

## The Hon. Greg Hunt MP Minister for Health

## MEDIA RELEASE

18 January 2018

## More support for Australia's world-class medical researchers

The Turnbull Government is today announcing new grant funding of almost \$12 million to provide further support for Australia's world-class medical researchers.

I am delighted to visit the Murdoch Children's Research Institute to announce support for research that will offer new hope for people living with rare ataxia diseases.

Ataxia is a rare and debilitating disease which affects a person's ability to walk, talk and use fine motor skills. Symptoms include a lack of coordination, slurred speech, difficulty eating and swallowing, eye movement abnormalities, trouble walking, gait abnormalities, tremors and heart problems.

Many people with ataxia may eventually be permanently confined to a wheelchair and in later stages be permanently incapacitated.

As part of the Turnbull Government's Medical Research Future Fund (MRFF), a new \$1.7 million grant will allow researchers at the Murdoch Children's Research Institute and the University of Melbourne to conduct separate trials into the benefits of rehabilitation.

The Murdoch Children's Research Institute will trial the effectiveness of rehabilitation for hereditary ataxias – which no medication is proven to benefit – to help sufferers perform the basic tasks needed to maintain their independence.

For those people with difficulty speaking, the University of Melbourne trial will evaluate whether intensive, home-based speech therapy can improve symptoms.

These two trials are the first to receive support through the MRFF's *Lifting Clinical Trials and Registries Capacity* (LCTRC) program, which supports researchers trying to find new treatments and cures for rare diseases and cancers.

And in a further boost for ataxia research, Dr Louise Corben from the Murdoch Children's Research Institute will also receive a \$431,000 grant.

This funding will support Dr Corben's study into the use of brain stimulation to improve coordination and function in people with Friedreich ataxia – a disease which often shortens life expectancy due to severe heart diseases.

Dr Corben is one of 21 recipients of 2018 Medical Research Future Fund *Next Generation Researchers* fellowships which are also being announced today. They will share in \$10 million to further their work across a wide range of research subjects. Research includes tackling poor outcomes for patients with acute myeloid leukaemia, treating methamphetamine addiction, managing staphylococcal infections and improving treatment for depression.

These fellowships fund Australia's next generation of clinical researchers to ensure the best and brightest minds are supported today to make the breakthroughs of tomorrow.

The grants announced today are a further demonstration of the Turnbull Government's unprecedented commitment to health and medical research.

(ENDS)

Next Generation Researchers fellowships:
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Researcher/	Project/
Institute/	Summary (from researcher)
Funding	
Professor Elizabeth	Improving health outcomes for disadvantaged children
Elliott	
	I am a paediatrician researcher dedicated to improving health and quality of life for ill and
University of	disadvantaged children. The focus of my Fellowship will be research in three areas: rare
Sydney	childhood diseases, fetal alcohol spectrum disorder, and vaccine-preventable disease, with
	attention to diagnosis, treatment and prevention. Alignment of my research and clinical work
\$577,188	and my experience in evidence-based medicine will facilitate adoption of my research into
	clinical care and health policy.
Professor	Discovery to therapy implementation in acute stroke
Christopher Levi	
	Advances in acute stroke therapies are occurring rapidly but challenges remain in their safe
The University of	and effective delivery to stroke sufferers. This research focuses on testing a potentially
Newcastle	superior 'clot busting' drug therapy for acute stroke and on identifying reasons why one of the
	most widely used current therapies carries a risk of significant harm due to bleeding into the
\$577,188	brain. The work also investigates how to better implement the newest form of acute therapy,
	mechanical blood clot extraction.
Professor Y C Gary	Translational Research on Malignant Pleural Effusion and Pleural Infection
Lee	
	I am a leading researcher in pleural effusions (fluid build-up in the chest) from cancer and
University of	infection. I run a multicentre clinical trial team to answer important questions directly relevant
Western Australia	to patient care, as well as a lab research group with proven record of discovery new treatment
¢ 401 155	targets. This fellowship will capitalize on platforms I have built and determine best approach
\$481,155	to remove effusions, understand etiologic roles of the fluid ultimately to find ways to stop fluid from forming.
Professor	Improving outcomes in osteoporosis and bone health
Jacqueline Center	Improving outcomes in osteoporosis and bone nearth
Jacqueinie Center	Osteoporotic fractures are a common and increasing problem as the population ages. They are
The Garvan	associated with increased risk of re-fracture and early death yet most patients remain
Institute of Medical	untreated. This proposal will identify which fracture patients are at highest risk of re-fracture
Research	and premature death (b) identify whether osteoporosis treatment decreases this risk and (c)
	increase osteoporosis awareness and treatment uptake by general practitioners with an
\$343,682	integrated fracture risk prediction tool.
Professor Helena	Generating and translating evidence into practice in womens health and beyond
Teede	
	Obesity is increasing with major reproductive and metabolic health impacts for women and
Monash University	the next generation. This fellowship focuses on prevention of obesity and optimal diagnosis
	and management of obesity related reproductive and metabolic conditions in women including
\$494,733	before and during pregnancy. Translation is vital to deliver health benefits from research.
	Here Prof Teede will generate new evidence and translate this into practice in women's health
	and beyond to deliver tangible impact.
Professor Peter	Optimising Emergency and Trauma Systems through evidence based pathways
Cameron	
Manach II.	Developing systems for emergency and trauma care based on strong evidence and robust data
Monash University	systems is crucial to the acute health sector. Through an extensive, well recognised
\$412 277	collaboration of research groups at The Alfred, Monash and the National Trauma Research Institute, we aim to undertake world leading systems development both locally and globally,
\$412,277	focusing on prehospital, emergency and trauma clinical care pathways significantly reducing
	mortality and improving functional outcomes.
	moranty and improving functional outcomes.

Associate Professor	Translational Research Program to Advance Clinical Outcomes in Acute Myeloid Leukaemia
Andrew Wei	Five-year survival in acute myeloid leukaemia (AML) is only 27%, placing it amongst the
Monash University	worst-ranked cancers for clinical outcome. Improved patient outcomes will be achieved
intendent entretering	through implementation of a Translational Research Program to support novel agent drug
\$412,419	testing, early-phase and randomised clinical trials and a national clinical registry to audit
	outcomes. New insights into leukaemic stem cell function and mechanisms of drug resistance will inform the design of future clinical trials.
Associate Professor	Mild traumatic brain injury and the risk of long-term neurodegenerative and neurobehavioural
Paul McCrory	disease
Florey Institute of	Considerable media attention surrounds the potential for long-term problems in individuals
Neuroscience and	with high exposure to head impacts such as seen in sporting, civilian and/or military contexts.
Mental Health	This study examines the long-term effects of mild traumatic brain injury (mTBI) and helps
	close the current knowledge gap of the impact of this disorder on individuals. There are no
\$577,188	long term trials to answer the critical question of whether mild TBI causes long term problems
<b>D</b>	in the brain.
Professor Alexander	Elimination of HCV as a Public Health Threat
Thompson	This Practitioner Fellowship will support studies that will contribute directly to the efforts to
rnompson	eliminate HCV infection from Australia. The research program aims to reduce transmission of
University of	HCV infection by evaluating the best models of care for i) engaging and treating high risk
Melbourne	individuals with HCV infection, including people who inject drugs and prisoners, ii)
	preventing reinfection with HCV, and iii) re-treatment of individuals who fail treatment due to
\$481,155	drug resistance.
Professor Bala Venkatesh	Sepsis Outcomes Research
VEIIKAIESII	Sepsis is a major cause of hospitalization and ICU admission in Australia population
The George	corresponding to more than 15,700 new cases each year. Every year more than 3,000 people
Institute for Global	die from sepsis in Australia which is greater than the annual national road toll and breast,
Health	prostate or colorectal cancer. The research outlined in this proposal to study the effect of
<b>#274</b> 046	steroids and vitamin D to improve patient's recovery from sepsis and also understand the
\$274,946 Assistant Professor	genetic basis behind their ability to survive sepsis. Neuroimaging in mental health: the quest for clinically useful biomarkers
Lianne Schmaal	Neuroimaging in mentar nearth, the quest for chinicarry userul biomarkers
Liunite Senniuur	To ultimately improve treatment of mental illness, this research program aims to detect robust
University of	and reliable neuroimaging markers that are associated with affective disorders by pooling data
Melbourne	from many samples across the world. Moreover, this research aims to develop alternative
\$421,000	biological-based classifications of mental illness in young people, and evaluate their clinical
\$431,000 Associate Professor	value by examining their predictive value for treatment response and disease course. Cognitive Phenotyping and Personalised Treatment for Methamphetamine Addiction
Antonio Verdejo-	Cognitive Thenotyping and Tersonansed Treatment for Methamphetannic Addiction
Garcia	Prevention and treatment of addiction to stimulants such as methamphetamine is imperative
	for community health and safety. This fellowship will enable me to apply my expertise in
Monash University	impulsivity and addiction to identify people at risk of increasing methamphetamine use and to
\$476,728	develop and evaluate cognitive training therapies that will empower people with methamphetamine related problems to control their drug use. Outcomes include a risk
φτ/0,/20	identification and triage tool and three novel therapies.
Doctor David	Significance of low-level mosaicism to intellectual disability in paediatric disorders
Godler	
	My vision for the next 4 years is to improve outcomes for children and their families with
Murdoch Childrens	inherited disorders associated with intellectual disability (ID) and autism through earlier diagnosis and intervention. This is a fareat importance with annual costs of ID close \$14,72
Research Institute	diagnosis and intervention. This is of great importance with annual costs of ID close \$14.72 billion to the Australian health system, and missed or delayed diagnoses being a significant
\$476,728	problem, as ID is found in 1.7% of births, where a specific cause is currently identified in less
	than half.
Associate Professor	Examining new treatments and developing new treatment biomarkers for youth with severe
Christopher Davey	depression
I Iniversity of	Antidepressent mediactions and north the same have been the metion to a Columnation
University of Melbourne	Antidepressant medications and psychotherapy have been the mainstays of depression treatment in young people, but given their modest effectiveness, there is a pressing need for
wieloouille	new treatment strategies. During this fellowship I aim to examine better treatments for
\$333,709	depression, and develop better predictors about who is likely to benefit from them.
Doctor Donna	Improving outcomes in low back pain: Targeting specific therapies to patient subgroups
Urquhart	
Managh Linimait	Low back pain is a major health problem worldwide. There is a lack of effective treatments
Monash University	and a "one size fits all" approach to treatment is being used. This innovative research program

\$429,055	aims to change the way back pain is treated, by identifying specific types of back pain, determining the effectiveness of treatments for these types of back pain, and translating a targeted approach to management into clinical practice to improve the health of individuals
	with back pain.
Doctor Louise	Improving upper limb function in Hereditary Cerebellar Ataxia
Corben	
Murdoch Childrens Research Institute	Friedreich ataxia (FRDA) causes in-coordination and muscle weakness which may result in the affected person being unable to walk or use their arms effectively. In-coordination is a result of destruction of nerves in the spine and the area of the brain that controls movement (cerebellum). This study will assess the use of brain stimulation to improve coordination and
\$431,000	function in people with FRDA. The results of this study may also result in treatments for similar inherited cerebellar ataxias.
Associate Professor Steven Tong	Optimising interventions for Staphylococcus aureus and skin infections
	Staphylococcal and streptococcal infections are major causes of illness and death, particularly
University of	in Indigenous Australians. These include invasive bloodstream infections and skin infections
Melbourne	that lead to chronic kidney and heart disease. I will conduct clinical trials to optimise the
\$333,709	management of staphylococcal bloodstream infections using novel trial methods, and use genomics and mathematical modelling to understand and reduce the burden of skin infections in Indigenous communities.
Doctor Jill Newby	Improving internet-delivered psychological therapies for depression and anxiety
2	
University of New	Depression and anxiety affect 3 million Australians. While effective psychological treatments
South Wales	exist, even the best only help 50% recover, and relapse is common. My research aims to
	improve the treatment of adult depression and anxiety, through developing more effective,
\$431,000	efficient and accessible internet-delivered psychological therapies and identifying the
ψ131,000	conditions that promote optimal long-term outcomes.
Doctor Saurabh	Role of Non-Invasive Imaging using Speckle Tracking Echocardiography in the Identification
Kumar	and Treatment of Patients At Risk of Arrhythmias and Consequent Sudden Cardiac Arrest
Kumu	and Treatment of Fatients At Risk of Annythings and Consequent Sudden Cardiae Arrest
Western Sydney	Every year, 15,000 Australians die from sudden cardiac arrest. Identifying individuals at risk
Local Health	is a major challenge. We will investigate whether a heart ultrasound technique called speckle
District	tracking allows clinicians to rapidly identify changes in heart muscle that are associated with
District	cardiac arrest. If found to be positive, the technique may be broadly applied to large
\$431,000	populations, identifying at risk individuals, potentially rescuing them before cardiac arrest
ψ-51,000	occurs.
Doctor Dawn	Improving musculoskeletal pain by matching the right treatment with the right patient
Aitken	improving indsedioskeletar pair by matering the right treatment with the right patient
AIIKUI	Musculoskeletal pain is common, disabling, and costly in Australia. Current treatment options
University of	are poor. This program of research uses clinical trials to investigate new therapy options for
Tasmania	osteoarthritis and chronic low back pain. These studies aim to provide new effective treatment
1 asiliailla	options for patients that can improve pain, slow joint damage and decrease the overall burden
\$431,000	of musculoskeletal disease.
Doctor Dominik	Sleep apnea and atrial fibrillation
Linz	
LIIIZ	Atrial fibrillation (AT) is the most common systemed carding rhythm disorder. Obstructive
The University of	Atrial fibrillation (AF) is the most common sustained cardiac rhythm disorder. Obstructive shape $(OSA)$ is four times more common among noticets with AE then without $OSA$
The University of	sleep apnea (OSA), is four times more common among patients with AF than without. OSA
Adelaide	has been associated with a greater recurrence rate of AF after initially successful treatment of
¢ 421.000	AF and treatment of OSA reduces recurrence of AF. To identify the underlying mechanisms,
\$431,000	we aim to determine effects of OSA on atrial electrical activation and to characterize sleep
	apnea in AF patients in a more precise way.
Associate Professor	Understanding and optimising the delivery of chronic disease care for better cardiovascular
Meg Jardine	outcomes
University of New	The proposed research program will undertake research that utilises existing clinical
South Wales	information and structures. This information will provide evidence in a cost effective manner.
	A particular project will examine current treatment delivered to people with chronic disease.
\$476,728	A second project will embed a study of the optimum level of sodium exposure in dialysis
	within routine clinical practice. The outcome will be a cost-efficient study that will potentially
	lead to improve outcomes.
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