



Research Report 2020



NeuRA

Discover. Conquer. Cure.

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NEURA SUMMARY

Our Vision & Mission

“Our vision is to prevent and cure disease and disability of the brain and nervous system through leadership, excellence and innovation in neuroscience research.”

About Us

NeuRA (Neuroscience Research Australia) is an independent, not-for-profit, medical research institute and one of the largest centres of research on the brain and nervous system in Australia. Based in Randwick, Sydney, NeuRA is recognised as an international leader in research, changing the face of research into diseases and disorders of the brain and nervous system, not just in Australia, but around the world. Our eminent neuroscientists, clinicians and outstanding research leaders relate laboratory-based research to clinical research involving patients to ensure that our discoveries are translated into health benefits for people as soon as possible. The institute hosts 300 staff and students in 34 neuroscience research teams spread across five broad themes. NeuRA is affiliated with the University of New South Wales and South Eastern Sydney Local Health District.

Our Values

Excellence, Innovation, Human Impact, Respect, Integrity, Collaboration

<i>Excellence</i>	We aspire to excellence in research
<i>Innovation</i>	We value inquiring minds and innovation
<i>Human Impact</i>	We strive for meaningful and human health impacts and outcomes
<i>Respect</i>	We respect, trust and care for each other
<i>Integrity</i>	We stand for integrity and accountability in all we do
<i>Collaboration</i>	We build long lasting collaborative relationships

Our Name

<i>Neuroscience</i>	The science of the brain and nervous system. It is our focus, expertise and dedication.
<i>Research</i>	Our passion is to understand how the brain and nervous system work. Our brain controls our thoughts, feelings and mobility. It powers the electrical system that controls our heart beat, our ability to work, breathe and swallow. But these can be stolen by disease, mental illness and injury. The solutions will only be found through medical research. Research provides the power to cure.
<i>Australia</i>	Our position in the global research environment. Our research is for Australia because it impacts all Australians, directly and indirectly.

Our Research

The focus of NeuRA's work has always been on neuroscience. Our research portfolio includes both clinical and laboratory research into neurological, psychiatric and psychological disorders. Our research activity is organised into five themes:

<i>Ageing & Neurodegeneration:</i>	Alzheimer's disease and other dementias, Parkinson's disease, Motor Neurone Disease, ageing research in indigenous populations
<i>Brain Structure & Function:</i>	Brain mapping for research and clinical use, biochemical and structural bases of brain function, development of MRI methods
<i>Neural Injury:</i>	Spinal cord injury, assessment and prevention of road trauma
<i>Mental Illness:</i>	Schizophrenia, bipolar disorder, depression and resilience
<i>Sensation, Movement, Balance & Falls:</i>	Human movement, fatigue, sleep apnoea, balance and vision, neural control of muscles, falls in older adults, chronic pain

Leadership

Professor Peter R Schofield AO FAHMS PhD DSc has been the CEO of Neuroscience Research Australia since 2004. Professor Simon Gandevia MD PhD DSc FAA FAHMS FRACP is Deputy Director and was one of four founding scientists. Dr Kate Johnston PhD MBA is Chief Operating Office. Ms Carole Renouf is Executive Director of the NeuRA Foundation and Professor Kaarin Anstey PhD is Chair of the Research Committee.

Governance

Neuroscience Research Australia (NeuRA) is the not-for-profit company that was incorporated on 4 November 1991 to govern the institute. The company was founded by the University of New South Wales and the then Eastern Sydney Area Health Service now called the South Eastern Sydney Local Health District. The Board comprises up to 14 directors, with two nominees each from the founding stakeholders plus one nominee of the NSW Minister for Medical Research. There are up to eight independent directors. The directors are also the sole members of the company. The Board meets bimonthly.

The Mindgardens Alliance Establishment Agreement was signed on 22 December 2017 and was passed by board resolution on 8 February 2018, in which NeuRA became both a member of Mindgardens and offered itself as the corporate entity to manage the Alliance. As a consequence, seven directors resigned and were replaced with seven new directors. The aim of the Alliance is to build a world class, internationally recognised, research collaboration, based on the complementary skills and capacity of the Alliance members, UNSW Sydney, South Eastern Sydney Local Health District, Black Dog Institute and Neuroscience Research Australia. Mindgardens is in the process of establishing itself as an independent company, upon which time the Board will return to its governance role of NeuRA alone.

The Board comprises up to 14 directors. There are two nominees each from the founding stakeholders, the University of New South Wales and the South Eastern Sydney Local Health District, plus one nominee of the NSW Minister for Medical Research. There are eight positions for independent directors. The Chairman is John Grill, AO BSc BE(Hons) Hon DEng, Chairman of Worley Limited. The directors are also the sole members of the company. The Board meets bimonthly. As part of the establishment of the Mindgardens Alliance, the NeuRA Governing Council was established as a committee of the Board to oversee the operations of the NeuRA Division and is chaired by the Hon Justice Anna Katzman BA(Hons) LLB, Hon LLD, a Federal Court Judge and the Deputy Chair is Ms Alice Kase BBus FCA FTIA CTA, a partner at PwC.

The NeuRA Foundation was established in 2007 to enhance philanthropic fundraising to underpin the activities of the institute and to aid NeuRA achieving its objects. The Chair of the Foundation Board is Mr Norbert Schweizer OAM, BA LLB a Partner at Schweizer Kobras.

Funding

NeuRA attracts competitive external grant funding from national and international organisations, infrastructure funds from state and federal governments and substantial philanthropic support. Total peer-reviewed funds for the 2020 calendar year from 192 active grants from 53 funding bodies, totalled \$23.8 million. The most significant funding body is the NHMRC which awarded \$17.38 million in 2020. This includes 14 Research and Postdoctoral Fellowships, 35 Research and Targeted Grants, 4 Centres of Research Excellence, 2 Postgraduate Scholarships and involved in 4 Partnerships Grants. The Medical Research Future Fund awarded \$3.68 million in 2020 through involvement in 6 translational projects and the Australian Research Council awarded \$0.9 million in 2020 through involvement in 1 Fellowship, 2 Centres of Excellence, 1 Industrial Transformation Training Centre and 7 Project Grants.

Through the NSW Government's Medical Research Support Program, NeuRA secured \$4.1 million in 2020. NeuRA also received \$2.8 million in 2020 from UNSW for research infrastructure.

The NeuRA Foundation raised \$6.1 million in philanthropic support in 2020. To date, it has raised \$64 million.

Total income in 2020 was \$36.8 million and operational expenditure was \$30.6 million.

Our Facilities

The Margarete Ainsworth Building was completed in December 2012 and was officially opened on 23 July 2013 by Health Ministers Tanya Plibersek and Jillian Skinner. Funding of over \$74 million was secured for this project - \$36 million from the Federal Government and \$16 million from the State Government, in addition to \$22 million from donors and philanthropic organisations. The Margarete Ainsworth Building provides 8,165m² of purpose-built research and support space, which combined with the research space of 4,075m² in the Villas provides a total of \$12,240m² of dedicated research facilities.

NeuRA houses several specialised research facilities, including the Sydney Brain Bank, the Transurban Road Safety Centre, NeuRA Imaging a 3T MRI imaging research facility, a 25m Gait lab, the Spinal Cord Injury Research Centre, several Research Volunteer Registries and dedicated mechanical and electrical workshops.

2020 AT A GLANCE

Research Studies



Studies moved fully or partially to telehealth delivery in 2020 due to COVID-19 restrictions



Clinical trials underway

Research Grants



50

Funding bodies supporting our research

75

New grants awarded in 2020

202

Active grants in 2020

Publications

351

Publications in 2020

42.9%

publications in top 10% of journals

80

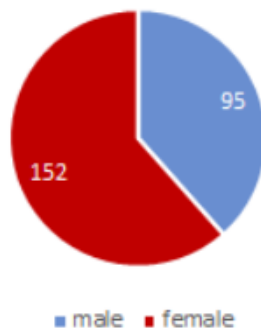
Number of countries citing publications

Our people

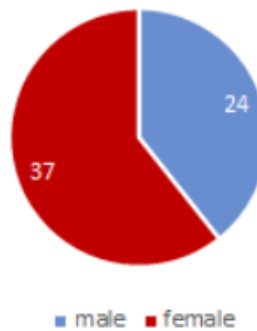
Our staff and students come from across the globe:



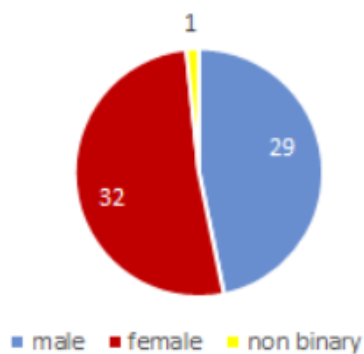
Research Staff



Operations/Support Staff



HDR Students



Prizes & Awards



2020 RESEARCH FUNDING

Summary information on competitive peer-reviewed research grants, fellowships and scholarships, and other sources of external research grant income, applied for and awarded for expenditure through the calendar year 2020:

National Health and Medical Research Council

Anstey K. Principal Research Fellowship (2016-2020), 2020 amount \$150,660

Anstey K, Lautenschlager N, Sachdev P, Cerin E, Shaw J, Cherbuin N, Ellis K, McCrae I, Clare L. Centre of Research Excellence in Cognitive Health: Evidence, intervention and population modelling, Centre of Research Excellence (2016-2020), 2020 amount \$159,926

Anstey K, Peters R, Lautenschlager N, Shaw J, Anderson C, Jorm L, Kiely K, Whitmer R, Matthews F, Kivipelto M. Translating the evidence on dementia risk reduction to generate assessments, advice and training for health professionals, policy makers, patients and public, Boosting Dementia Research Grant (2019-2023), *Administered by UNSW Psychology*

Anstey K, Wood J, Delbaere K, Bedard M, Brown J, Kiely K, Clare L, Lung T. Driving Longer and Better: Evidence-based interventions for older drivers, Project Grant (2019-2024), 2020 amount \$191,798

Anstey K. Self-management and HeAlth Promotion in early-stage dementia with E-learning for carers - A randomised controlled trial (SHAPE), Boosting Dementia Research Grant (2019-2021), 2020 amount \$254,772

Bilston LE, Burke P, McMullan S. A novel optical stimulation method for Obstructive Sleep Apnoea Treatment, Project Grant (2018-2020), 2020 amount \$142,326

Bilston L. Biomechanical factors in health and disease, Investigator Grant (2020-2024), 2020 amount \$295,606

Brodaty H, Valenzuela M, Sachdev P, McNeill J, Maeder A, Lautenschlager N, Jorm L, Fiore Singh M, Anstey K, Andrews G. Maintain our Brain, Dementia Research team Grant (2016-2020), 2020 amount \$1,125,227

Brodaty H, Anstey K, Beattie E. Dementia Centre for Research Collaboration (2018-2020), 2020 amount \$939,436

Brown J. Industry Career Development Fellowship Level 2 (2017-2020), 2020 amount \$117,536

Brown J, Bilston L, Keay L, Charlton J, Hayen A. Enhanced methods of communicating correct use of child car restraints: A controlled trial, Project Grant (2017-2020), 2020 amount \$254,163.60

Butcher K, Ooi S-Y, Lovell N, Delbaere K, Dong ZY, Celler B, Pearson S-A, Lung T, Liaw S-T, Yu J. Total Cardiac Care - STROKE: A randomised controlled trial of a comprehensive smartphone application-centric model of care to improve outcomes in stroke patients, Medical Research Future Fund (MRFF) (2020-2023), 2020 amount \$21,000

Butler J, Gandevia S, Hudson A, McKenzie D. How neural impairment affects respiratory motor function in chronic obstructive pulmonary disease and healthy ageing, Project Grant (2018-2021), 2020 amount \$213,063

Butler J. Senior Research Fellowship A (2019-2023), 2020 amount \$129,835

Cerin E, Franklin R, Anstey K, Sachdev P, Mavoa S, Knibbs L, Jalaludin B, Wu Y-T, Prina M, Baratt B. The impact of the Environment and Pollution On Cognitive Health (EPOCH): Building the knowledge base through international collaboration, International Collaboration (2020-2023), 2020 amount \$9,744

Close J, Harvey L, Harris I, Mitchell R. Identifying and addressing unwarranted clinical variation in hip fracture care to improve health outcomes, Project Grant (2019-2023), 2020 amount \$100,709

Delbaere K, Anstey K, Proudfoot J, Callisaya M, O'Dea B. A novel, technology-based program targeting physical, cognitive and mental well-being to maximise fall prevention in older people: an evidence-based multifactorial approach, Project Grant (2018-2021), 2020 amount \$331,147

Delbare K, Lord S, Clemson L, Close J, Howard K, Herbert R, Todd C. Engaging and supporting older people in fall prevention in the community: International implementation study, Partnership Project for Better Health (2018-2020), 2020 amount \$220,318

Delbaere K, Radford K, Anstey K, Garvey G, Draper B, Muru-Lanning M, Kerse N, Cumming R, Lung T, Lavrencic L. "StandingTall-with our Mob": A holistic approach towards active and healthy ageing, TCR Healthy Ageing of Aboriginal & Torres Strait Islander Peoples (2019-2024) 2020 amount \$34,208

Dobson A, Flicker L, Comans T, Waller M, Anstey K, Almeida O, Nguyen K-H, Muniz Terrera G. Improving Australia's Dementia Statistics, Boosting Dementia Research Grant (2019-2021), *Administered by The University of Queensland*

Eades S, Banks E, Anstey K, Carrington M, McAullay D, Kalter-Leibovici O, Joshy G, Nelson L, Agostino J, Page E. Multifactorial, multidisciplinary nurse led Aboriginal dementia prevention through cardio-metabolic risk reduction, behaviour change and other strategies: a pragmatic RCT, NHMRC Targeted Call (2018-2023), *Administered by University of Melbourne and UNSW*

Fullerton J, Green M, Schofield P, Toma C. A multifaceted approach to the pharmacogenomic signatures of bipolar disorder for improving treatment outcomes, Medical Research Future Fund (MRFF) (2020-2022), 2020 amount \$609,884

Gandevia SC. Senior Principal Research Fellowship + SEO (2015-2020), 2020 amount \$197,843

Gatt J, Turner R, Williams L. Neural trajectories towards vulnerability versus resilience: A longitudinal twin study Project Grant (2017-2021), 2020 amount \$206,408

Green M, Carr V, Katz I, Laurens K, Neil A. Achieving better mental health for maltreated children: translating population data into policy, Partnership Projects (2017-2020), *Administered by UNSW*

Green M, Carr V, Laurens K, Dean K, Badcock J. Developmental schizotypy in the general population: Early risk factors and predictive utility, Project Grant (2018-2022), *Administered by UNSW, School of Psychiatry*

Grunstein R, D'Rozario A, Phillips C, Wong K, Hoyos C, Naismith S, Vakulin A, Eckert D. "Local Sleep" in the Awake Brain: An Underlying Cause of Neurobehavioural Deficits in Sleep Apnea?, Project Grant (2018-2020), *Administered by The Woolcock Institute*

Halliday G, Hodges J, Lewis S, Piguet O, Kril J, Kwok J, Villemagne V, Kiernan M, Rowe D, McKeith I. Non-Alzheimer's disease degenerative dementias: Identifying prodromal genetic/familial phenotypes, modifying factors, and protein variations involved in progression, Dementia Research Teams Grants (2015-2020), 2020 sub award amount \$96,560

Harvey L, Herbert R, Taylor V, Stephen J, Cameron I, Hossain M. CIVIC: A randomised trial of a low-cost, community-based model of care to prevent serious complications and premature death after spinal cord injury in Bangladesh, Project Grant (2015-2020), Administered by the University of Sydney

Herbert R. Principal Research Fellowship (PRF) (2017-2021), 2020 amount \$167,769

Herbert R, Novak I, Rae C, Warton D, Bolsterlee B, Morgan C, Cerebral Palsy Alliance. Muscle growth and muscle contracture in cerebral palsy, Project Grant (2019-2023), 2020 amount \$202,031

Karl T, Shannon Weickert C. Neuregulin 1 Type III Overexpression and Schizophrenia, Project Grant (2016-2020), *Administered by UNSW*

Kaur M. Peter Doherty Australian Biomedical Fellowship (2016-2020), 2020 amount \$41,475

Kirk E, Delatycki M, Pachter N, Laing N, Barlow-Stewart K, Schofield D, Farrar M, Bruno D, Lunke S, Beilby J, Davis M, Fietz M, Newson A, Amor D, Robson S, Emery J, Buckley M, Roscioli T, Braithwaite J, Massie J, Archibald A, Meldrum C, McGaughan J, Liebelt J, Lau C, Fletcher J, Colley A, Dunlop K, Shrestha R, Wilson M, Casella R, Casella J. The Australian Reproductive Carrier Screening Project (ARCSP) (known as 'Mackenzie's Mission'), Medical Research Future Fund (MRFF) (2018-2021) Administered by UNSW

LoGuidice D, Flicker L, Bessarab D, Wenitong M, Atkinson D, Smith K, Strivens E, Radford K, Thompson S. Let's CHAT (Community Health Approaches To) - Dementia in Indigenous Communities, Targeted Calls for Research (TCR) into Dementia in Indigenous Australians (2019-2023), 2020 amount \$10,000.00

LoGuidice D, Flicker L, Bessarab D, Atkinson D, Wenitong M, Thompson S, Smith K, Strivens E, Radford K. Improving Detection and management of dEmentia in older Aboriginal and Torres Strait Islanders attending Primary Care (IDEA-PC), Boosting Dementia Research Grants (2018-2020), 2020 amount \$86,871

Lord S. Senior Principal Research Fellowship (SPRF) (2017-2021), 2020 amount \$187,782

Maher C, Buchbinder R, Hancock M, O'Sullivan P, McAuley J, Blyth F, Jorm L, Collie A, McCaffery K, Hayes A. Low back pain centre for research excellence, Centre of Research Excellence (CRE) (2020-2024), Administered by the University of Sydney

Martins R, Anstey K, Naismith S, Baker L, Kivipelto M, Sohrabi H, Burhnam S, Villemagne V, Grieve S, Yates P. The Australian-multidomain Approach to Reduce dementia Risk by protecting brain health with lifestyle intervention (AU-ARROW), MRFF International Clinical Trials Scheme (2019-2023), *Administered by Macquarie University*

McAuley J, Gustin S, McLachlan A, Lamb S, Birbaumer N, Flor H, Lotze M, O'Connell N, Lee H. MEMOIR: A multi-national randomised factorial placebo-controlled trial with embedded mechanism evaluation of memantine and graded motor imagery for complex regional pain syndrome, Project Grant (2019-2022), 2020 amount \$854,209

McAuley J, Gustin S, Moseley L, McLachlan A, Wand B, Lamb S, O'Connell N, Lee H. MEMOIR: A multi-site placebo-controlled trial of memantine and graded motor imagery for complex regional pain syndrome, Medical Research Future Fund (MRFF) (2019-2022), *Administered by UNSW*

McCaughey E. Peter Doherty - Australian Biomedical Fellowship (2017-2020), 2020 amount \$79,692

Paxinos G. 3D Histological and MRI Atlases of Brain and Spinal Cord for Research and Clinical Practice, Research Fellowship SPRF (2018-2022), 2020 amount \$175,201

Paxinos G, Schira M. Caress the Detail: A Comprehensive MRI Atlas of the in Vivo Human Brain, Project Grant (2018-2020), 2020 amount \$63,663

Paxinos G, Kassem M. The Brain Reservoir: A freely available, living-digital-collection of exquisitely stained human and other animal brain tissue, Ideas Grant (2020-2022), 2020 amount \$97,128

Peters R, Tully P. Life-course blood pressure and cognition study (LCBP-COG), Project Grant (2019-2021), 2020 amount \$104,010

Radford K. Dementia Research Development Fellowships (2016-2020), 2020 amount \$6,971

Radford K, Broe G, Delbaere K, Draper B, Garvey G, Cumming R, Wright D, Fulham M, Piguet O, Sachdev P. Our MOB (Mind Our Brain): Dementia prevention across the life course with Aboriginal Australians, Target Calls for Research (TCR) into Dementia in Indigenous Aboriginal Australians (2018-2022), 2020 amount \$682,802

Roscioli T, Gecz J, Field M, Schofield D, Buckley M, North K, Dinger M. Transforming the diagnosis and management of severe neurocognitive disorders through genomics, Centres of Research Excellence (2017-2021), 2020 amount \$405,282

Roscioli T, McGillivray G, Colley A, Buckley M, Lunke S, North K, Meldrum C, Schofield D, Hyett J, Smoleniec J. PreGen: Filling the Gap - Antenatal Genomics and Newborn Care, Medical Research Future Fund (MRFF) (2020-2021), 2020 amount \$2,950,000

Rowe C, Sachdev P, Naismith S, Breakspear M, Brodaty H, Anstey K, Martins R, Ward S, Vickers J, Masters C. The Australian Dementia Network (ADNeT): Bringing together Australia's dementia stakeholders, Boosting Dementia Research Grants (PR3) (2018-2023), Administered by University of Melbourne

Schabrun S. Career Development Fellowship (CDF Level 1) (2016-2020), 2020 amount \$25,949

Schabrun S, Graven-Nielsen T, Seminowicz D. The physiological basis of motor adaptation in pain, Project Grant (2018-2022), 2020 amount \$106,571

Schofield D, Sue C, Roscioli T, Mattick J, Dinger M, Shreshta R, Buckley M, Davis R. The economic impact of providing precision medicine through whole genome sequencing, Partnership Project for Better Health (2018-2023), *Administered by Macquarie University*

Schofield P. Improving our understanding of the diagnosis, prevention and treatment of bipolar disorder, Investigator Grant (2020-2024), 2020 amount \$300,000

Shannon Weickert C. Neurobiology of schizophrenia and translation into new treatments, Reapplication with Promotion to Principal Research Fellowship (PRF) (2017-2021), 2020 amount \$152,769

Shannon Weickert C, Purves-Tyson T, Meyer U, Killcross S. Role of neuroinflammation and neurotransmitter systems in the improved cognition induced by estrogen receptor modulation, Project Grant (2019-2021), 2020 amount \$237,506

Sturnieks D, Menant J, Valenzuela M, Delbaere K. A randomised controlled trial of cognitive-only and cognitive-motor training to prevent falls in older people: understanding physical, neuropsychological and neural mechanisms, Project Grant (2015-2020), 2020 amount \$0

Taylor M. Dementia Research Development Fellowships (2016-2020), 2020 amount \$0

Tiedemann A, Sherrington C, Lord S. Preventing falls in older age with yoga-based exercise: effectiveness, cost-effectiveness and implementation, Project Grant (2018-2022), *Administered by University of Sydney*

Westbrook J, Georgiou A, Lord S, Gray L, Day R, Ratcliffe J, Baysari M, Braithwaite J. A dashboard of predictive analytics and decision support to drive care quality and person-centred outcomes in aged care, Partnership Project (2020-2024), *Administered by Macquarie University*

Wray N, Armstrong N, Blair I, Kwok J, Laws S, Mather K, McRae A, Mellick G, Sachdev P. BRAIN-MEND: Biological Resource Analysis to Identify new mechanisms and phenotypes in Neurodegenerative Diseases, Boosting Dementia Research Grant (2018-2020), 2020 amount \$285,661

Australian Research Council

Anstey K. Contemporary life engagement and cognitive resilience in ageing, Australian Laureate Fellowship (2020-2024), *Administered by UNSW*

Anstey K, Regan M, Kiely K, Velonaki M, Cratchley S, Ross L, McCallum J. Ageing drivers: Cognitive ageing and technology, Linkage Project (2020-2024), *Administered by UNSW*

Bilston L, Herbert R, Butler J, Bolsterlee B, Rohrlé O, Nordslette D. How do mechanics, neural drive and muscle architecture interact in muscles?, Discovery Project (2020-2023), 2020 amount \$250,000

Birnieks I, Vickery R, Potas J, Shivdasani M. The role of spike patterning in shaping human perception of tactile stimuli, Discovery Project (2020-2022), 2020 amount \$210,000

Broer S, Rae C, Billups B. A unified model of amino acid homeostasis, Discovery Project (2018-2021), 2020, *Administered by Australian National University*

Egan G, Marcello R, Mattingly J, Robinson, P Sah P, Stuart G, Ibbotson M, Breakspear M, Lowery A, Arabzadeh E, Paxinos G, Martin P, Petrou S, Grunert U, Skafidas E, Garrido M, Mitra P, Sporns O, Victor J, Margrie T, Diamond M, Johnson G, Leopold D, Movshon J, Markram H, Hill S. ARC Centre of Excellence for Integrative Brain Function. Centre of Excellence (2014-2020), 2020 sub-contract amount \$127,082

Gu Y, Pivonka P, Cooper-White J, Bilston L, Kerr G, Herbert R, Wang Y-G, Milford M, Klein T, Hodges P, Brown C, Gupta A, Epari D, Brauer S, Xiao Y, Sauret E, Ferrewira L, McPhail S, Grondahl L, Gandhi N, Jellicoe T, Grant N, Muir A, Kerr A, Rohrlé O, Schmitt S, Cuesta Vargas A, Cutbush K, McIntyre M. ARC Training Centre in Joint Biomechanics, Industrial Transformation Training Centres (ITTC) (2020-2023), 2020 amount \$70,576

Henry J, Sachdev P, Mather K. Social cognitive change in late adulthood, Discovery Project Grant (2017-2020), 2020 amount \$0

Kiely K, Anstey K, Jagger C. Healthy and working life expectancies in an ageing Australia, Discovery Project (2019-2021), *Administered at UNSW, School of Psychology*

Paxinos G, Furlong T. Centre of Shared Excellence for Integrative Brain Function - Strategic Initiatives Fund Round 3, (2019) \$86,490

Piggott J, Anstey K, Bateman H, Baird M, Clarke P, Cumming R, Keane M, McDonald P, McKibben P, Parker S, Sherris M, Woodland A. Centre of Excellence in Population Ageing Research II (CEPAR II), Centre of Excellence (2017-2022), 2020 sub award amount \$249,723

NSW Health Dept / NSW Office for Science & Medical Research

Butler J, Gandevia S, McCaughey E, Boswell-Ruys C, Heroux M, Lee B, Burke P, Berlowitz D, Taylor J. Therapeutic acute intermittent hypoxia: developing a novel treatment to restore voluntary function after spinal cord injury, Spinal Cord Injury Research Grants (2020-2024), 2020 amount \$302,600

Close J. Australian and New Zealand Hip Fracture Registry - support of the registry (2018-2022), 2020 amount \$25,000

Craig A, Middleton J, Gopinath B, Cameron I, Davis G, Tran Y, Krassioukov A, Braithwaite J, Mitchell R, Gustin S. A novel neuro-cardiac self-regulation therapy to improve autonomic and neural function after SCI: Clinical trials and translation to implementation, Spinal Cord Injury Grants, (2020-2025), *Administered by University of Sydney*

Delbare K, Lord S, Clemson L, Close J, Howard K, Herbert R, Todd C. Engaging and supporting older people in fall prevention in the community: International implementation study (2018-2020), 2020 amount \$80,000

Fullerton J, Mitchell P, Green M, Schofield P, Toma C, Havard A. 45 and Up - Bipolar Disorder Substudy, Biospecimen Collection Grant (2019-2023), 2020 amount \$20,000

Gustin S, Middleton J, Stanley J, Elliot J, Craig A, Trost Z, Shum C, Hesam-Shirati N. RESTORE: Immersive Virtual Reality Treatment for Restoring Touch Perception in People with Discomplete Paraplegia, Spinal Cord Injury Research Grants (2020-2024), 2020 amount \$622,058

McCaughey E, Lee B, Butler J, Gandevia S, Shehabi Y, Chhabra H, Goodall S, Berlowitz D, Harvey L. Abdominal Stimulation to improve clinical outcomes after spinal cord injury: translation into worldwide clinical practice, Spinal Cord Injury Research Grants (2020-2025), 2020 amount \$966,375

Shannon Weickert C. NSW Health Chair of Schizophrenia Research (2017-2021), 2020 amount \$1,000,000

Other Funding Bodies

Andrews S. Harnessing habits to increase physical activity in people with Mild Cognitive Impairment and Subjective Cognitive Decline, Dementia Australia Research Foundation, Dementia Grants Program - Pilot Grant, 2020 amount \$75,000

Anstey K, Eramudugolla R, Hansen A. Identifying in-vehicle measures that monitor driver decline in dementia, Department of Infrastructure, Transport, Regional Development & Communications, Road Safety Innovation Fund (2020-2022), 2020 amount \$0

Bilston L, Lovell N, Burke P, Brown E. A novel optical stimulation method for Obstructive Sleep Apnoea treatment, UNSW Biomedical Seed Fund (2018-2020), 2020 amount \$149,493

Bilston L. Adolescent Idiopathic Scoliosis (AIS) project, LifeHealthcare Distribution Pty Ltd, Contract Research, 2020 amount \$36,000

Brew B, Rae C, Holloway C, Cysique L, Peters R, Juge L, Lancaster K, Moffat K, Ball I. Improving and translating the diagnostic capacity of Cerebral Small Vessel Disease with advanced cardiac and brain MRI, UNSW Medicine Neuroscience, Mental Health & Addiction Theme & SPHERE CAG, Collaborative Research Seed Funding 2020, *Administered by St Vincents Hospital*

Brodie M, Delbaere K, Canning C, Lovell N, Lord S, Lung T. StandingTall-PD. An engaging self-managed neuro-rehabilitation program using eHealth technologies to reduce step-time variability, prevent freezing of gait & falls, & enhance independence in people with Parkinson's disease: a placebo RCT, Michael J Fox Foundation for Parkinson's Research, Non-Pharmacological Interventions for Gait and Balance Disturbance (2019-2020), 2020 amount \$257,941

Burton A, Macefield V, Vollmer-Conna U, Lloyd A. The role of muscle sympathetic nerve activity in CFS symptomatology, Mason Foundation (2019-2020), 2020 amount \$185,723

Butler J, Gandevia S, McCaughey E, Boswell-Ruys C, Heroux M, Hudson A, Lord S, Sturnieks D, van Schooten K, Butler A, Bilston L, Burke P, Menant J. Human motor function and autonomic function after spinal cord injury, in neurodegenerative disease, in sleep, and in the ageing population, UNSW, Research Infrastructure Scheme: Supporting Collaborative Research, 2020 amount \$151,845

Cao J. Attending the ISMRM 28th Annual Meeting & Exhibition, 18 – 23 April 2020, in Sydney, Australia, International Society for Magnetic Resonance in Medicine, Trainee Stipend, 2020 amount \$475

Celler B, Brodaty H, Redmond S, Delbaere K. Smart home IT support for frail elderly people with early dementia who live alone, UNSW, Biomedical Engineering Seed Fund (2018-2020), *Administered by UNSW, Graduate School of Biomedical Engineering*

Chang W-J, Schabrun S, Naylor J, Gibson K. Why Does Quadriceps Weakness Persist after Total Knee Replacement? An Exploratory Investigation of Neuroplastic Mechanisms, Physiotherapy Research Foundation, Seed Grant, 2020 amount \$9,511

Close J. Australian and New Zealand Hip Fracture Registry - support Queensland hospitals' participation in the registry, Queensland Health, Funding support (2017-2021), 2020 amount \$25,000

Close J. A web-based audit of hip fracture care and secondary fracture prevention in South Australian public hospitals ANZHFR, Government of South Australia, Research Contract Grant (2018-2023), 2020 amount \$25,000

Close J. ANZ Hip Fracture Registry, Australian Government Department of Health, Registry Grant (2018-2019), 2020 amount \$333,000

Close J. Raising the bar in hip fracture care – a win for everyone, SPHERE SLBVC Grants Scheme (2019-2020), 2020 amount \$76,872

Close J. Australian and New Zealand Hip Fracture Registry, Victorian Agency for Health Information, Contract Research (2020-2021), 2020 amount \$12,000

Close J. Prince of Wales Hospital Foundation, 2019 Research Medal, 2020 amount \$50,000

Close J. FALLPREVENT, Oslo Metropolitan University (OsloMet), Collaboration Agreement (2020-2024), 2020 amount \$1,584

Crawford T, Hamilton M, Yun-Hee J, Zhicheng L, Thomson DK, Judd-Lam S, Anstey KJ. Mental Health and Wellbeing – Early Intervention and Prevention (Older People), USYD-UNSW, Seed Funding Scheme, *Administered by USYD-UNSW*

Debs S. Microglia as targets for antipsychotic treatment in schizophrenia, Miltenyi Biotec Australia, MACS Project Grant, 2020 amount \$0

Delbaere K, Lord S, Clemson L, Close J, Howard K, Herbert R, Todd. Engaging and supporting older people in fall prevention in the community: International implementation study, Northern Health Alliance Partner contribution to NHMRC Partnership Project for Better Health (2018-2020), 2020 amount \$21,973

Delbaere K, Baldwin P, Lim M, Radford K, van Schooten K, O'Dea B, Lord S, Anstey K, Draper B, Close J, Yen Hill T. Optimised treatment for fear of falling, The Mindgardens Alliance, Clinical Translational Research Program (2019-2020), 2020 amount \$75,000

Delbaere K, Ooi S-Y, Lovell N, Yu J, Everett B, Basilakis J, Parementer B, Celler B. Virtual Cardiac Rehabilitation: Development and initial user testing, SPHERE Frontiers Technology (CAG), COVID-19 + BEYOND 2020 Rapid Response Scheme, 2020 amount \$30,000

Delbaere K, Taylor M. Ageing Futures Project, Frank Whiddon Masonic Homes of NSW, Contract Research (2020-2021), 2020 amount \$50,000

Eckert D. Sleep Lab Manager Position, Thyne-Reid Foundation, Research Support (2018-2020), 2020 amount \$105,000

Fullerton J, Bipolar Disorder comorbidity (The clinical course of bipolar disorder), Mindgardens Neuroscience Network, Research Projects (2020-2021), 2020 amount \$150,000

Furlong T, Jiang T, Paxinos G, Fan L, Yang Z. Multi-modal, multi-scale brain mapping of the rhesus monkey, CAS-UNSW Collaborative Research Seed Program, Bridging Grant, 2020 amount \$50,000

Gandevia S, Butler J. Assessment of percutaneous spinal stimulation to improve voluntary control of muscles and autonomic function after spinal injury, SpinalCure Australia, Research Project & Clinical Trial (2019-2020), 2020 amount \$1,200,000

Gatt J, Measuring wellbeing and treatment efficacy, Mindgardens Neuroscience Network, Research Projects (2020-2021), 2020 amount \$150,000

Gatt J, Park H. Impact of Instagram on wellbeing in adolescents vs young adults over time, Instagram, Mental Health Research Grant, 2020 amount \$50,000

Gustin S. Pain and the brain: Understanding and modulating the critical brain mechanisms that underlie chronic pain, Rebecca L Cooper Medical Research Foundation, Al & Val Rosenstrauss Research Fellowship, (2017-2020), 2020 amount \$100,000

Hesam-Sheriati N, Developing and testing a brain-computer interface for neuromodulation to reduce pain after spinal cord injury, Craig H Neilsen Foundation, Grant application (2020-2021), *Administered by University of Alabama*

Juge L, Bilston L, Cysique L, Rae C, Brown E, Burke P. Early identification of cerebral small vessel disease burden in obstructive sleep apnoea patients using advanced magnetic resonance imaging, Brain Foundation, Research Gift (Cerebrovascular & other Cerebral Diseases) 2020 amount \$24,000

Juge L, Peters R, Bilston L, Rae C, Burke P, Brown E, Cysique L. Poor sleep, neurovascular injury and cognitive decline, UNSW Ageing Futures Institute, Ageing Futures 2020 Seed Funding Grant, 2020 amount \$49,334

- Kaur M. Towards personalised medicine: individualised fMRI targeting of rTMS treatment for auditory hallucinations, Brain and Behavior Research Foundation, NARSAD Young Investigator Grant (2018-2020), *Administered by UNSW*
- Kaur M, Improving science communication of neuroimaging research, Society for Mental Health, Research Seed Grant, 2020 amount \$5,000
- Kiely K. Making sense of hearing-related neurocognitive impairment: The Auditory Ageing and Cognitive Impairment (AUDACIOUS) Pilot Study, Dementia Australia Research Foundation (DARF) Project Grant (2019-2020), *Administered by UNSW*
- Lappin J, Campbell G, Shand F, Brydon L, Darke S, Sharma S, Dear B, McAuley J, Nielssen O, Titov N. Chronic pain prevalence in people with suicide behaviour, The Mindgardens Alliance, Clinical Translational Research Program (2019-2020), *Administered by UNSW*
- Lee BSB, McCaughey E, Gandevia S, Butler J Gollee H, Chhabra H, Harvey L. Abdominal Functional Electrical Stimulation to reduce respiratory complications in Spinal Cord Injury, Wings for Life Spinal Cord Research Foundation, Project Grant (2018-2020), 2020 amount \$202,472
- Lord S, Sturnieks D, Kark L, Brodie M, Del Rosario M, Close J, Delbaere K, Gandevia S, Herbert R, Hoang P, Menant J. Perturbation treadmill and Laboratory Manager, UNSW, Faculty Infrastructure Project (2018-2020), 2020 amount \$0
- Lord S. NSW Falls Prevention Network, Clinical Excellence Commission (CEC), Contract Research (2019-2020), 2020 amount \$94,637
- Lord S, Delbaere K, Sturnieks D, Sherrington C. NSW Health Ageing and Fall Prevention Network, Clinical Excellence Commission (CEC), Contract Research (2020-2023), 2020 amount \$103,508
- Macefield V, Burton A, Taylor C, Vollmer-Conna U. Non invasive Vagal Nerve Stimulation to optimize autonomic functioning in patients with chronic fatigue syndrome, Mason Foundation, Myalgic encephalomyelitis/chronic fatigue syndrome (ME/CFS) Grants (2020-2022), 2020 amount \$120,000
- Macefield V, Burton A, Taylor C, Vollmer-Conna U. Non invasive Vagal Nerve Stimulation to optimize autonomic functioning in patients with chronic fatigue syndrome, Mason Foundation, Myalgic encephalomyelitis/chronic fatigue syndrome (ME/CFS) Grants (2020-2022), 2020 amount \$186,500
- MacMillan V, Gatt J, Sheedy S, Lloyd W, Park H. The mental health and wellbeing of children who stutter and their caregivers, the impact of treatment and predictors of response, UNSW Medicine Neuroscience, Mental Health & Addiction Theme & SPHERE CAG, SWSLHD Clinical Knowledge Exchange Seed Funding, 2020 amount \$40,000
- McAuley J. Depression and pain: a feasibility study, Mindgardens Neuroscience Network, Research Projects (2020-2021), 2020 amount \$150,000
- McCaughey E, Boswell-Ruys C, Butler J, Gandevia S. Abdominal Functional Electrical Stimulation to
- McCaughey E, Butler J, Lee B, Boswell-Ruys C, Lovell N, Flower O, Hudson A, Chhabra H, Tongprasert S, Gollee H. Abdominal FES to reduce ventilation time in tetraplegia, The Mindgardens Alliance, Clinical Transitional Research Program (2019-2020), 2020 amount \$75,000
- McCaughey E. Abdominal Stimulation to reduce mechanical ventilation duration after spinal cord injury, Perpetual Trustees, Ramaciotti Health Investment Grant (2020-2022), 2020 amount \$147,969
- McCaughey E. PACIFICO Yokohama, 59th International Spinal Cord Society Annual Scientific Meeting (ISCoS 2020), Japan. Invited presenter, CASS Foundation, Travel Award, 2020 amount \$2,750
- McDade E, Brooks W. DIAN-TU Primary Prevention Trial (DIAN-TU PPT). A Phase II/III randomized, double-blind, placebo-controlled, cognitivemulti-center study of potential disease modifying therapies in individuals at risk for & with Dominantly Inherited Alzheimer's Disease, National Institute of Health, Translational Research and Clinical Interventions (2019-2024), *Administered by Washington University*
- Newton-John T, Gustin S, Lin C-T. NeuroGame: Can neuromodulation of brain rhythms relieve trigeminal neuropathic pain? University of Technology Sydney, UTS Cross Faculty Collaborative Scheme (2019-2020), *Administered by UTS*

Newton-John T, Gustin S, Lin C-T, Middleton J, Hesam-Shariati N, Stanley J. EEG Neurofeedback as a treatment for spinal cord injury pain: a pilot study, SPHERE Frontiers Technology Clinical Academic Group, Seed Funding Scheme, 2020 amount \$28,858

Okubo Y, Lovell N, Kim J, Brodie M, van Schooten K, Anstey K, Lord S. Understanding and improving fall risk in older people with cognitive impairment using augmented reality, UNSW Ageing Futures Institute, Seed Funding Grant, 2020 amount \$49,911

Paxinos G, Ashwell K, Carrive P, Furlong T, Kassem S. Aperio scanning system for high-quality imaging and digitalization of brain tissue, UNSW, Research Infrastructure Scheme: Supporting Collaborative Research, 2020 amount \$272,288

Peters R, Ward S, Hamilton M, Kudrna, Ee N, Anstey K, Xu Y, Zheng L. The INTERGENERATION INTEGRATION project: supporting the building of the intergenerational programs within communities, Seed Funding Grant, 2020 amount \$48,210

Radford K. Appointment of a postdoctoral fellow, Serpentine Foundation, Postdoctoral Fellow (2017-2019), 2019 amount \$153,050

Radford K, Wall S. Enhancing the care of Aboriginal and Torres Strait Islander people living with dementia - A technological approach to translating research into practice, Department of Health Dementia & Aged Care Services; Better support for services targeting people (2017-2020), 2020 amount \$0

Rae C, von Wegner F, Gupta S, Gill D. Investigation of the utility of tissue conductivity imaging for detection, location and management in epilepsies, UNSW Medicine Neuroscience, Mental Health & Addiction Theme & SPHERE CAG, Collaborative Research Seed Funding, 2020 amount \$27,000

Roscioli T. GenomeConnect Clinical Academic Group, SPHERE, Partnership Program (2017-2020), 2020 amount \$0

Schofield P, Christensen H. Research and Clinical Trials Governance Framework, Mindgardens Neuroscience Network, Research Project (2020-2021), 2020 amount \$200,000

Schubert M, Migliaccio A. INVENT VPT Trial - incremental velocity error as a new treatment in vestibular rehabilitation, US Department of Defence, Research Program (2018-2022), 2020 amount \$29,049

Seminowicz D, Schabrun S, Chen S. Validation of a novel cortical biomarker signature for pain, National Institute of Neurological Disorders and Stroke, Research Project Grant (2019-2020), 2020 amount \$155,938

Shannon Weickert C. Gene expression profiles of neuroinflammatory markers in brain tissues of mouse mutants and/or knockouts and from individuals with schizophrenia, Astellas Pharma Inc, Contract Research (2016-2020), 2020 amount \$0

Shepherd C, Gardner A. Understanding chronic traumatic encephalopathy, Brain Foundation, Research Gift, 2020 amount \$25,000

Sturnieks D. Novel approaches for training balance and preventing falls in older people, PB Foundation, Rising Star Researcher Fellowship (2017-2020), 2020 amount \$82,796

Sullivan R, Calamante F, Janke A, Bellgard M, Abramson D, Ward N, Galloway G, Cloes T, Betbeder-Matibet L, Rae C, Ross S, Sowman P, Nairnsey J, Mehnert A, Ebert MM, Lewis R, Marcus D, Olsen T. An Australian Imaging Service: Melding the Clinical and Academic using a Distributed Federation of Enhanced XNATs, Australian Research Data Commons (ARDC), Platforms Open Call (2020-2021), 2020 amount \$39,000

Toma C. Ministerio de Ciencia Innovation Y Universidades, Convocatoria Beatriz Galindo Fellowship (2019-2022), *Administered by Universidad De Cantabria*

Trost Z, Gustin S, Redden D, Bolding M, Mark V, Cowan R, Perera R, Bjork J, Goetz L. A Multi-Site Randomized Clinical Trial to Examine the Efficacy and Mechanisms of Immersive Virtual Walking Treatment for Neuropathic Pain in Spinal Cord Injury, Department of Defense, Spinal Cord Injury Program Clinical Trial Award (2020-2024), *Administered by Virginia Commonwealth University*

Walker A, Eapen V, Masi A, Ooi K, Morris M, Mathew N. Inflammatory biomarkers in Autism Spectrum Disorder, UNSW Medicine Neuroscience, Mental Health & Addiction Theme & SPHERE CAG, Collaborative Research Seed Funding, 2020 amount \$39,950

Walker A, Slove N, Rogerson N, Masi A, Eapen V, Whitehouse A, Ong L. Investigating the role of chronic stress in children with autism, UNSW Medicine Neuroscience, Mental Health & Addiction Theme & SPHERE CAG, SESLHD - Clinical Knowledge Exchange Seed Funding, 2020 amount \$40,000

Withal A, Anstey K, El-Omar E, Katz M, Jiang X, Peters R, Gia A. Can we modify the gut microbiome through nutritional intervention to beat inflammaging and reduce the risk of frailty in later life?, UNSW Ageing Futures Institute, Seed Funding Grant, *Administered by UNSW*

Worthington C, Carusone SC, Baltzer Turje R, Monteith K, Watson J, Ibanez-Carrasco F, Rourke S, Cysique L, Eaton A, Gill J, Liboro R, O'Brien K, Terpstra A. HEADS UP! 2: A qualitative CBR study to describe service experiences of HIV positive people living with neurocognitive difficulties and disorders and the providers of those services, Canadian Institutes of Health Research, Operating Grant Community - Based Research HIV/AIDS, (2019-2021), *Administered by University of Victoria, BC*

Xu Y, Keay L, Peters R, Phu J, Anstey K, Anderson C, Ee N, Andrews S, Kootar S. Eye Biomarkers for cognitive impairment, UNSW Ageing Futures Institute, Seed Funding Grant, 2020 amount \$38,700

Zheng L, Hwang J, Brown S, Chen G, Trollor J, Li X, Kouppas P, Grove R, Foley K, Pelicano L, Leong D-J. The Autism ASSIST Project (Aiding and SuStaining Independence through Smart-home Technology), UNSW Ageing Futures Institute, Seed Funding Grant, 2020 amount \$49,292

External Scholarships

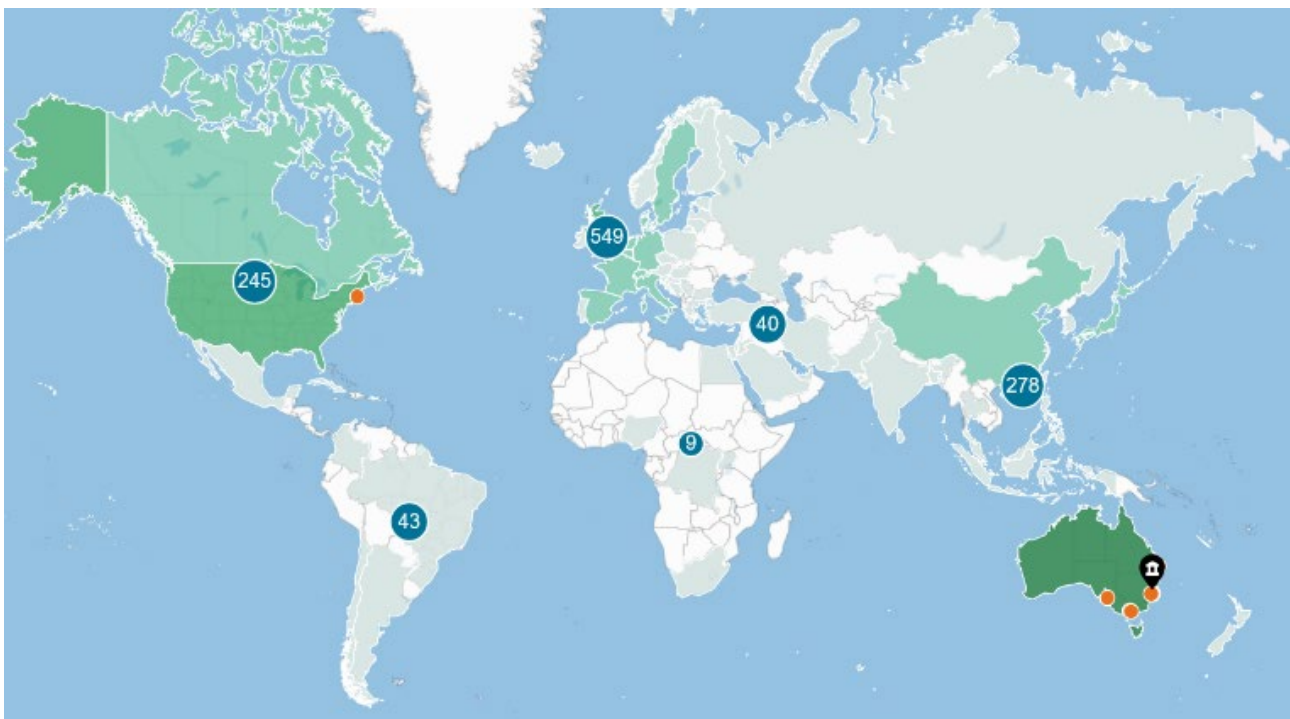
- Afzal N. UNSW Scientia PhD Scholarship, (2018-2021), \$50,000
- Aishah A. UNSW Scientia PhD Scholarship, (2018-2021), \$50,000
- Albanese B. Research Training Program, (2018-2021), \$28,092
- Blumenfeld R. Research Training Program, (2019-2022), \$28,092
- Chan L. Research Training Program, (2020-2023), \$28,092
- Chow B. UNSW Scientia PhD Scholarship, (2019-2022), \$50,000
- Cooray N. UNSW Scientia PhD Scholarship, (2018-2021), \$50,000
- Debs SR. Research Training Program, (2019-2022), \$28,092
- Dias K-R. Research Training Program, (2019-2022), \$28,092
- Ee N. Westpac Future Leaders Scholarship, (2019-2022), \$31,159
- Ee N. Research Training Program, (2019-2022), \$28,092
- Epiu I. UNSW Scientia PhD Scholarship, (2018-2022), \$50,000
- Fagerlind H. UNSW University International Postgraduate Award, (2018-2021), \$28,092
- Finlay E. Research Training Program (2018-2021), \$28,092
- Han DU. Research Training Program (2021-2023), \$28,092
- Hatami M. UNSW Tuition Fee Scholarship, (2020-2023), \$28,092
- Hesam Shariati S. University International Postgraduate Award (2018-2022), \$28,092
- Jamshidi J. UNSW Scientia PhD Scholarship, (2018-2021), \$50,000
- Jezewski R. UNSW Scientia Scholarship, (2018-2022), \$50,000
- Katz M. Research Training Program, (2019-2022), \$28,092
- Knapman F. Research Training Program, (2019-2022), \$28,092
- Lam J. Research Training Program, (2020-2024), \$7,023
- Lewis E. UNSW Scientia PhD Scholarship, (2020-2023), \$51,209
- Lian J. Research Training Program, (2020-2023), \$28,092
- Lim ML. NHMRC Postgraduate Research Scholarship, (2019-2021), \$37,158
- Lim R. UNSW University Postgraduate Award, (2017-2020), \$28,092
- Livings R. STREAM Health PhD scholarship, (2018-2021), \$30,000
- Mahfuz MM. UNSW University Postgraduate Award, (2017-2020), \$28,092
- Martinac A. Research Training Program, (2020-2024), \$7,023
- Mathew A. UNSW Tuition Fee Scholarship (2020-2023), \$28,092

- Mathew NE. Research Training Program, (2019-2022), \$28,092
- Murphy C. Research Training Program, (2017-2020), \$28,092
- Nguyen D. UNSW Australian Postgraduate Award, (2017-2020), \$14,046
- Revalas M. UNSW Australian Postgraduate Award, (2015-2020), \$14,046
- Rinaudo C. UNSW Australian Postgraduate Award, (2017-2020), \$14,046
- Rizzo RRN. UNSW Tuition Fee Scholarship, (2019-2022), \$28,092
- Sharma D. University International Postgraduate Award (2019-2023), \$28,092
- Skliros C. UNSW Tuition Fee Scholarship, (2018-2021), \$14,046
- Tong B. UNSW University Postgraduate Award, (2017-2020), \$28,092
- Tonini E. Research Training Program, (2019-2022), \$28,092
- Watkeys O. Research Training Program, (2017-2020), \$28,092
- Wewege M. NHMRC Postgraduate Scholarship, (2020-2022), \$37,821
- Xie Y. UNSW Scientia PhD Scholarship, (2020-2023), \$50,000

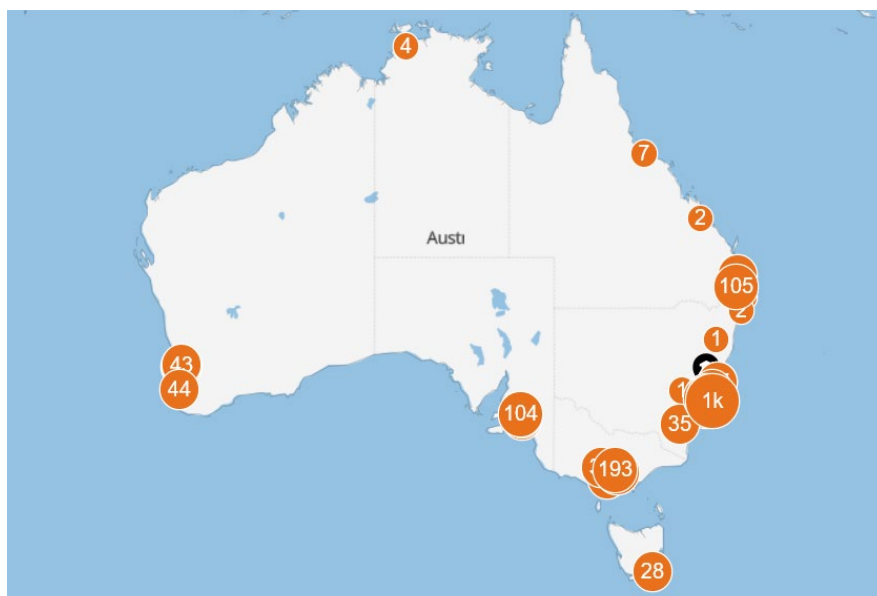
COLLABORATION

Between 2015-2020 NeuRA researchers have, overall, collaborated with 1,164 collaborating institutions on 1,923 co-authored publications. (Source: SciVal 19/5/2021)

Region	Collaborating Institutions	Co-authored publications
Asia Pacific	278	1,471
Europe	549	674
Middle East	40	52
Africa	9	36
North America	245	462
South America	43	77

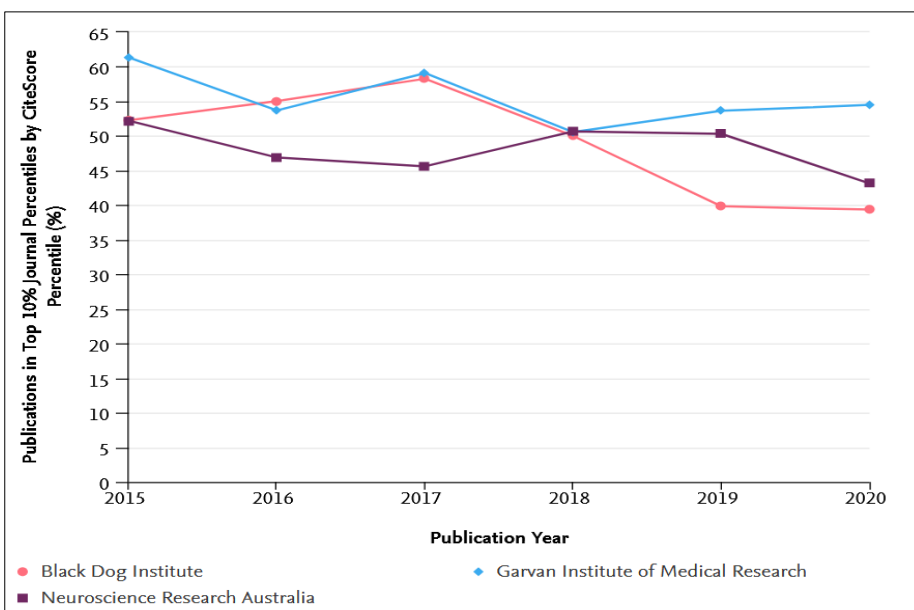
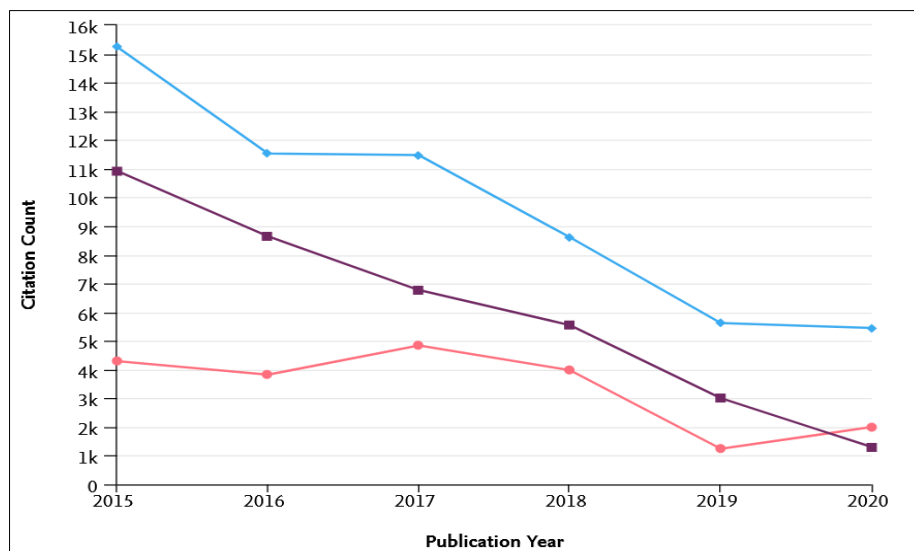
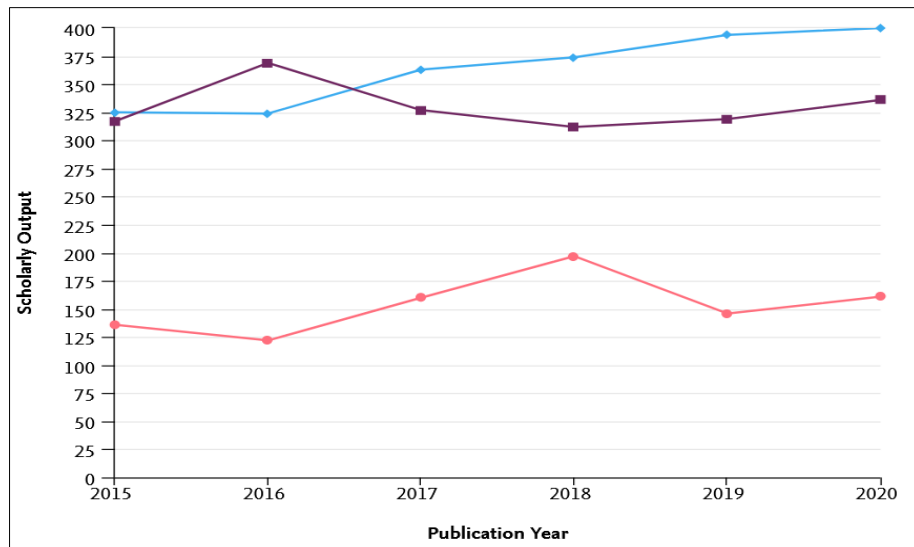


Within Australia (2015-2020) –122 collaborating institutions 1,683 co-authored publications



BENCHMARKING

Source: SciVal 23/06/2021

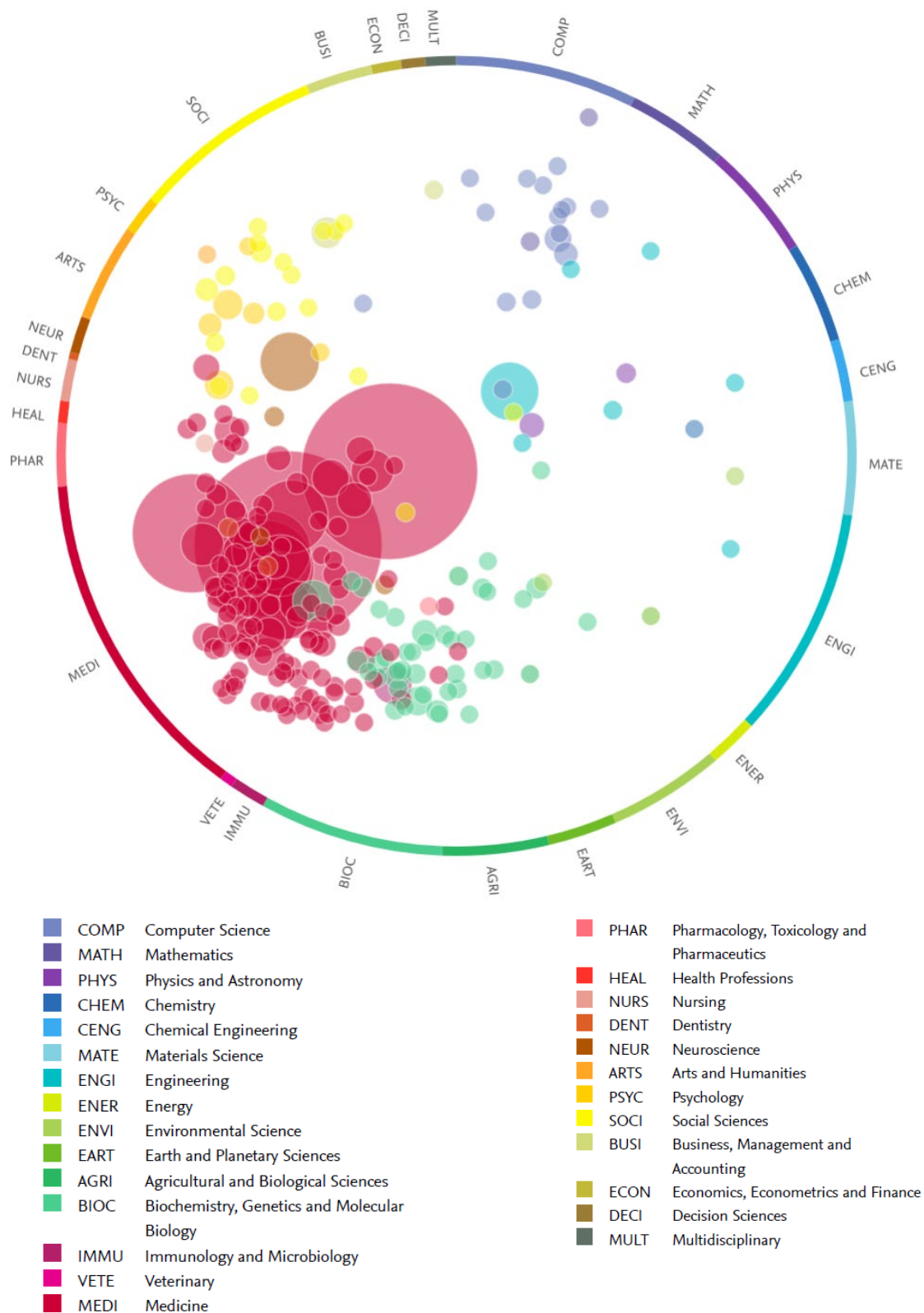


Topics and Topic Clusters

Topics are a collection of documents with a common focussed intellectual interest. These topics are based upon a direct citation analysis. **Topic Clusters** are aggregate topics with similar research interest to form a broader higher level area of research.

Researchers at NeuRA have contributed to 726 topics in 236 topic clusters between 2015 - 2020.

Source: SciVal 19/5/2021



PUBLICATIONS

Books

1. **Paxinos G**, Halliday G, **Watson C**, **Kassem MS**. *Atlas of the Developing Mouse Brain at E17.5, P0, and P6*, Second Edition, Academic Press, San Diego, ISBN: 9780128185438, 2020

Journal articles

2. Abohamza E, **Weickert T**, Ali M, Moustafa AA. Reward and punishment learning in schizophrenia and bipolar disorder. *Behavioural Brain Research*, 381:112298, 2020
3. Abolghasemi M, Daneshmandpour Y, Poursaei E, **Jamshidi J**, Baradaran B, Shanehbandi D, Kazeminasab S, Emamalizadeh B. MMP9 (RS20544) and ADCY2 (RS58502974) as susceptibility factors for schizophrenia in Iranian population *Meta Gene*, 26: 100810, 2020
4. **Affleck AJ**, Sachdev PS, Stevens J, **Halliday GM**. Antihypertensive medications ameliorate Alzheimer's disease pathology by slowing its propagation. *Alzheimer's & Dementia*, 6(1):e12060, 2020
5. **Albanese B**, Bohman K, **Bilston L**, Koppel S, Charlton JL, Olivier J, Keay L, **Brown J**. Influence of child restraint system design features on comfort, belt fit and posture, *Safety Science*, 128:104707, 2020
6. Alipour M, Mithraratne K, **Herbert RD**, Fernandez J. A finite element muscle building block derived from 3D ultrasound: application to the human gastrocnemius. *Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization*, 8(5):460-467, 2020
7. Amadoru S, Doré V, McLean CA, Hinton F, **Shepherd CE**, Halliday GM, Leyton CE, Yates PA, Hodges JR, Masters CL, Villemagne VL, Rowe CC. Comparison of amyloid PET measured in Centiloid units with neuropathological findings in Alzheimer's disease. *Alzheimer's Research & Therapy*: 12: 22 (2020)
8. Amare AT, Schubert KO, Hou L, Clark SR, Papiol S, Cearns M, Heilbronner U, Degenhardt F, Tekola-Ayele F, Hsu Y, Shekhtman T, Adli M, Akula N, Akiyama K, Ardaur R, Arias B, Aubry J, Backlund L, Bhattacharjee AK, Bellivier F, Benabarre A, Bengesser S, Biernacka JM, Birner A, Brichant-Petitjean C, Cervantes P, Chen H, Chillotti C, Cichon S, Cruceanu C, Czerski PM, Dalkner N, Dayer A, Del Zompo M, DePaulo JR, Étain B, Falkai P, Forstner AJ, Frisen L, Frye MA, **Fullerton JM**, Gard S, Garnham JS, Goes FS, Grigoriu-Serbanescu M, Grof P, Hashimoto R, Hauser J, Herms S, Hoffmann P, Hofmann A, Jamain S, Jiménez E, Kahn J, Kassem L, Kuo P, Kato T, Kelsoe J, Kittel-Schneider S, Kliwicky S, König B, Kusumi I, Laje G, Landén M, Lavebratt C, Leboyer M, Leckband SG, Tortorella A, Manchia M, Martinsson L, McCarthy MJ, McElroy S, Colom F, Mitjans M, Mondimore FM, Monteleone P, Nievergelt CM, Nöthen MM, Novák T, O'Donovan C, Ozaki N, Ösby U, Pfennig A, Potash JB, Reif A, Major Depressive Disorder Working Group of the Psychiatric Genomics Consortium, Reininghaus E, Rouleau GA, Rybakowski JK, Schalling M, **Schofield PR**, Schweizer BW, Severino G, Shilling PD, Shimoda K, Simhandl C, Slaney CM, Squassina A, Stamm T, Stopkova P, Maj M, Turecki G, Vieta E, Veeh J, Witt SH, Wright A, Zandi PP, Mitchell PB, Bauer M, Alda M, Rietschel M, McMahon FJ, Schulze TG, Baune BT. Association of polygenic score for major depression with response to lithium in patients with bipolar disorder, *Molecular Psychiatry*, March 2020
<https://doi.org/10.1038/s41380-020-0689-5>
9. Amadoru S, Doré V, McLean CA, Hinton F, **Shepherd CE**, **Halliday GM**, Leyton CE, Yates PA, Hodges JR, Masters CL, Villemagne VL, Rowe CC. Comparison of amyloid PET measured in Centiloid units with neuropathological findings in Alzheimer's disease. *Alzheimer's Research & Therapy*, 12(1):22, 2020
10. Amare, AT, Schubert, KO, Hou, L and 308 more (including **Fullerton JM**, **Schofield, PR**). Association of polygenic score for major depression with response to lithium in patients with bipolar disorder *Molecular Psychiatry*, <https://doi.org/10.1038/s41380-020-0689-5>
11. **Andrews SC**, Curtin D, Hawi Z, Wongtrakun J, Stout JC, Coxon JP. Intensity matters: High-intensity interval exercise enhances motor cortex plasticity more than moderate exercise. *Cerebral Cortex*, 30(1):101-112, 2020
12. Andrews SJ, Goate A, **Anstey KJ**. Association between alcohol consumption and Alzheimer's disease: A Mendelian randomization study. *Alzheimer's & Dementia*, 16(2):345-353, 2020
13. Ang SY, **Lim ML**, Ong HS, Chong JNC, Ng XP, Lam M, Chan MM, Lopez V, Lim SH. A Descriptive Study of enteral tube feeding among adults in an acute care tertiary hospital-patient selection, characteristics and complications. *Clinical Nutrition ESPEN*, 37:58-64, 2020
14. **Anstey KJ**, Cherbuin N, Kim S, McMaster M, D'Este C, Lautenschlager N, Rebok G, McRae I, Torres SJ, Cox KL, Pond CD. An Internet-Based Intervention Augmented With a Diet and Physical Activity Consultation to Decrease the Risk of Dementia in At-Risk Adults in a Primary Care Setting: Pragmatic Randomized Controlled

- Trial. *Journal of Medical Internet Research*, 22(9):e19431, 2020
15. **Anstey KJ, Eramudugolla R, Huque MH**, Horswill M, **Kiely K**, Black A, Wood J. Validation of Brief Screening Tools to Identify Impaired Driving Among Older Adults in Australia. *JAMA Network Open*, 3(6):e208263, 2020
16. Antikainen RL, **Peters R**, Beckett NS, Rajkumar C, Bulpitt CJ. Atrial fibrillation and the risk of cardiovascular disease and mortality in the Hypertension in the Very Elderly Trial. *Journal of Hypertension*, 38(5):839-844, 2020
17. **Anstey, KJ, Peters, R, Zheng, L**, Barnes, DE, Brayne, C, Brodaty, H, Chalmers, J, Clare, L, Dixon, RA, Dodge, H, Lautenschlager, NT, Middleton, LE, Qiu, C, Rees, G, Shahar, S, Yaffe, K. Future Directions for Dementia Risk Reduction and Prevention Research: An International Research Network on Dementia Prevention Consensus. *Journal of Alzheimer's Disease*, 78(1) 3-12, 2020
18. Arkles R, Jankelson C, **Radford K**, Jackson Pulver L. Family caregiving for older Aboriginal people in urban Australia: Disclosing worlds of meaning in the dementia experience *Dementia*, 19(2) 397-415, 2020
19. Armstrong NJ, **Mather KA**, Sargurupremraj M, Knol MJ, Malik R, Satizabal CL, Yanek LR, Wen W, Gudnason VG, Dueker ND, Elliott LT, Hofer E, Bis J, Jahanshad N, Li S, Logue MA, Luciano M, Scholz M, Smith AV, Trompet S, Vojinovic D, Xia R, Alfaro-Almagro F, Ames D, Amin N, Amouyel P, Beiser AS, Brodaty H, Deary IJ, Fennema-Notestine C, Gampawar PG, Gottesman R, Griffanti L, Jack Jr CR, Jenkinson M, Jiang J, Kral BG, Kwok JB, Lampe L, Liewald DCM, Maillard P, Marchini J, Bastin ME, Mazoyer B, Pirpamer L, Romero JR, Roshchupkin GV, **Schofield PR**, Schroeter ML, Stott DJ, **Thalamuthu A**, Trollor J, Tzourio C, van der Grond J, Vernooij MW, Witte VA, Wright MJ, Yang Q, Morris Z, Sigurdsson S, Psaty B, Villringer A, Schmidt H, Asta K Haberg AK, van Duijn CM, Jukema JW, Dichgans M, Sacco RL, Wright CB, Kremen WS, Becker LC, Thompson PM, Mosley TH, Wardlaw JM, Ikram MA, Adams HHH, Seshadri S, Sachdev PS, Smith SM, Launer L, Longstreth W, DeCarli C, Schmidt R, Fornage M, Debette S, Nyquist PA. Common Genetic Variation Indicates Separate Causes for Periventricular and Deep White Matter Hyperintensities. *Stroke*, 51(7):2111-2121, 2020
20. Aschenbrenner AJ, James BD, McDade E, Wang G, Lim YY, Benzinger TLS, Cruchaga C, Goate A, Xiong C, Perrin R, Buckles V, Allegri R, Berman SB, Chhatwal JP, Fagan A, Farlow M, O'Connor A, Ghetti B, Graff-Radford N, Goldman J, Gräber S, Karch CM, Lee JH, Levin J, Martins RN, Masters C, Mori H, Noble J, Salloway S, **Schofield P**, Morris JC, Bateman RJ, Hassenstab J; Dominantly Inherited Alzheimer Network. Awareness of genetic risk in the Dominantly Inherited Alzheimer Network (DIAN). *Alzheimers & Dementia*, 16(1):219-228, 2020
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Book Chapters

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RECOGNITION

Name	Award	Awarding body
Kylie Sullivan	Lowitja Institute Certificate IV Scholarship	Lowitja Institute
Lauren Poulos	Lowitja Institute 2020 Graduate Certificate Scholarship	Lowitja Institute
NeuRA	Invited to become an Associate Member of the Lowitja Institute	Lowitja Institute
Kerith-Rae Dias	Outstanding Research Student Award	UNSW
Jun Cao	Student Poster Prize	9th (biennial) Western Sydney University & Inaugural Asian Symposium on NMR, MRI & Diffusion
Daina Sturnieks	Award for Adaptability & Innovation	UNSW
Delyse McCaffrey	Best Student Data Blitz Presentation	Biological Psychiatry Australia
Morag Taylor	Best Platform Prize	British Geriatric Society
Siobhan Schabrun	Ulf Lindblom Young Investigator Award for Clinical Science	International Association for the Study of Pain
Nikki Huang	Best presentation Award	UNSW Talented Students Conference
Christina Norris	Best presentation, geriatrics, ACS Quality and Safety Conference	American College of Surgeons
Robert Lloyd	Dean's Award for Outstanding PhD Thesis; <i>The Effect of Chiari Malformation Type I on Cerebrospinal Fluid Dynamics.</i>	UNSW
David Nguyen	Publication Excellence Certificate – Student	NeuRA
Jade Yeung	Publication Excellence Certificate – Research Assistant	NeuRA
Dr Euan McCaughey	Publication Excellence Certificate – Postdoctoral	NeuRA
Dr Tertia Purves-Tyson	Publication Excellence Certificate – Postdoctoral	NeuRA
Dr Joanna Diong	Research Quality Prize	NeuRA
Prof Rob Herbert	Research Quality Prize	NeuRA
Artemij Iberzanov	Technical and Research Assistant Certificate	NeuRA

TRANSLATION STORIES

smart±step - Dr Daina Sturnieks

Excerpt from NeuRA media release 15 December 2020.

A new exercise program based on arcade-style dance games is being trialled in aged care homes this month, to help improve the balance of older people and reduce their risk of falling by up to 50 per cent.

Falls and dementia are among the biggest health threats to older Australians, particularly for those living in residential aged care homes. The COVID pandemic has heightened these risks for anyone who has spent extended periods in isolation, or where homes are under pressure to provide daily exercise programs safely.

The program, *smart±step*, has been designed NeuRA, and is being piloted in four Allity Aged Care homes in New South Wales and Victoria this month ahead of a broader rollout that could benefit up to 3,000 residents in New South Wales, Victoria, Queensland and South Australia in 2021.

The program, *smart±step*, uses a dance mat and adapted versions of popular video games to 'step train' the brain for mobility, balance and cognitive function, making it particularly useful for the 400,000 Australians living with dementia.

NeuRA Senior Research Scientist, Dr Daina Sturnieks, who designed the program, said *smart±step* could reduce falls by up to 50 per cent. In 2016/17, more than 125,000 Australians aged 65+ were hospitalised due to a fall.

"Balance challenging exercises can improve mobility and significantly reduce someone's risk of having a fall, which is the biggest cause of injury-related death in older Australians," she said.

"Our trials show people find the games extremely enjoyable. The competitive nature of the games means that we are confident that *smart±step* participants will happily use the program to obtain the best possible health benefit. We are excited to be undertaking this trial in partnership with Allity as this will enable the new technology to be used by thousands of people within aged care homes across Australia."

smart±step comes with a wireless step mat and computer system, which connects to a television screen or monitor. Players navigate the games, which appear on the screen in front of them, by stepping in the correct direction, at the correct time. The quicker and more precise their steps are, the more likely users are to progress through the game.

"To make this type of exercise more enjoyable and motivating, we have taken the fun elements of a game and converted them into a program that will improve someone's balance and thinking skills," Dr Sturnieks said.

NeuRA researchers recommend *smart±step* be used for two hours each week over the course of a year. People can use the program and progress through the games independently with minimal support from clinicians. Supervising staff, such as physiotherapists, are only involved to ensure safety, particularly for frailer people.

Allity Chief Operating Officer Glen Hurley said *smart±step* was a fun and safe way to help transition residents back to their regular routines.

"We are thrilled to be able to provide residents with a scientifically proven, and fun, way to maintain their quality of life as they age," Mr Hurley said. "In addition to boosting fitness and cognitive health, *smart±step* gives our residents a small dose of healthy competition, and we can already see how it is improving their sociability."



“So far, our most popular games are ‘La Cucaracha’, ‘Toad Runner’ and ‘Block Stacker’. The best thing about the program is that it’s so simple to use. The program is having an immediate effect on boosting morale and the motivation to be active and healthy,” he said.

smart±step is part of a two-year commercial partnership between Allity and NeuRA to bring the latest science and innovation in healthy ageing to residential aged care.