

Dr Bill Ketelbey CEO

November 29th 2017



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2017 highlights





Announcements on 29 November 2017

Capital Raise

- Successfully raised \$5.28m in a placement to sophisticated investors
- Subscription of 132m fully paid ordinary shares at \$0.04 per share
- Proceeds fully fund XanADu

XanADu interim analysis

- Efficacy and safety data on first 50 completed patients
- Data available Q2 2018 a year earlier than full study results
- Data may provide an early indication of the potential on Xanamem in Alzheimer's disease



XanADu

- XanADu regulatory approval FDA (Jan.), MHRA (Feb.), TGA (March)
- XanADu first patient treated in Australia in May 2017, June in USA and August in UK
- Enrolment to date 44, on track for Q4 2018 last patient, with Q2 2019 top-line results
- First XanADu patient completes in September –6 now completed

Key data publications/presentations

- CTAD San Diego Dec 2016
- Publication of Xanamem human trial data Webster et al Jan 2017
- Publication of the AIBL data (Pietrzak et al Feb 2017), and Nature cortisol data (Stuart et al June 2017)













Actinogen Board





Recruitment of Dr. Geoff Brooke as Chairman and Dr. George Morstyn as NED from December 1, 2017





Dr. Bill Ketelbey appointed as NED on WIMR Board







BD and IR

- Significant media –
 Channel 9, Newscorp
 etc.
- Pharma Partnering participated in BIO
 International,
 AusBiotech JP
 Morgan January 2018



Xanamem – well positioned

- A growing, medically unsatisfied market: Alzheimer's now the leading cause of death in Australian women, and second only to cardiovascular disease in men
- Differentiated treatment: failure of a number of other development drugs with different mechanisms of action
- Strong IP: all 7 patent families granted in all major markets (USA, Canada, EU, UK, Japan, China, Australia) out to at least 2031



Grants

- R&D Tax Rebate: \$1.2m
- EMDG grant \$45,000, with the 2017 application under review









Sünday Times perth now .com.au



REGINA TITELIUS

could revolutionise treatment of Alzheimer's disease has ment of the first WA patient

ment of the first WA patient as part of a global trial. The medicine Xanamem, developed by biotech com-pany Actinogen Medical, which started in WA, has been hailed by scientists as

way of treating the disease that affects more than 413,000 Australians.

43,000 Australians.

While current medications for Alzheimer's only
treat symptoms, Xanamem
has been shown to help treat
the underlying disease by
blocking the stress hormone
cortisol which then improves
mental function. mental function.

The new clinical trial. family history of Alzheimer's Australia, the US and UK, will be the biggest of its kind ever conducted by an Australian biotech company and builds

on more than a decade of research into the drug. A study involving WA

North Fremantle, who has no

"We had an inkling that something was wrong but when Ian got the diagnosis, it mem trial at Hollywood Hos-pital is being run in was such a shock," Ms Bourke Mr McFarlane said he ini-

tially tried to cover up his About 170 patients with memory loss until he realised mild Alzheimer's will be sought across the trial's 20 sites. The treatment course "If this drug works, it could change my life," he said. Actinogen chief executive Dr Bill Ketelbey said

November 2015. Soon after, his partner Helen Bourke, 53, also spotted his forgetfulness

After months of tests, Mr McFarlane received his offi-

cial diagnosis in January, just

Alzheimer's was now Austra lia's second-biggest killer, with close to 65 million Australian

Change Case Sanday III Not 1957

Men's Health



close to 6.5 million Australians expected to be diagnosed with the disease in the next 40 years. "Age is the single biggest risk factor for developing Alzheimer's and the number of sufferers is doubling every 20 years" be achieved.

AUSTRALIAN FIRM TREADS



Channel 9, Melbourne, National Nine Early News, Julie Snook

The more follows we have, the better we understand the in to disease.

There is new hope for people suffering from Alzheimer's with scientists believing they are ...

Duration: 1 min 28 secs • ASR AUD 25,429 • National • Australia • Actinogen Medical - Radio & TV • ID: M00071005338





10 Jul 2017 5:10 AM

Trial go-ahead for new Alzheimer's drug

ANYW drug to bee Audio. mortal fundamentation. Professor Associate Storm, symptoms that they don't his sound bigget hiller. Autolian corpora Ac whose price to will be part. End the underhing droom: Abstract doos; will be freque Medical will look says then is good and form the said. blocks the stress hormone. More than I/O patients: early-stage study's.

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the work's next Modebuster - State will see the trial. treatments been nountries

corted to improve mental with mild demonsts in Aus- "Trivery important to get independent of Albertan's.

*The*Senior

What will it take to find a cure for Alzheimer's disease?

Total audience reach



🗐 Breakthrough Alzheimer's medication could 'make a difference' in just three months

136 words • ASR AUD 4,176 • Actinogen Medical - Internet • ID: 807408330

A new hormone-blocking drug that could slow the progression of Alzheimer's disease is being trialled in Australia. Xanamem blocks excess production of the stress hormone cortisol in the brain, which is linked to the development of

I Actinogen enrols US patients for XanADu

22 Jun 2017 4:38 PM

69 words • ASR AUD 16,117 • Actinogen Medical - Internet • ID: 797313700

Actingen Medical has enrolled the first two US-based patients into XanADu, its phase II clinical trial of Xanamem in

These US patients highlight global reach of XanADu: the study will enrol 174 patients at 20 research sites in the...



Actinogen Medical (ASX:ACW) has announced the appointment of drug developer and former Amgen executive, Dr George Morstyn, to its ard as a non-executive director, effective 1 December 2017.

Morstyn (MBBS, PhD, FRACP) brings extensive drug development experience to the e. He was senior vice-president of development and chief medical officer at US stechnology giant, Amgen, having joined the company in its earliest years.

Amgen he was responsible for drug development across all therapeutic areas, fuding neuroscience. Under his leadership, he oversaw the marketing approval of my new products and subsequent successful commercial launches.



There is new hope for people suffering from Alzheimer's with scientists believing they are on the verge of a breakthrough as they trial a promising pill in Melbourne which shows signs of slowing symptoms. The drug is being tested by Australian company Actinogen in 20 cities across the UK, the US and Australia.



2018 outlook



Outlook 2018

XanADu

- Fully funded to complete XanADu in Q2 2019, with a good capital runway beyond
- Interim efficacy and safety data analysis of first 50 completed XanADu patients - around May 2018
- On track for last patient enrolled in Q4 2018

Xanamem

- Potential additional studies to enhance the Xanamem data set, including diabetes cognitive impairment, disease modification, enzyme occupancy and others
- Planning for Phase III



Grants

- R&D Tax and EMDG
- Targeting additional non-dilutive grants



Business Development

Participation at pharma partnering meetings – JP
 Morgan, BIO International, BIO Europe, BIO Asia etc.



Xanamem



Xanamem

- A novel, first in class, potent, orally bioavailable, brain-penetrant, 11βHSD1 inhibitor
- Differentiated mechanism of action: blocking cortisol production in the brain
- Symptomatic and disease modifying effects in vivo

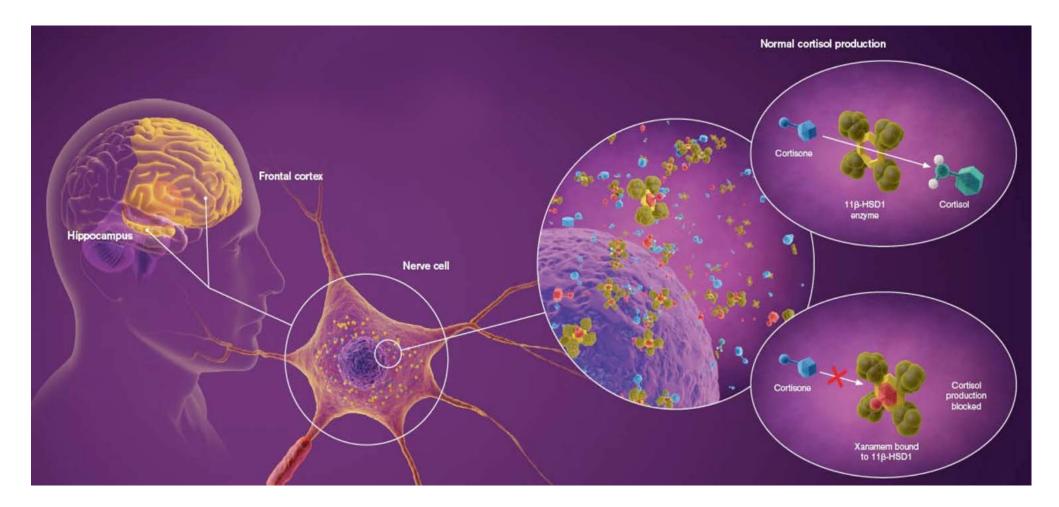


- Efficacious human brain concentrations
- XanADu phase II clinical study underway, dosing subjects with mild AD dementia in USA, UK, AU
- Planning ongoing for additional clinical indications
- Composition of matter IP coverage ≥ 2031, patents granted in all major markets



Mechanism of action

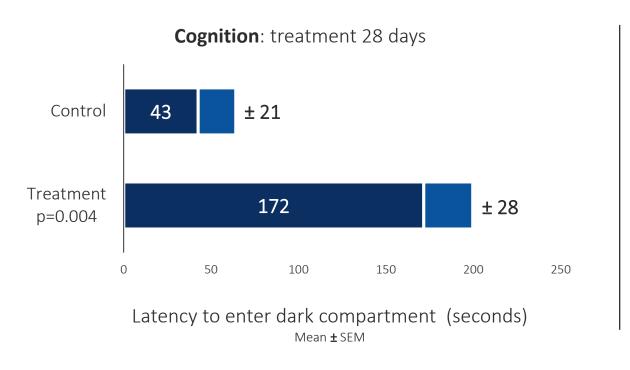
Xanamem binds to 11βHSD1, reducing brain cortisol production

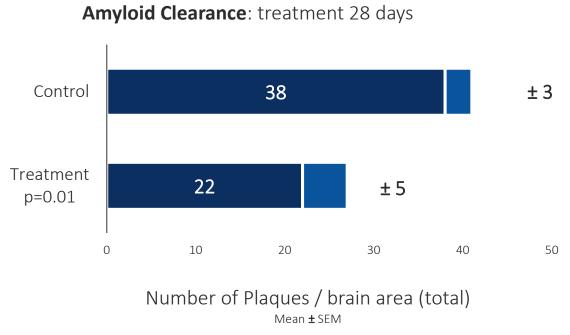




Xanamem

Symptomatic and disease modifying effects in mouse models





Significant improvement in cognition after only 28 days treatment, continuing out to 41 weeks



XanADu





XanADu – Xanamem in Alzheimer's disease

Phase II double blind, randomised, placebo-controlled study to assess the efficacy and safety of Xanamem in participants with mild Alzheimer's disease*

- 44 patients enrolled (25% of total study cohort) and first 6 patients already completed study
- On track for last patient in Q4 2018 and top line results in Q2 2019
- All 20 study sites open and patients enrolled in USA, UK and Aus





^{*}Registered on Clinicaltrials.gov: NCT02727699

Investment potential



Recent comparable deals

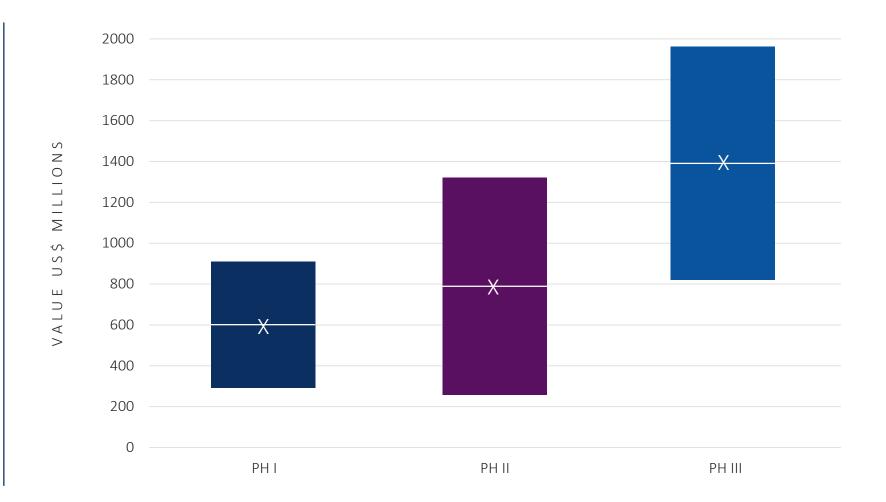
Assets with Alzheimer's disease as the lead indication

Licensee/acquirer	Licensor/acquired	Year	Candidate	Phase	Deal Value (US\$M)	Upfront (US\$M)
Allergan	Heptares Therapeutics	2016	Three M1/M4 agonists	Ph I	<u>\$3,340</u>	\$125
Janssen	AC immune	2015	ACI-35	Ph Ib	<u>\$509</u>	Undisclosed
Merck	Bionomics	2014	BNC-375	pre-clinical	<u>\$526</u>	\$20
Eli Lilly	AstraZeneca	2014	AZD3293	Ph I	<u>\$500</u>	\$50
Iperian	BMS	2014	IPN007	pre-clinical	<u>\$725</u>	\$175
Otsuka	Lundbeck	2013	Idalopirdine	Ph II	<u>\$825</u>	\$150
Janssen	Orion	2013	ORM-12741	Ph IIa	undisclosed	\$31



Peer comparison

What big pharma companies are paying for acquisition of drug developers in the Alzheimer's space





In closing...



Summary



A huge market with a significant unmet medical need

Xanamem

- Differentiated with a novel mechanism of action
- Small molecule oral
- High quality development plan and regulatory review
- Solid IP out to at least 2031
- Numerous other potential uses

XanADu

- Fully funded to completion
- Early data readout from interim analysis
- On track for last patient enrolled end 2018
- 25% enrolled already, with 6 completed



Substantial independent support for cortisol/Alzheimer's hypothesis



Highly experienced
Board



Growing interest in Xanamem from pharma partners



A compelling investment opportunity





CEO & Managing Director

7 Main: +61 2 8964 7401

Email: bill.ketelbey@actinogen.com.au

www.actinogen.com.au

