

ASX ANNOUNCEMENT

Actinogen presentation for meetings at BIO International Convention

Sydney, 14 June 2022. Actinogen Medical ASX: ACW ("ACW" or "the Company") announces that the Company's CEO and Head of Business Development will be attending the BIO International Convention in San Diego, USA from June 14 to 16, 2022.

The convention is the world's largest gathering of the biotechnology industry and facilitates opportunities for industry-leading investor and partnering meetings, education forums and networking.

The attached presentation will be used for discussions and meetings involving Actinogen at the convention.

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.

Actinogen is currently developing its lead compound, Xanamem, 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 11β -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 11β-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. 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[®] 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.



XanaMIA confirmatory trial results, Phase 2 trial designs for Alzheimer's Disease and Depression

:99 :RP

Dr. Steven Gourlay MBBS PhD MBA, CEO & MD June 14, 2022

Presented at BIO, San Diego June 14-16, 2022



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Actinogen snapshot

Actinogen Medical (ASX:ACW) is developing a novel oral treatment with rapid onset of clinical activity to improve cognition and quality of life



Favourable pharmaceutical properties



Substantial clinical data

Attractive disease indications and rationale



- Demonstrated target engagement in brain and HPA axis¹ in human trials
- Low dose, ≤10mg
- Low drug-drug interaction potential suitable for combination therapy
- ✓ >300 subjects or patients safely treated
- Cognitive enhancement activity (attention & working memory) confirmed in two consecutive well-controlled trials (5 mg, 10 mg & 20 mg dose levels vs. placebo)
- Strong cortisol rationale for treatment of multiple diseases: early stages of Alzheimer's Disease; Depression & related cognitive impairment; Fragile X Syndrome; and many others
- Molecule in-licensed from U Edinburgh in 2014
- Comprehensive patents in place²
- Cash position A\$19M at 31 Mar 2022

1. Hypothalamic-Pituitary-Adrenal axis (body's system to regulate blood levels of cortisol)

2. Composition of matter to 2031 plus 5-year extension in most countries, new patents published and in process

Leadership and Management

Extensive drug development and commercial experience



Experienced Board of Directors...





Dr. Geoff Brooke Chairman MBBS: MBA therapeutics GBS VENTURE



• 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

••• SymBio Cancer Therapeutics CRC

- · 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

pharmaxis FitzroyRiver

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

...with a talented management team in place



Dr. Steven Gourlay CEO & MD MBBS; FRACP; PhD; MBA

BIOPHARMA Genentech A Member of the Roche Group

- 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/ourcompany/#about-us



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



Head of Business Development PhD: GAICD

International Cognition Clinical Advisory Board



Global thought leaders in clinical trials for assessment of cognition



Prof. John Harrison

Metis Cognition Ltd

- Expert psychologist with a special interest in cognition
- Chartered psychologist with two PhDs and author/co-author of more than 80 books and scientific articles
- Principal Consultant at Metis Cognition, which advises on selection and integration of cognitive testing into therapeutic development programs



Dr Dana C. Hilt

- 25+ years of drug development experience, primarily of Central Nervous System (CNS) drugs
- Deep experience in Phases 1 to 4
 drug development
- CMO at Frequency Therapeutics and has held senior management positions as Chief Medical Officer at various pharmaceutical companies



Dr Christina Kurre Olsen

ORPHAZYME

- 20+ years research expertise in neuroscience, neuropsychopharmacology, CNS therapeutics and monoclonal antibody immunotherapy
- Strong hands-on knowledge across drug development value chain and a passion for cognition
- Medical Director at Orphazyme A/S



Prof. Paul Maruff

Cogstate

- Chief Innovation Officer at Cogstate Ltd
- Professor in Neuroscience at the Florey Institute of Neuroscience and in Psychology Monash University, Melbourne Australia
- Senior management committee of the Australian Imaging, Biomarkers and Lifestyle (AIBL) study of Alzheimer's Disease
- Involved in the development and approval of 13 new drugs that affect cognition including most recently esketamine for treatment resistant depression

International Scientific Advisory Boards



Thought-leader academics involved in the development of Xanamem

Alzheimer's Disease Clinical Advisory Board





Prof. Craig Ritchie Chair THE UNIVERSITY of EDINBURGH

- World-leading authority on dementia: senior investigator on 30+ drug trials
- · Chair of the Scottish Dementia Research Consortium: Professor of the Psychiatry of Ageing' Director Head, Neurodegeneration of the Centre for Dementia Prevention (University of Edinburgh)



Prof. Colin Masters AO THE UNIVERSITY OF FL®REY



- Alzheimer's Disease and other neurodegenerative diseases
- I aureate Professor of Dementia Research and Division at The Florey Institute (UniMelb)



Prof. Jeffrey Cummings



- World-renowned Alzheimer's researcher and leader of clinical trials
- MD. ScD: Founding Director of the Cleveland Clinic Lou Ruvo Center for Brain Health
- Recognised for his work through various awards

Prof. Jonathan Seckl Prof. Brian Walker



 Undertaken extensive research in endocrinology

- Senior VP at the university of Edinburgh; Chaired Panels for MRC. Innovate UK and Wellcome Trust
- MBBS UCL, PhD (London)



• 20+ years research in the area of disease

Scientific Advisory Board

- Extensive experience advising for pharmaceutical R&D
- Pro Vice Chancellor for **Research Strategy &** Resources at Newcastle University, UK



Prof. Scott Webster



- Chair of Medicines at the Centre of Cardiovascular Science, University of Edinburgh
- Former positions across both biotech and academia
- · Founder and Chief Scientific Officer at Kynos Therapeutics

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Xanamem®: oral, low dose, once-a-day treatment with a unique mechanism

Brain penetrant 11β-HSD1 small molecule enzyme inhibitor reduces cortisol inside brain cells - modulating signaling pathways and underlying disease processes^{1,2}

Potential to be:

- Rapidly cognitive enhancing
- Disease-modifying (slow or halt progression)



^{1.} Xanamem® is a CNS (Central Nervous System) penetrant small molecule based on human PET scan evidence and cerebrospinal fluid (CSF) measurements

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

 ® Xanamem is a registered trademark of Actinogen Medical Limited



Previously

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38



allithman

Cognitive improvement vs. placebo in healthy, older volunteers in XanaHES trial in 2019



- Cogstate Cognitive Test Battery (CTB) with 20 mg daily, 12-week treatment; effect size (ES) estimated with the same MMRM statistical model as the current trial¹
- Clinically significant effects on "attention" domains of cognition (ES² attention composite = 1.2)



9



High target engagement confirms brain activity at Xanamem doses of ≤10mg



PET data demonstrates that Xanamem extensively binds to the 11β-HSD1 enzyme throughout the brain, with high post-treatment effects (absence of colour) after 7 days at all doses, slightly less at a 5 mg dose.

This is consistent with full hormonal pharmacodynamic activity seen with 10 mg in clinical trials.



XanaMIA Phase 1b/2 trial design

Targeting the earliest stages of Alzheimer's Disease (AD)

XanaMIA - Part A: Double-blind Phase 1b

H12022: minimally effective dose level

107 healthy older subjects with normal cognition, 50-80 years of age

- 10 mg & 5 mg daily vs. placebo
- designed to measure effect sizes in cognition rather than statistical significance

6-week duration of therapy, 4-week follow up

Primary dose-response objectives:

- 1. Safety of 5 mg and 10 mg dose levels
- 2. Pharmacodynamics of ACTH¹ response
- 3. Cognition: especially attention effects seen previously in Cogstate CTB

XanaMIA - Part B:

Phase 2

2023: robust Phase 2 study design in patients with early stages of Alzheimer's Disease

- **N ~ 300, 3 groups**, 5mg, 10mg, placebo
- MCI or mild AD with serum biomarker(s) positive
- Double-blind, randomized
- **6 months duration** (may be extended if biomarker analysis supports a disease-modification strategy)
- Primary endpoints Cogstate CTB & Safety
- Various secondary endpoints



XanaMIA Part A dose-ranging topline results

The XanaMIA Part A trial met its objectives



- Clinically significant improvements were seen in the attentional domains, including working memory, of the Cogstate CTB with both doses, including visual attention with 5 mg at the end of treatment achieving the a priori primary endpoint criterion of Cohen's d > 0.3 (Cohen's d = 0.32, Z = 1.97, p < 0.05)
- Xanamem was **safe and well-tolerated** over the 6-week treatment period in this cognitively normal population aged 50-80 years (mean age 64 years, mixed female and male population)
- Both 5 mg and 10 mg dose levels showed **pharmacodynamic activity** by raising mean ACTH by 2.03 to 2.35 times, respectively, principally within the normal laboratory range and to a similar extent as higher doses in prior studies
- Cognitive findings consistent with prior XanaHES trial and with high brain activity of 5 mg and 10 mg doses in a Positron Emission Tomography (PET) study

ACTH hormone response suggests similar Xanamem biological activity at 5 mg and 10 mg dose levels

ACTH is the brain hormone that regulates cortisol production in the adrenal gland



* steady-state plasma levels are achieved after 3 days: Webster et al. 2017, Actinogen data on file



Attention Composite improved at Week 4 and 6 vs. placebo

Pooled working memory/visual attention/psychomotor speed (mean, SE)





Effect Sizes Attention Composite & domains



Magnitude of treatment effect (on-treatment MMRM ES¹ > 0.9 in green)

XanaMIA trial	Desired	Effect size ¹ 5 mg			Effect size ¹ 10 mg		
Cognitive Evaluation (Test)	improvement	Week 4 N=35	Week 6 N=35	Follow up N=33	Week 4 N=30	Week 6 N=29	Follow up N=29
Attention Composite	Positive	0.52	1.29	0.51	0.65	0.48	-0.38
Working Memory (One Back Test)	Positive	0.19	1.11	1.11	0.42	0.98	1.07
Visual Attention (Identification Test)	Positive	0.45	1.97 ²	-0.31	-0.48	0.29	-1.99
Psychomotor Function (Detection Test)	Positive	0.95	0.27	0.83	1.61	0.30	0.65

1. Z-score of standardized treatment effect (mean difference in MMRM model change from baseline vs. placebo/standard error of change); Z > 0.9 ~ one-sided 80% confidence interval or greater

2. p < 0.05 by MMRM, Cohen's d (raw mean change/pooled raw standard deviation of change) = 0.32

Previous XanaHES trial ³	Week 4	Week 8	Week 12	Follow up	
Attention Composite ES ¹	1.11	1.20	1.27	1.36	
 XanaHES Phase 1 clinical trial treated healthy elderly patients with 20mg Xanamem daily (n=30 active, n=12 placebo). MMRM ES Z-score calculated by a similar model to the XanaMIA trial 					

Effect Sizes non-attentional domains, IDSST-S



Mixed positive & negative effects similar to previous XanaHES trial; no effect on IDSST-S (on treatment MMRM ES¹ > 0.9 in green and -0.9 in pink)

XanaMIA trial	Desired	Effect Size ¹ 5 mg			Effect Size ¹ 10 mg		
Cognitive Evaluation Test	Improvement	Week 4 N=35	Week 6 N=35	Follow up N=33	Week 4 N=29	Week 6 N=29	Follow up N=29
Composite	Positive	-0.60	-1.34	-0.67	-1.34	-0.09	-0.12
Paired Associate Learning (CPAL Test)	Positive	-0.17	1.07	0.47	-1.11	0.41	0.38
Delayed recall (CPAR)	Positive	-0.74	-1.83	-0.86	-0.98	-0.36	-1.42
Visual Learning (One Card Learning Test)	Positive	-0.15	-1.22	-0.57	-0.69	-0.19	0.77
IDSST-S	Positive	-0.19	0.04	0.07	-0.84	-0.20	-0.69

1. Z-score of standardized treatment effect (mean difference in MMRM model change from baseline vs. placebo/standard error of change); Z > 0.9 ~ one-sided 80% confidence interval or greater

Previous XanaHES trial	Week 4	Week 8	Week 12	Follow up		
Non- Attention Composite ES ²	0.56	0.11	0.13	-0.20		
 XanaHES Phase 1 clinical trial treated healthy elderly patients with 20mg Xanamem daily (n=30 active, n=12 placebo). MMRM ES Z-score calculated by a similar model to the XanaMIA trial 						

Xanamem was safe and well-tolerated



- No treatment-related serious adverse events
- Other predominantly mild events were generally equally distributed across the three groups including placebo
- No adverse events of concern, consistent with program safety database of over 300 people studied in trials to date



Summary

- There is a strong unmet need for new and safer treatments for many diseases where dysregulated cortisol is a target Xanamem is designed to reduce cortisol inside brain cells
- Xanamem is potentially a rapidly-acting cognitive enhancer and, in the longer term, a disease modifier
- This Phase 1b trial in cognitively normal, older volunteers met its primary objectives of safety, pharmacodynamics and clinically significant effects on cognition:
 - ✓ Rapid improvements in cognition for attention tests highly consistent with the prior XanaHES trial
 - ✓ Met primary cognitive endpoint of Cohen's d > 0.3 and other clinically significant effects in test domains of "attention" (working memory, visual attention, psychomotor function)
 - ✓ Biological activity confirmed for 5 mg and 10 mg dose levels based on ACTH hormonal response
 - ✓ ACTH and cognition findings were consistent with high target engagement in the brain at low doses visualized with PET imaging



Strategy & Next Trials

Actinogen Strategy



Accelerate clinical development

- Focus on cognitive enhancement:
 - Early stages of Alzheimer's Disease
 - Implement XanaMIA Part B Phase 2
 - Depression Phase 2 trial
 - Trial operations mainly in Australia
- Suspend global Fragile X Syndrome Phase 2 until alternative funding can be found

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 on cognitive enhancement development programs

Moving Xanamem trials into AD patients with a focus on cognitive enhancement & biomarkers





Regulatory consultations and pivotal studies





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

XanaMIA Part B trial design & implementation model





iDSST=international Digit Symbol Substitution Test - Symbols ; IQCODE=Informant Questionnaire on Cognitive Decline in the Elderly; MCI=mild cognitive impairment; NIA-AA=National Institute of Aging -Alzheimer's Association; RBANS=Repeatable Battery for the Assessment of Neuropsychological Status;

Science Behind the Xanamem Depression Program

Unmet medical need for rapid, safe treatment

- ✓ 80-90% report neurocognitive symptoms¹
- ✓ Cognitive symptoms often persist during remission¹
- ✓ Elevated cortisol associated with severe, melancholic depression²
- Cortisol associated with treatment outcomes, relapse, & cognition³
- Positive effects with GR receptor antagonism with mifepristone⁴
- ✓ Meta-analysis of clinical cortisol approaches⁵
- ✓ Xanamem & improved human cognition⁶
- 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

GR, glucocorticoid receptor; Combined analysis of mifepristone for psychotic depression, Block et al. 2018; mifepristone effects on depression in biopolar disorder, Young et al. 2004; Evidence from clinical studies with CRH₁ receptor antagonists, Holsboer & Ising 2008
 Mate analysis of prior tribule aimed to traducine actival officate. Disor et al. 2024;

^{5.} Meta-analysis of prior trials aimed at reducing cortisol effects, Ding et. al 2021

^{6.} Xanamem placebo-controlled trial working memory & attention (Actinogen data on file)

XanaMDD trial design & implementation model





Key inclusion/exclusion criteria	Primary Endpoints	Key Secondary Endpoints	Key Implementation Features
 Primary diagnosis of MDD Persistent depressive symptoms despite existing therapy Cognitive impairment relative to demographic norms 	 Cogstate CTB attentional composite (attention and working memory) Montgomery-Åsberg Depression Rating Scale (MADRS) 	 Executive Function Cognitive Composite Memory Function Cognitive Composite 	 Fully operationalized at Australian trial sites Actinogen "hands-on" operational model



Xanamem Clinical Development Pipeline

		Phase 2 Pathway	Outlook
	Cognitive impairment in early Alzheimer's disease	 Biomarker analysis in patients with mild AD Phase 2 dataset of 10mg vs. placebo over 12 weeks, H2 2022 Cognitive benefit in patients with early stages of AD Phase 2 XanaMIA Part B commencing H2 2022 	"Big-to-market" Multiple Phase 2b/3 trials
	Depression with cognitive impairment	Depression and cognitive impairment placebo-controlled trial - Phase 2 XanaMDD trial to commence in H2 2022	Potential to treat both depression and related cognitive impairment
Y	Anxiety, sleep & behavioural problems in Fragile X Syndrome	XanaFX (IND) - Phase 2 proof-of-concept in adolescent and young adult males	Pending alternative funding or partnership

Timeline for Xanamem data & catalysts



2022

- Q2 XanaMIA Part A confirmed cognitive enhancement
- Q2 BIO in-person pharma/biotech meetings with new data
- Q3/4 Biomarker data to assess disease-modifying potential
- Q4 CTAD XanaMIA presentation
- Q4 New trials commence in Alzheimer's Disease and Depression
- Q4 Key global regulatory planning meetings with FDA, EMA

2023

- XanaMIA Part B enrollment
- XanaMDD enrolment ± topline results



- XanaMIA Part B topline results
- Expand Depression program
- Expand Alzheimer's Disease program

Appendix



ACW top stockholders and stock price





Trading Information

52 week high	A\$0.20
52 week low	A\$0.056
Number of issued shares	1,796M
Market capitalisation (10 Jun 2022)	A\$108M
Cash Balance at 31 Mar 2022	A\$19.0M

Major Shareholders	
BVF Partners	13.9%
Steven Gourlay	3.7%
Edinburgh Technology Fund	2.7%





XanaMIA Part A statistical methods

- Double-blind, randomized design, industry best standard statistical analysis for smaller sample size trials: computerized cognitive testing with the Cogstate CTB¹ with International Digit Symbol Substitution Test - Symbols (IDSST-S)
- "Intention-to-treat" analyses with no imputation for missing data, no "last observation carried forward"
- Linear Mixed-Effects Model for Repeated Measures (MMRM) with treatment group, visit, and treatment-by-visit interaction as fixed effects. Baseline score was included as a covariate and subject-specific intercept as a random effect
- Effect Sizes (ES) vs. placebo were estimated from modelled data as Z scores and raw data as Cohen's d statistics
- For cognitive data the a priori criterion for effect detection was Cohen's d ≥ 0.3 in one or more tests (≥ 0.2 is regarded as clinically meaningful in Alzheimer's Disease)

^{1. &}quot;Attention domains were individual and composite scores of working memory (one back test), visual identification (identification test), psychomotor function (detection test); other XanaMIA results and Phase 2 designs 31 domains were a one card learning test, a delayed recall test and continuous paired learning test.

Effect size statistics measure "signal to noise"



Ratios commonly used in trials of Alzheimer's Disease using raw or statistical model data



 ADASCog endpoint using ES as Cohen's d (Aduhelm: estimated from Biogen presentation 2021) or Cohen's d or Modelled Standardized Mean (AChE inhibitors: Rockwood 2004)