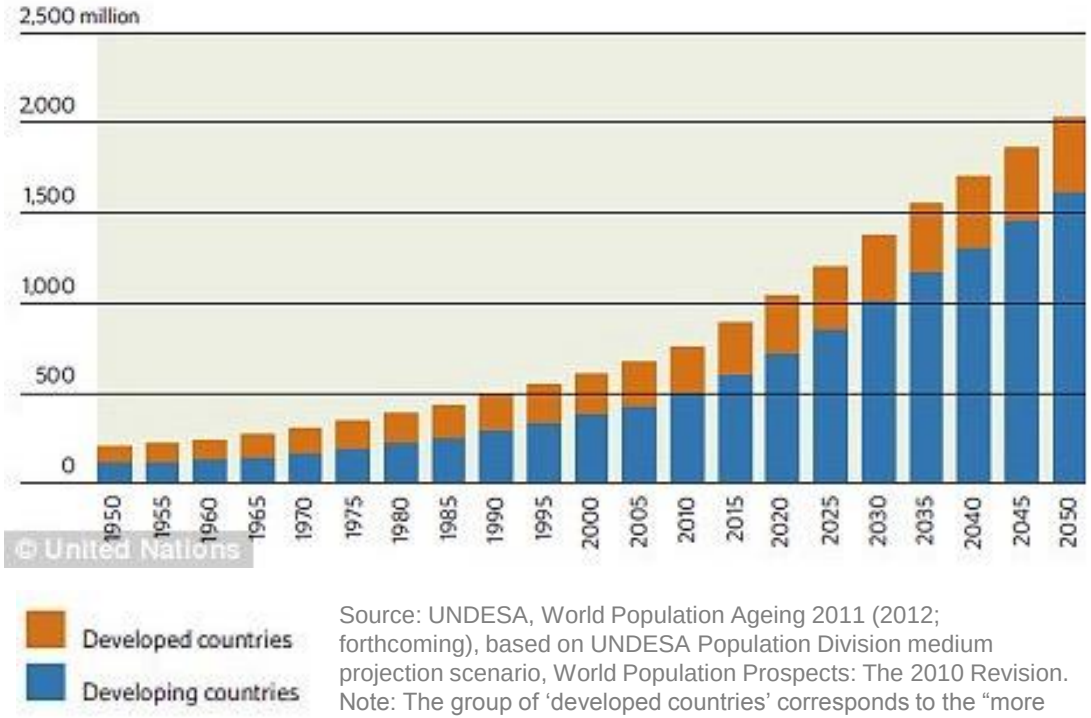
or another dementia.

[1]Alzheimer's Association- Facts and Figures 2014) http://www.alz.org/downloads/Facts_Figures_2014.pdf?utm_content=bufferb49b5&utm_medium=social&utm_source=twitter.com&utm_campaign=buffer

Actinogen Medical

AD consequence of a rapidly ageing population

Number of people aged 60 or over: World, developed and developing countries, 1950-2050



Source: UNDESA, World Population Ageing 2011 (2012; forthcoming), based on UNDESA Population Division medium projection scenario, World Population Prospects: The 2010 Revision. Note: The group of 'developed countries' corresponds to the "more developed regions" of the World Population Prospects: The 2010 Revision, and the group "developing countries" corresponds to the "less developed regions" of the same publication.

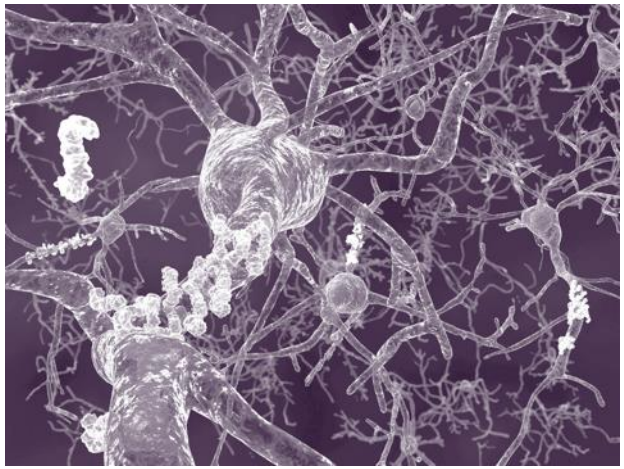
- Affects nearly **36 million patients** worldwide[1]
- In Australia, there are currently **320,000** AD sufferers – by 2050, this is expected to rise to close to **1 million**.
- Commonly diagnosed in patients in their 60's, with 25% of 85 year olds and up to **50% of 95 year olds** developing the disease
- AD is the **sixth leading cause** of death in the US[2]

Actinogen Medical

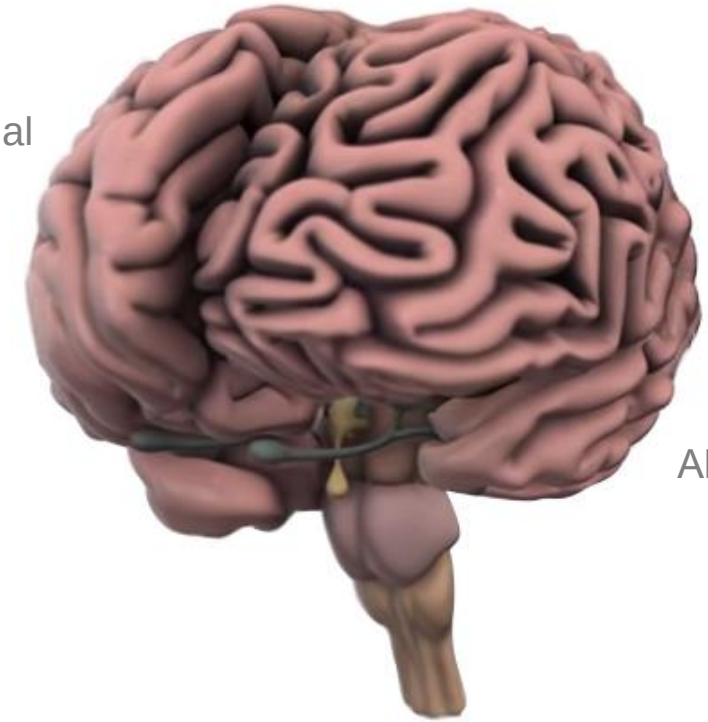
The hallmarks of AD

Memory, language and abstract reasoning impairment with

- brain shrinkage – particularly hippocampus and cortex
- neuronal loss
- amyloid plaques
- neurofibrillary tangles



Normal



Alzheimer's

Actinogen Medical

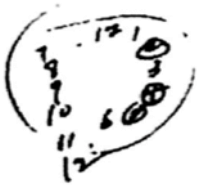
Signs of AD

Dementia is typically documented by decreasing performance on neuropsychological tests assessing memory, general knowledge, language, abstract reasoning and the ability to perform particular tasks requiring minimal skill:

‘ Please draw a clock. Put the hours on it and set the time at 2:45’

Score 10:
Normal

Score 8:
Mild Cognitive Impairment (numbers error and placement of hands)



Score 4:
Moderate cognitive impairment

Score 2:
Severe cognitive impairment

Actinogen Medical

Overview of Xanamem™

Xanamem™ - under development as a treatment for Alzheimer's disease and its precursor Mild Cognitive Impairment

THOMSON REUTERS

recently named Xanamem™ as one of the top five drugs in Phase 1 development in the global pharmaceutical or biotech industries

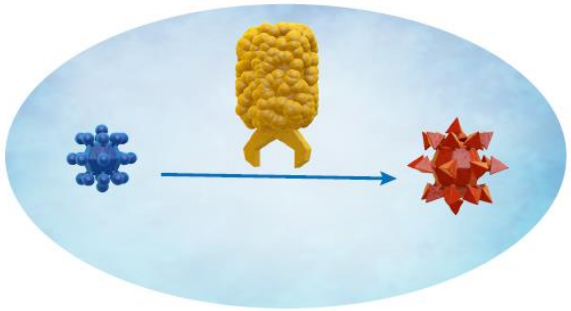
- A novel mechanism of action blocking the production of cortisol in the brain
- Excess cortisol (the stress hormone) has been shown to lead to reversible memory loss, amyloid plaques and neural death – hallmarks of AD
- Link between excess cortisol and cognitive performance identified in patients with Cushing's disease, Alzheimer's, depression and normal aging
- Early development of Xanamem™ funded by the Wellcome Trust: $25m over seven years
- Second Phase I study underway - data expected mid-2015
- Phase II to target Mild Cognitive Impairment – the early onset of AD
- Patent protection to 2030, additional patents pending

Actinogen Medical

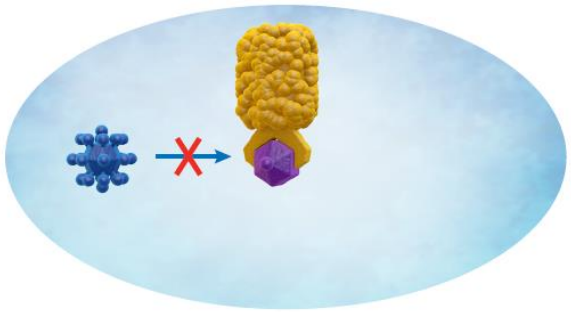
Mechanism of action: a key differentiator

Xanamem's novel mechanism of action sets it apart from other AD treatments

- The HSD1 enzyme activates cortisone, producing cortisol – the stress hormone
- Xanamem™ blocks the HSD1 enzyme and prevents production of cortisol
- Excess cortisol contributes to the memory loss, amyloid plaques and neural death associated with AD
- The HSD1 enzyme is most concentrated in the hippocampus and frontal cortex of the brain – the areas most impacted by AD
- Pre-clinical and clinical data suggests Xanamem™ has the potential to treat AD and its early prodromal stage, Mild Cognitive Impairment and significantly alter the course of the disease



HSD enzyme actives cortisone producing cortisol



Xanamem binds to HSD, blocking cortisol production

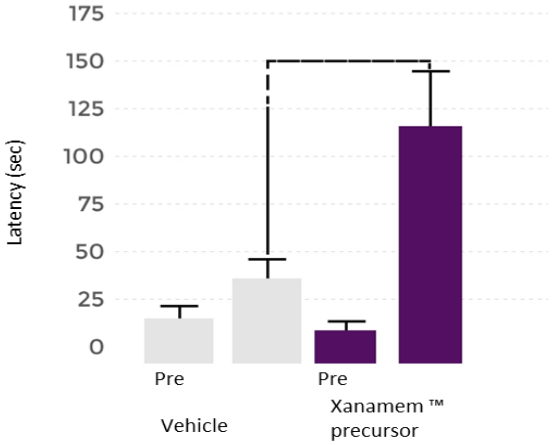
Actinogen Medical

Pre-clinical data

Xanamem™- a highly selective HSD1 inhibitor in pre-clinical animal models.

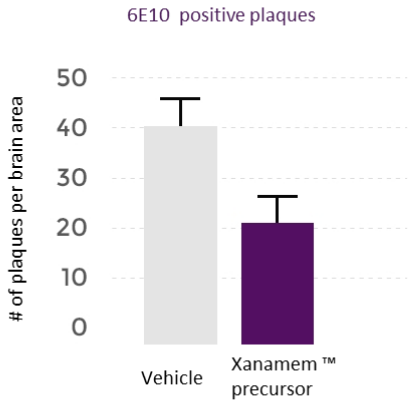
- Inhibition of HSD1 improves cognition in ageing and AD models
- Inhibition of HSD1 reduces Aβ plaque burden and plasma Aβ in AD models

Cognitive Enhancement with Xanamem™ in AD (Performance in Passive Avoidance Test, treatment for 28 days)



AD - progressive cognitive decline

Xanamem™ reduces number of Aβ plaques in AD brain (28 day treatment)



AD - associated with amyloid plaques in the brain

Actinogen Medical

Clinical trials overview

Second Phase 1 study in healthy volunteers underway

- Trial conducted at Linear Clinical Research, Sir Charles Gairdner Hospital Perth, Western Australia.
- 40 healthy volunteers enrolled across 3 studies
- First study to confirm how the body absorbs and metabolises Xanamem™ and the optimal dose
- Two follow-on studies:
  - Fast-fed study in a cohort of 12 patients
  - Additional study of 4 patients to confirm the central nervous system pharmacokinetics of Xanamem™
- Full results expected by mid 2015

Linear
Clinical Research Limited

Phase II efficacy and safety study in patients with AD and Mild Cognitive Impairment. Planned for 2016 in US, Australia and UK

Actinogen Medical

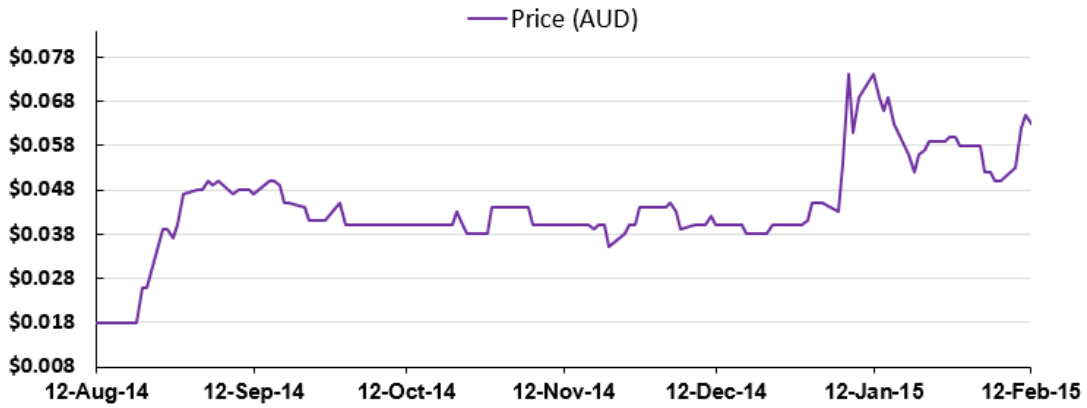
Pipeline

Xanamem's novel mechanism of action – blocking excess cortisol production – has many additional possible applications

- Relevant to diseases of the central nervous and endocrine/metabolic systems
- Assessing potential development opportunities in:
  - Cognitive dysfunction in schizophrenia
  - Cognitive dysfunction in depression
  - Type 2 diabetes
  - Obesity
  - Cardiovascular disease
  - Neuroprotection in metabolic disease

Actinogen Medical

Financial profile



Key Corporate Data:	
Market Cap:	$35 m
Share Price	$0.072
Cash as of 31 Dec 2014	$2.05 m
Shares on issue	492 m

Top Ten Shareholders	Percentage
Edinburgh Technology Fund Limited	9.78%
JK Nominees Pty Ltd	7.05%
Tisia Nominees Pty Ltd	6.83%
Mr Martin Rogers	5.08%
Warmbi SARL	4.41%
Denlin Nominees Pty Ltd	4.06%
Mr Jason Peterson & Mrs Lisa Peterson	3.56%
Webinvest Pty Ltd	3.35%
Oaktone Nominees Pty Ltd	2.99%
Dr John William Ketelbey	2.48%

Actinogen Medical

Milestones

EARLY-2015

Second Phase I trial

- ✓ Ethics approval received
- ✓ Initiated

Final pre-clinical studies for IND

- ✓ 1 of 2 initiated

MID-2015

Results for Phase I trial and final preclinical studies

Establishment of Xanamem Clinical Advisory Board

2016

Phase II efficacy study in patients with AD and Mild Cognitive Impairment

Phase II study and protocol design

Actinogen Medical

Investment highlights

- Xanamem™ a potential treatment for AD and its early symptomatic stage Mild Cognitive Impairment
- Significant unmet need in a huge and growing global market
- Novel mechanism of action, targeting the stress hormone cortisol – a key differentiator
- Hypothesis backed by good pre-clinical and clinical evidence. Early development funded by Wellcome Trust
- Final Phase I and preclinical results due mid-2015; funded through to completion of these studies
- IND filing and Phase II study planned for 2016
- Patent protection to 2030, additional patents pending
- Tight capital structure with top 20 shareholders owning more than 70%

Actinogen Medical

Contact details

Head Office	Level 10, 15-17 Young Street, Sydney, NSW, 2000
Telephone:	+61 (02) 8964 7401
Facsimile:	+61 (02) 8964 7588
Email:	bill.ketelbey@actinogen.com.au
Twitter:	@billketelbey

Actinogen Medical

Actinogen Medical

Thank you and questions