



**Australian Government**

**National Health and Medical Research Council**

## Postgraduate Scholarships for funding commencing in 2021

The Postgraduate Scholarship scheme provides funding for successful applicants to attain a research based postgraduate degree (Doctor of Philosophy or Research Masters degree).

The aim of the Postgraduate Scholarship scheme is to support outstanding health and medical graduates to be trained to conduct research that is internationally competitive, and develop a capacity for original independent research within Australia.

Postgraduate Scholarships are very competitive and offered to a limited number of graduates of outstanding ability who wish to make research a significant component of their career. This year NHMRC received 219 Postgraduate Scholarship applications of which 64 were successful.

The applications listed in the table below have been approved for funding by the Minister for Health, the Hon Greg Hunt MP.

App ID	Chief Investigator Name	Application Title	Administering Institution	Budget
APP2002573	Doctor Kevin Cheng	The effect of Statin and Colchicine on pericoronary adipose tissue inflammation and coronary artery plaque progression: insights from cardiac computed tomography using pericoronary adipose tissue attenuation and radiomics	Monash University	\$125,396.17
APP2002611	Doctor James Kuzich	Molecular barcoding to understand clonal dynamics in the initiation, maintenance and progression of acute myeloid leukemia (AML) at single cell resolution	University of Melbourne	\$132,743.00
APP2002670	Doctor Lucy Attwood	Optimising management of injection-related infections in people who inject drugs	Monash University	\$132,743.00



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APP2002671	Doctor Madhuni Herath	Optimising osteoporosis management in young adults	Monash University	\$132,743.00
APP2002673	Doctor Karrnan Pathmanandavel	Identifying the molecular basis of memory B cell function and human immunoglobulin E memory via Hyper Immunoglobulin E Syndromes	University of New South Wales	\$96,008.83
APP2002708	Doctor Angelos Sharobeam	Ischaemic stroke and Atrial Fibrillation: development of a novel artificial intelligence system using Magnetic Resonance Imaging	University of Melbourne	\$92,335.42
APP2002728	Doctor Christopher Yu	NHMRC PhD scholarship application	University of Sydney	\$129,069.58
APP2002759	Doctor James Nadel	Examining the role of extracellular myeloperoxidase in the pathogenesis, identification and treatment of high-risk unstable and ruptured atherosclerotic plaque	University of New South Wales	\$103,355.67
APP2002783	Doctor Tejas Deshmukh	Cardiac matrix modulation by Platelet Derived Growth Factor to improve outcomes after myocardial infarction	University of Sydney	\$96,008.83
APP2002792	Doctor Asma Sohail	Improving epidemiological assessment for the prevention of travel-related infectious diseases	Monash University	\$132,743.00
APP2002911	Doctor Joshua Hawson	Novel multi-modality assessment of arrhythmic risk and disease progression in repaired Tetralogy of Fallot undergoing Redo-Pulmonary Valve Surgery Using 4D cardiac MRI flow and high density 3D electro-anatomical mapping	Melbourne Health	\$110,702.50



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APP2002981	Mr Ming Chai	The use of dosing software with Bayesian forecasting to improve antimicrobial-plasma concentrations in the Intensive Care Unit	The University of Queensland	\$77,422.00
APP2003047	Doctor Louise Segan	CAMERA-MRI II: Catheter Ablation versus Medical Rate Control in Atrial Fibrillation with Systolic Heart Failure and Myocardial Fibrosis - an MRI guided Multi-Centre Randomised Controlled Trial	Baker Heart and Diabetes Institute	\$132,743.00
APP2003083	Doctor Luke Dawson	Feasibility of using pre-hospital point-of-care troponin and paramedic risk assessment in patients with chest pain without ST-elevation	Monash University	\$132,743.00
APP2003179	Mr Steven Phu	Mechanisms underlying adaptation to reactive balance training for falls prevention	University of New South Wales	\$83,832.17
APP2003334	Mr Andrew Collaro	Reference values for spirometry, lung volumes, diffusing capacity, and fractional exhaled nitric oxide in First Nations Australians	Queensland University of Technology	\$83,832.17
APP2003449	Ms Emily Andrew	Delivering safe and timely prehospital care	Monash University	\$63,720.83
APP2003939	Doctor Brendan Nolan	Safety and quality of life of peri-operative transdermal estradiol continuation during gender affirmation surgery in transgender women: a randomised placebo-controlled trial	University of Melbourne	\$92,335.42
APP2003944	Doctor Jason Bloom	Evaluation of optimal pharmacologic haemodynamic support strategies in patients presenting with shock	Baker Heart and Diabetes Institute	\$132,743.00



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APP2004997	Doctor Alexandra Murphy	SMARTphone-based cardiovascular risk reduction in breast cancer patients	Institute for Breathing and Sleep	\$88,662.00
APP2005172	Doctor Sophie Offen	Anatomy, epidemiology and aetiology of tricuspid valve disease and its impact on the development of emerging transcatheter therapies	University of Sydney	\$88,662.00
APP2005173	Doctor Georgina Irish	Decision making in Kidney Transplantation	The University of Adelaide	\$99,682.25
APP2005174	Doctor Benjamin Lazarus	Risks of using a central venous catheter for haemodialysis in Australia and opportunities for improvement	Monash University	\$132,743.00
APP2005187	Doctor Sarah Lynar	Improving microvascular dysfunction in falciparum malaria	Menzies School of Health Research	\$132,743.00
APP2005188	Doctor Hiep Pham	The Next Generation of Impact in Cystic Fibrosis - Adolescent Mental Health and Beyond	Murdoch Children's Research Institute	\$76,365.00
APP2005195	Doctor Asha Bonney	Lung cancer screening with low dose computed tomography (LDCT); exploring opportunities to optimise disease prevention across a range of health outcomes in Australia	Melbourne Health	\$132,743.00
APP2005218	Doctor Christina Kozul	Developing microenvironment-based prognostic biomarkers for early breast cancer	University of Melbourne	\$132,743.00
APP2005237	Doctor Jonathan Pham	Investigating the impact of ethnicity on asthma: determining risk factors, modifiers, clinical phenotypes, and differential	University of Melbourne	\$125,396.17



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		response to treatment		
APP2005243	Doctor David Prince	Improving clinical care in patients with cirrhosis	Centenary Institute of Cancer Medicine and Cell Biology	\$132,743.00
APP2005244	Ms Tess Cooper	Understanding the interplay between the gut-kidney axis in people with chronic kidney disease	University of Sydney	\$63,720.83
APP2005245	Doctor Kate Rassie	Breastfeeding in women with polycystic ovarian syndrome, gestational diabetes, and pre-existing diabetes: hormonal physiology, breastmilk composition, epidemiology and patient factors	Monash University	\$132,743.00
APP2005253	Doctor Prachi Bhawe	Personalised treatment in melanoma: matching optimal drug therapies for individual patients to improve survival	University of Sydney	\$132,743.00
APP2005257	Ms Erin Crellin	Investigating stakeholder experiences in implementing and adopting genome sequencing in paediatric clinical practice	Murdoch Children's Research Institute	\$91,538.00
APP2005259	Ms Ximena Camacho	Leveraging big data to assess medicines safety in Australia	University of New South Wales	\$91,538.00
APP2005277	Ms Joyce Cleary	Developing an early life-course population mental health monitoring system	Deakin University	\$68,778.50
APP2005279	Doctor Elyssia Bourke	Management of paediatric acute severe behavioural disturbance in the emergency department	Murdoch Children's Research Institute	\$114,375.92
APP2005280	Doctor Chinthaka Samaranayake	Risk stratification and early interventions in pulmonary	The University of Queensland	\$99,682.25



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		vascular disease: from acute pulmonary embolisms to chronic pulmonary hypertension		
APP2005293	Doctor Ahmed Al-Kaisey	Mapping the 3-dimensional structure of the human atria	Melbourne Health	\$61,192.00
APP2005294	Mr Natansh Deepak Modi	Big data to inform the impact of antibiotics and proton pump inhibitors on immunotherapies used to treat lung cancer	Flinders University	\$115,883.00
APP2005299	Mr Cameron Dickson	Advancing physiotherapy management of chronic pain by improving implementation of evidence-based practice	University of South Australia	\$115,883.00
APP2005300	Doctor Annabelle Warren	Open-label randomised trial of Tolvaptan versus fluid restriction in hospitalised patients with moderate-severe hyponatraemia	University of Melbourne	\$132,743.00
APP2005303	Doctor Geoffrey Wigmore	20% Human Albumin Solution FLuid Bolus Administration TheRapy in Patients after Cardiac Surgery-II (HAS FLAIR-II)	University of Melbourne	\$125,396.17
APP2005316	Doctor James Marangou	The Two Hearts Beat Study: determining the benefits and barriers of echocardiographic screening in pregnancy for Indigenous women in the Top End of the Northern Territory	Menzies School of Health Research	\$132,743.00
APP2005317	Miss Carmen Lim	What can we learn about cannabis vaping through the Internet?	The University of Queensland	\$61,192.00
APP2005334	Doctor Katie Cronin	Improving long-term mortality rates following sepsis.	Monash University	\$99,682.25
APP2005351	Miss Aleysha Martin		The University of Queensland	\$106,267.75



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		Transdisciplinary stroke assessment: can it improve allied health efficiency and care on an acute stroke unit?		
APP2005366	Ms Yukiko Ezure	Using novel causal inference approaches to improve decision-making in infectious diseases epidemiology	The University of Queensland	\$76,365.00
APP2005367	Ms Natalie Govind	Improving palliative care for people after acute stroke	University of Technology Sydney	\$96,652.50
APP2005380	Doctor Eloise Williams	Design and implementation of a human challenge model for <i>Neisseria gonorrhoeae</i>	University of Melbourne	\$132,743.00
APP2005390	Doctor Shaun Yo	Invasive cardiopulmonary exercise testing for the evaluation of unexplained and complex multifactorial BREATHlessnEss (i-BREATHE)	Monash University	\$132,743.00
APP2005394	Doctor Jane Thompson	Iron overload mechanisms in dyserythropoietic anaemias and therapeutic targets at the ERFE gene locus	The Walter and Eliza Hall Institute of Medical Research	\$132,743.00
APP2005397	Doctor William Garvey	Improving outcomes for children with emotional and behavioural difficulties through a school-based intervention: a pilot randomised controlled trial.	Murdoch Children's Research Institute	\$88,662.00
APP2005398	Ms Ingrid Stacey	Investigating the progression and complications of Acute Rheumatic Fever and Rheumatic Heart Disease: a multi-jurisdictional linked data study	University of Western Australia	\$89,009.17
APP2005401	Doctor Michelle Gooley	Bridging the Gap: translating childhood obesity prevention policy into clinical practice	Monash University	\$132,743.00



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APP2005412	Doctor Kunal Verma	Early detection of coronary artery disease: an opportunity to start secondary prevention without a coronary event	Baker Heart and Diabetes Institute	\$132,743.00
APP2005418	Ms Carol El-Hayek	Application of machine learning techniques to disease surveillance to identify risk groups for blood borne viruses and sexually transmissible infections	Burnet Institute	\$76,365.00
APP2005422	Ms Emogene Aldridge	Improving CPR quality by optimising the language used in CPR instructions	Monash University	\$76,365.00
APP2005447	Doctor Rudy Lopes	The impact of the COVID-19 pandemic on sexual and reproductive health services and outcomes in the Pacific Islands and territories	Burnet Institute	\$110,702.50
APP2005457	Ms Dominique Favell	The use of real-world evidence to support regulatory and reimbursement decisions	University of New South Wales	\$91,538.00
APP2005458	Doctor Natalie Tan	For every question, there is an answer: application of genomic sequencing and functional genomics for disease gene discovery in children with orphan phenotypes	Murdoch Children's Research Institute	\$99,682.25
APP2005468	Doctor Abhijit Pal	Enhancing communication between medical oncologists and patients with advanced malignancy considering clinical trial participation, with a focus on CALD populations	University of Sydney	\$92,335.42
APP2005469	Doctor Paula Loveland	NOvel Biomarkers of LEWY body dementia (NOBLE)	The Walter and Eliza Hall Institute of Medical Research	\$132,743.00





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APP2005470	Doctor Hannah Morgan	Protocol development for study design and analysis in HIV latency research	University of Sydney	\$73,836.17
APP2005473	Doctor Ryan Jalleh	Understanding the relationship of incretin hormones, gastric emptying and reactive hypoglycaemia	The University of Adelaide	\$132,743.00
			<b>Total</b>	<b>\$6,872,518.69</b>