



Research Report 2021



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 A/Professor Justine Gatt 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.

The Board comprises up to 15 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 nine positions for independent directors. The Chair is the Hon Justice Anna Katzman BA(Hons) LLB, Hon LLD, a Federal Court Judge. The directors are also the sole members of the company. The Board meets bimonthly.

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 awarded for the 2021 calendar year from 162 active grants from 50 funding bodies, totalled \$18.72 million. The most significant funding body is the NHMRC which awarded \$6.32 million in 2021. This includes 9 Postdoctoral Fellowships/Investigator awards, 28 Research and Targeted Grants, 5 Centres of Research Excellence, 2 Postgraduate Scholarships and involved in 2 Partnerships Grants. The Medical Research Future Fund awarded \$1.98 million in 2021 through involvement in 7 translational projects and the Australian Research Council awarded \$1.07 million in 2021 through involvement in 2 Fellowships, 1 Centres of Excellence, 2 Industrial Transformation Training Centre/Hubs and 7 Project Grants.

Through the NSW Government's Medical Research Support Program, NeuRA secured \$4.1 million in 2021. NeuRA also received \$3.9 million in 2021 from UNSW for research infrastructure, which included a one-off payment of \$1.6M for COVID-19 support.

The NeuRA Foundation was established in 2007 to enhance philanthropic fundraising to underpin the activities of the institute. The Foundation raised \$8.6 million in philanthropic support in 2021. To date, it has raised \$72 million.

Total income in 2021 was \$40.4 million and operational expenditure was \$29.5 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 also 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.

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2021 AT A GLANCE

BUILDING GLOBAL KNOWLEDGE

32 Clinical trials

394 New discoveries
added to the global bank of neuroscience
knowledge through publications

1,991 publications
(excluding books and chapters) over
past 5 years

ATTRACTING SUPPORT

Fundraising revenue

\$9m

Grant revenue

\$17m

Research Grants 2021

Number of funding bodies 50

Number of new grants awards 37

Overall number of active grants 162

Prizes/Awards 17

OUR PEOPLE

309
Staff and honorary/visiting
appointments

256 researchers

53 support staff

TRAINING THE GENERATION

Students

85

Higher Degree Research

44

Undergraduate

41

2021 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 2021:

National Health and Medical Research Council

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), 2021 amount \$203,584

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), 2021 amount \$211,733

Bessarab D, LoGiudice D, Flicker L, Smith K, Wright M, Radford K, Ratcliffe J, Malay R, Gibson C, Thompson S. Good Spirit Good Life: Better health and wellbeing for older Aboriginal and Torres Strait Islander Australians, Centre of Research Excellence (CRE) (2021-2025), *Administered by UWA*

Bilston L. Biomechanical factors in health and disease, Investigator Grant (2020-2024), 2021 amount \$445,606

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), 2021 amount \$135,969

Butler J. Senior Research Fellowship A (2019-2023), 2021 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), 2021 amount \$38,975

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), 2021 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), 2021 amount \$320,943

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 (2018-2021), *No cost extension to 2021 due to COVID19*

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) 2021 amount \$224,652

Delbaere K, Active Lifestyle Programs for Healthy Ageing (ALPHA), Investigator Grants (L1), (2021-2025), 2021 amount \$347,644.00

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), 2021 amount \$99,971

Gandevia SC. Senior Principal Research Fellowship + SEO (2015-2020), 2021 amount \$482,843

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

Gustin S, Chin-Teng L, Newton-John T, Glare P, Hesam-Shariati N. NeuroGame: Can neuromodulation of brain rhythms relieve chronic pain? Ideas Grant (2021-2025), 2021 amount \$247,672

Herbert R. Principal Research Fellowship (PRF) (2017-2021), 2021 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), 2021 amount \$228,417

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*

LoGiudice D, Bessarab D, Smith K, Burchill L, Radford K, Withall A, Malay R, Flicker L, Strivens E, Temple J. On TRACK (Teaching, Research And Community Knowledge): promoting brain health with older Aboriginal and Torres Strait Islander peoples, Centres of Research Excellence (CRE) (2021-2026), 2021 sub-award amount \$TBA

LoGiudice 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), 2021 amount \$132,607

LoGiudice 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 (2018-2021), *No cost extension to 2021 due to COVID19*

Lord S. Senior Principal Research Fellowship (SPRF) (2017-2021), 2021 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), 2021 amount \$478,689

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), 2021 amount \$103,327.20

Paxinos G. 3D Histological and MRI Atlases of Brain and Spinal Cord for Research and Clinical Practice, Research Fellowship SPRF (2018-2022), 2021 amount \$175,201

Paxinos G, Schira M. Caress the Detail: A Comprehensive MRI Atlas of the in Vivo Human Brain, Project Grant (2018-2021), *No cost extension to 2021 due to COVID19*

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), 2021 amount \$97,128

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

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), 2021 amount \$618,952

Reppermund S, Brodaty S, Numbers K, Clemson L, Kochan N, Draper B, Delbaere K, Trollor J, Ginige JA, Wesson J. Development, validation and implementation of a computerised tool to assess instrumental activities of daily living, Dementia Ageing and Aged Care Mission - Targeted Call Stream 3 (2021-2025), *Administered by UNSW*

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 (2017-2022), 2021 amount \$65,565

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), 2021 amount \$1,750,000

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, Graven-Nielsen T, Seminowicz D. The physiological basis of motor adaptation in pain, Project Grant (2018-2022), 2021 amount \$17,623

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), 2021 amount \$300,000

Shannon Weickert C. Neurobiology of schizophrenia and translation into new treatments, Reapplication with Promotion to Principal Research Fellowship (PRF) (2017-2021), 2021 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), 2021 amount \$262,506

Sherrington C, Lord S, Haines T, Byles J, Cameron I, Close J, Howard K, Bauman A, Centre of Research Excellence in the Prevention of Fall-related Injuries, Centre for Research Excellence (2021-2025), 2021 sub-award amount \$157,500

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*

Australian Research Council

Andrews S. Habit formation and change in ageing: Developing a neuropsychological model, Discovery Early Career Researcher Award (DECRA) (2021-2025), 2021 amount \$49,803

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), 2021 amount \$200,000

Birnie I, Vickery R, Potas J, Shivdasani M. The role of spike patterning in shaping human perception of tactile stimuli, Discovery Project (2020-2022), 2021 amount \$220,000

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

Brown J, Bilston L. User-centric solutions to increase correct use of child restraints and appropriate use of adult seat belts among children, Discovery Project (2021-2024), *Administered by UNSW*

Colebatch J, Keller P, Rothwell J, Lemieux L. Imaging the human cerebellum during motor learning and timing, Discovery Project (2021-2023), 2021 amount \$280,000

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), 2021 sub-award amount \$70,576

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*

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), 2021 sub-award amount \$258,273

Wang C, Lovell N, Gooding J, Bhaskaran M, Delbaere K, Cheng W, Gu Y, Xi J, Minichiello M, Wu S et al. ARC Research Hub For Connected Sensors For Health, Industrial Transformation Research Hubs (2021-2025), 2021 sub-award amount \$20,000 *Administered by UNSW*

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), 2021 amount \$302,600

Close J. Australian and New Zealand Hip Fracture Registry - support of the registry (2018-2022), 2021 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*

Fullerton J, Mitchell P, Green M, Schofield P, Toma C, Havard A. 45 and Up - Bipolar Disorder Substudy, Biospecimen Collection Grant \$100,000 (2019-2023), *funding paid directly to service providers by NSW Health*

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), 2021 amount \$23,578

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), 2021 amount \$483,187

Shannon Weickert C. NSW Health Chair of Schizophrenia Research (2017-2021), 2021 amount \$500,000

Shannon Weickert C. NSW Health Chair of Schizophrenia Research (2021-2022), 2021 amount \$500,000

Other Funding Bodies

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), 2021 amount \$69,344

Bilston L, Lovell N, Burke P, Brown E. A novel optical stimulation method for Obstructive Sleep Apnoea treatment, UNSW Biomedical Seed Fund (2018-2021), 2021 amount \$97,216

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), 2021 amount \$103,343

Bye E. Registration to ISCOS 2021, SCI Research Collaboration Grants, 2021 amount \$3,000

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

Close J, ANZHFR reporting in relation to performance against the clinical care indicators for hip fracture management, Commonwealth Department of Health (2021-2022), 2021 amount \$300,000.00

Close J. Australian and New Zealand Hip Fracture Registry, Victorian Agency for Health Information, Contract Research (2020-2021), 2021 amount \$25,000

Close J. FALLPREVENT, Oslo Metropolitan University (OsloMet), Collaboration Agreement (2020-2024), 2021 amount \$3,168

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 (2018-2021), *No cost extension to 2021 due to COVID19*

Delbaere K, Taylor M. Ageing Futures Project, Frank Whiddon Masonic Homes of NSW, Contract Research (2020-2022), 2021 amount \$0 (on hold due to COVID)

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

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 (2019-2021), 2021 amount \$1,200,000

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

Gatt J. Supplementary support for research activities which have been, or are being, impacted by the 2021 Covid-19 lockdown, UNSW Science Covid-19 Strategic Support Grant, 2021 amount \$5,000

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*

Hoang P, Lord S, Menant J. Tailored exercise targeting identified weak muscle groups and impaired gait to maximise mobility in people with MS, Project Grant (2021-2023), 2021 amount \$80,000

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) (2020-2022), *No cost extension due to parental leave*

Kenning G, Kuchelmeister V, Delbaere K. A co-design approach to addressing fear of falling and related activity avoidance in older adults, Seed Research Grants, 2021 amount \$28,359

- Kenning G, Kuchelmeister V, Delbaere K. A co-design approach to addressing fear of falling and related activity avoidance in older adults, Faculty Research Support Scheme, 2021 amount \$9,549
- Lavrencic L, Radford K, Donovan T, Allan W, Delbaere K, Draper B, Hindman E. Supporting psychosocial wellbeing with older Aboriginal Australians: Listening to community members' knowledge about Culture and connection, Hal Kendig Research Development Program (2021/2022), amount \$19,967.08
- Lee BSB, McCaughey E, Gandevis 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 (2018-2021), 2021 amount \$40,763
- Lin C-T, Singh AK, Lal S, Sibbritt D, Edels A, Brown S, Gustin S, Newton P. Designing and optimising augmented reality Navy operations heads-up interface based on real-time mental load assessment, DIN Pilot Project Grants, *Administered by UTS*
- Lord S, Delbaere K, Sturnieks D, Sherrington C. NSW Health Ageing and Fall Prevention Network, Clinical Excellence Commission (CEC), Contract Research (2020-2023), 2021 amount \$189,438
- Lord S, Okubo Y. Falls Detection with Wearable Devices in Older People, Contract Research, Google LLC, 2021 amount \$234,000
- 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), 2021 amount \$120,000
- McAuley J. Depression and pain: a feasibility study, Mindgardens Neuroscience Network, Research Projects (2020-2021), 2021 amount \$67,349
- McCaughy E. Abdominal Stimulation to reduce mechanical ventilation duration after spinal cord injury, Perpetual Trustees, Ramaciotti Health Investment Grant (2020-2022) *Funds paid in year 1.*
- McDade E, Brooks W. DIAN-TU Primary Prevention Trial (DIAN-TU PPT). A Phase II/III randomized, double-blind, placebo-controlled, cognitively multi-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*
- Peters R. INTERgenerational Clinical Trial In at risk Older adults and pre-school children (INTERACTION) Translational Research and Capacity Building Program (2021-2022), 2021 amount \$75,000
- Poulos L. Evaluating the culturally responsive elements, effectiveness and transferability of online dementia education and training with Aboriginal and Torres Strait Islander communities, Strategic Innovation Program, 2021 amount \$30,000
- Radford K, Ní Shé E, Cullen P, Lavrencic L, Lewis E, Anstey K, Ivers R. Collaboratory Ageing Meeting Place For Innovative Research and Engagement (CAMPFIRE): A living lab, Seed Research Grants, 2021 amount \$28,996
- Rae C, Hillenbrand C. High definition, MRI compatible EEG for 3T clinical MRI systems, RIIP2018 – Phase II, 2021 amount \$185,000
- Schubert M, Migliaccio A. Ground validation of self-administered incremental rehabilitation tool to mitigate motion sickness and enhance sensorimotor recovery, HERO: Human Health Countermeasures, Behavioral Performance & Space Radiation (2021-2022), 2021 amount \$115,922
- 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), 2021 amount \$29,572
- 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 (2019-2022), 2021 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 (2016-2021), *No cost extension to 2021 due to COVID19*
- 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), 2021 amount \$65,000
- Thomas K, Mueller J, Shepherd C. Developing protocols to measure plastic chemicals in human brain, blood and urine, Minderoo Foundation, Contract research (2021-2022), 2021 amount \$362,727

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

Toma C, Fullerton J, Schofield P. Whole-genome sequencing and pharmacogenomic studies in a large cohort of bipolar patients with electronic administrative health records, CSIC Programme i-LINK+ 2020 (2021-2022), *Administered by Universidad De Cantabria*

Trost Z, Gustin S, Shum C, Richards S, Richardson E, Siddall P, Bolding M, Mark V, Redden D. A Multi-Site Randomized Clinical Trial to Examine the Efficacy and Mechanisms of Immersive Virtual Walking Treatment for Neuropathic Pain in Spinal Cord Injury, DoD Spinal Cord Injury Research Program - Clinical Trial Award (2020-2022), *Administered by Virginia Commonwealth University*

van Schooten K, Delbaere K, Hallen J, Butcher K, Brodaty H, Kohler F, Lovell N. Wearable technology for clinical fall-risk and mobility assessment: care professional education, consensus on clinically relevant outcomes and pathway towards implementation, SHERE Age and Aging (CAG), Implementation and Translation Funding Scheme (EOI), 2021 amount \$27,000

van Schooten K, Delbaere K, Lovell N. Implementation of wearable technology into clinical care: consensus on relevant outcomes and roadmap to actual use, NSW Ageing Futures Institute, Seed Funding Grant, 2021 amount \$26,000

Whyte T, Bilston L, Brown J, Kent N, Albanese B. Addressing child restraint system misuse through design - now and into the future, Department of Infrastructure, Transport, Regional Development & Communications (DITRDC), Road Safety Innovation Fund - Round 2 (2021-2023), 2021 amount \$98,224

Wilson N. Improvisation Engagement and Dementia (ImprovED): A Theatre Programme to Enhance Quality of Life in Older Adults with Cognitive Decline, AAG Research Trust, RM Gibson Program, 2021 amount \$6,815

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*

External Scholarships

- Afzal N. UNSW Scientia PhD Scholarship, (2018-2021), \$42,455
- Ahmadi H. UNSW Tuition Fee Scholarship, (2021-2021), \$28,597
- Aishah A. UNSW Scientia PhD Scholarship, (2018-2021), \$42,455
- Albanese B. Research Training Program, (2018-2021), \$28,597
- Amos J. Research Training Program, (2021-2024), \$28,597
- Biliska K. Research Training Program, (2019-2022), \$28,597
- Blumenfeld R. Research Training Program, (2019-2022), \$28,597
- Cao J. UNSW University International Postgraduate Award, (2018-2021), \$28,597
- Chan L. Research Training Program, (2020-2023), \$28,597
- Chilver M. Research Training Program, (2018-2021), \$14,298
- Chilver M. Science PhD Writing Scholarship, (2021), \$7,500
- Chow B. UNSW Scientia PhD Scholarship, (2019-2022), \$42,455
- Cooray N. UNSW Scientia PhD Scholarship, (2018-2021), \$42,455
- Das A. UNSW International Postgraduate Award, (2018-2021), \$28,597
- Debs SR. Research Training Program, (2019-2022), \$28,597
- Dias K-R. Research Training Program, (2019-2022), \$28,597
- Ee N. Westpac Future Leaders Scholarship, (2019-2022), \$28,522
- Ee N. Research Training Program, (2019-2022), \$28,597
- Epiu I. UNSW Scientia PhD Scholarship, (2018-2022), \$42,455
- Fagerlind H. UNSW University International Postgraduate Award, (2018-2021), \$14,298
- Ferraro M. Research Training Program, (2021-2024), \$28,597
- Finlay E. Research Training Program, (2018-2021), \$14,298
- Fletcher L. Research Training Program, (2021-2024), \$28,597
- Han DU. Research Training Program, (2021-2023), \$28,597
- Hatami M. UNSW Tuition Fee Scholarship, (2020-2023), \$28,597
- Hatami M. Transurban Limited Internal Scholarship, (2020-2023), \$1,666
- Hesam Shariati S. University International Postgraduate Award, (2018-2022), \$28,092
- Jamshidi J. UNSW Scientia PhD Scholarship, (2018-2021), \$42,455

- Jezewski R. UNSW Scientia Scholarship, (2018-2022), \$42,455
- Joushani HAN. ARC ITTC scholarship, (2021-2023) \$33413
- Katz M. Research Training Program, (2019-2022), \$28,597
- Knapman F. Research Training Program, (2019-2022), \$28,597
- Lam J. Research Training Program, (2020-2024), \$28,597
- Lewis E. UNSW Scientia PhD Scholarship, (2020-2023), \$42,455
- Lian J. Research Training Program, (2020-2023), \$28,597
- Lam J. Research Training Program, (2020-2024), \$28,597
- Lim ML. NHMRC Postgraduate Research Scholarship, (2019-2021), \$37,158
- Lim R. UNSW University Postgraduate Award, (2017-2020), \$6,693
- Liu Y. Research Training Program, (2020-2024), \$28,597
- Livings R. STREAM Health PhD scholarship, (2018-2021), \$15,000
- Mahfuz MM. UNSW University Postgraduate Award, (2017-2020), \$28,092
- Martinac A. Research Training Program, (2020-2024), \$28,597
- Mathew A. UNSW Tuition Fee Scholarship, (2020-2023), \$28,597
- Mathew NE. Research Training Program, (2019-2022), \$28,597
- McCaffrey D. Research Training Program, (2021-2024), \$28,597
- Millard S. University International Postgraduate Award, (2020-2023), \$28,597
- Phu S. NHMRC Postgraduate Scholarship, (2021-2023), \$36,211
- Rizzo RRN. UNSW Tuition Fee Scholarship, (2019-2022), \$28,597
- Robertson L. Research Training Program, (2021-2024), \$28,597
- Sharma D. University International Postgraduate Award, (2019-2023), \$28,597
- Tonini E. Research Training Program, (2019-2022), \$28,597
- Wewege M. NHMRC Postgraduate Scholarship, (2020-2022), \$37,821
- Xie Y. UNSW Scientia PhD Scholarship, (2020-2023), \$42,455
- Zhang L. ARC ITTC scholarship, (2021-2023), \$33413
- Zhou S. Research Training Program, (2021-2024), \$28,597
- Zhu J. Research Training Program, (2020-2023), \$28,597

COLLABORATION

Between 2016-2021 NeuRA researchers have produced 1,991 publications (excluding books and chapters).
 (Source: SciVal 30/5/2022)

COLLABORATION

Between 2016-2021 NeuRA researchers collaborated with institutions all over the world. Here's where our top 100 collaborating institutions are and how many co-authored publications we had.
 (Source: SciVal 30 May 2022)

 Collaborating institutions

 Co-authored publications

North America

 545

 22 USA
 5 Canada

South America

 96

Africa

 44

 South Africa 1

Middle East

 60

Europe

 710

 4 France 4 Spain
 8 Germany 2 Ireland
 1 Norway 1 Switzerland
 9 UK 8 Netherlands
 2 Sweden

Asia Pacific

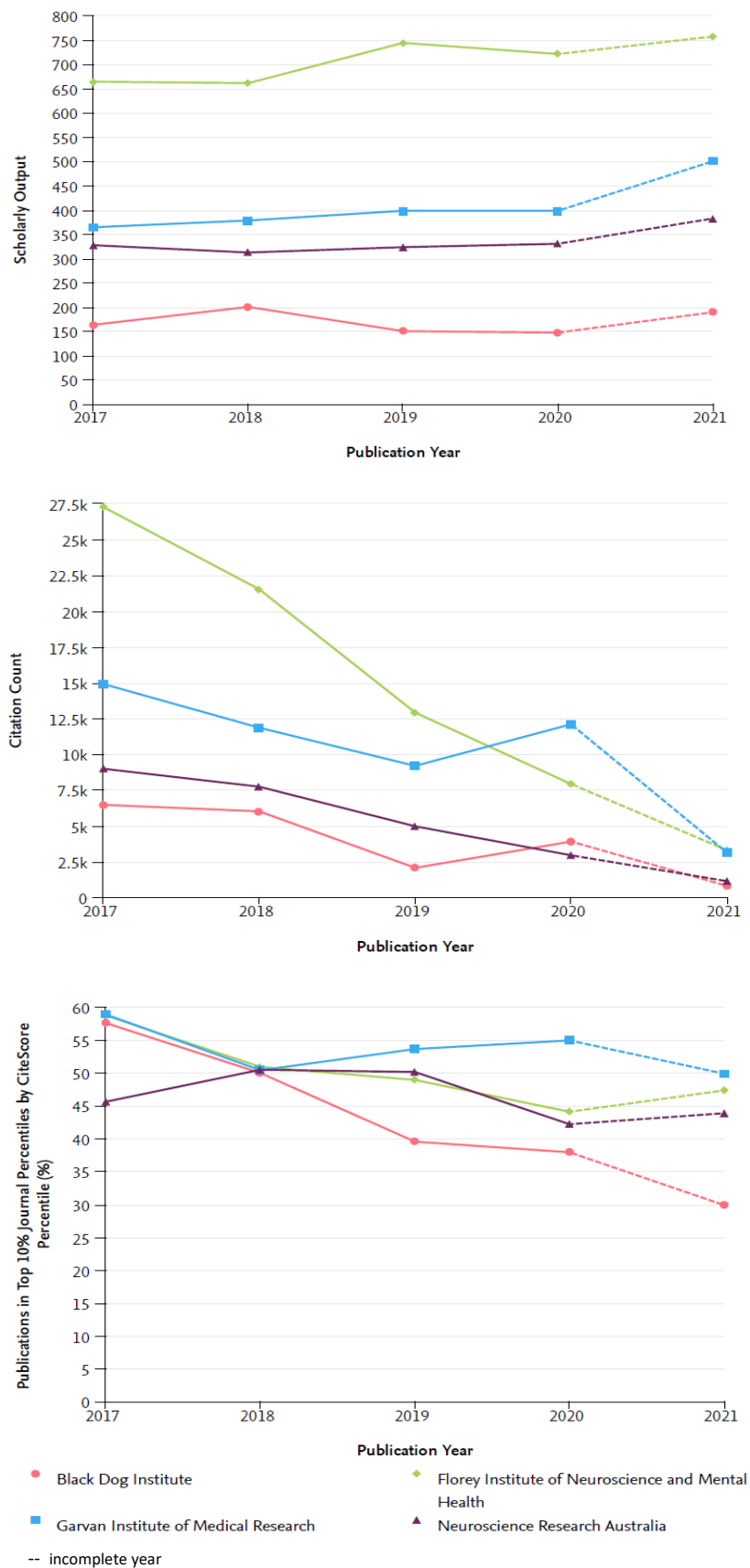
 1,810

 1 Singapore
 32 Australia

18 NSW 3 SA 1 ACT
 4 VIC 3 WA 3 QLD

BENCHMARKING

Source: SciVal 23/05/2022

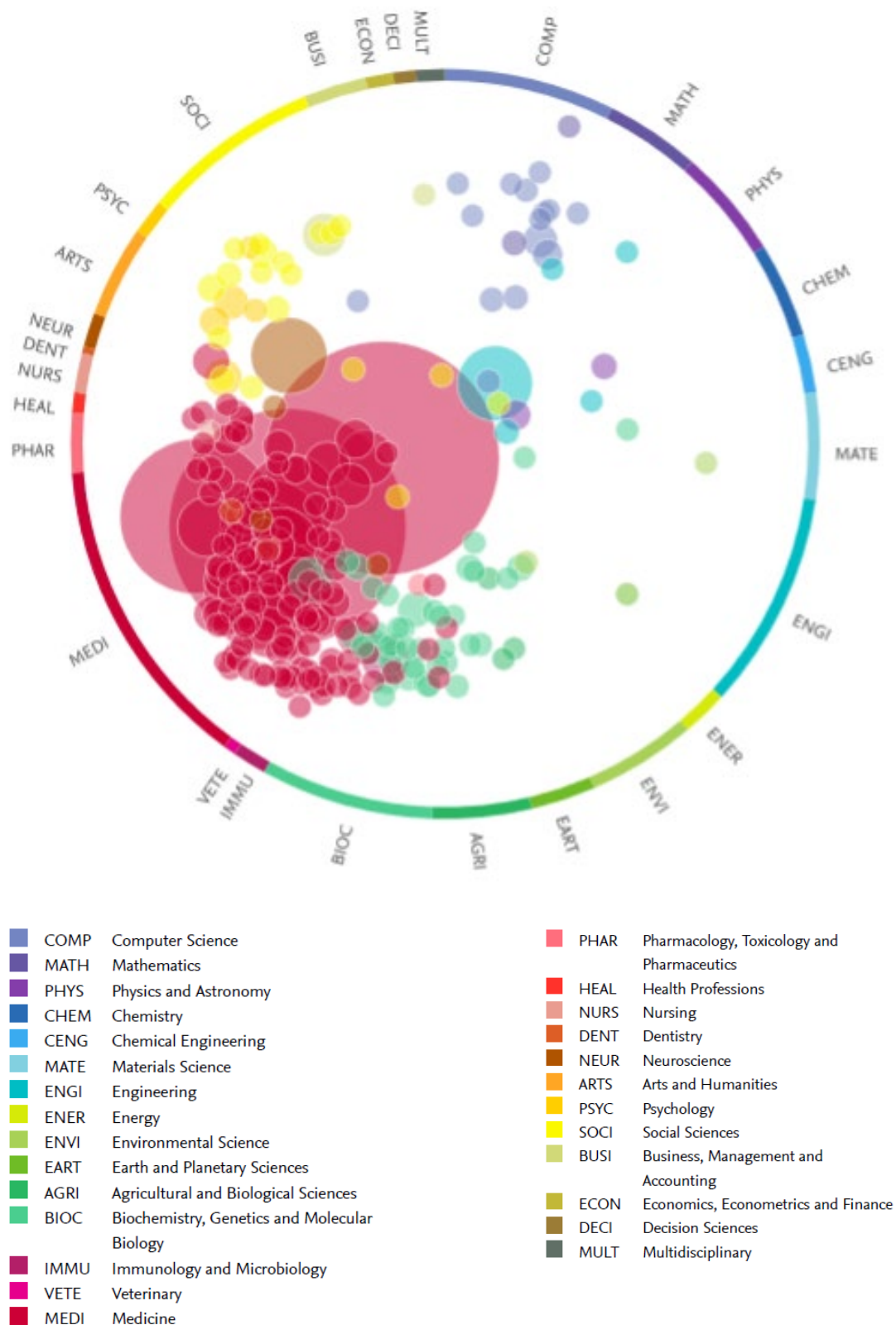


Topics and Topic Clusters

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 738 topics in 243 topic clusters between 2016 - 2021.

Source: SciVal 20/05/2022



PUBLICATIONS

Books

1. **Lord S**, Sherrington C, Naganathan V. *Falls in Older People: Risk Factors, Strategies for Prevention and Implications for Practice*. Third Edition, Cambridge: Cambridge University Press, ISBN 9781108594455, 2021
2. **Paxinos G**. *A River Divided*. Hardie Grant Media (Melbourne), ISBN: 9780646846651, 2021
3. **Paxinos G, Kassem MS** Kirkcaldie M, Carrive P. *Chemoarchitectonic Atlas of the Rat Brain*, Third Edition, Academic Press, SBN: 9780128189597, 2021
4. **Paxinos, G**, Petrides, M and Ervrad, H. *The Rhesus Monkey Brain in Stereotaxic Coordinates*, 4th Edition, Academic Press, ISBN: 9780128158524, 2021
5. Watson C, Sengul G **Paxinos G**. *The Mammalian Spinal Cord*, 1st Edition. Academic Press, San Diego, ISBN: 9780128141465, 2021

Journal articles

6. Adhikari UK, Sakiz E, Habiba U, Mikhael M, Senesi M, David MA, Guillemin GJ, Ooi L, **Karl T**, Collins S, Tayebi M. Treatment of microglia with Anti-PrP monoclonal antibodies induces neuronal apoptosis *in vitro*. *Heliyon*, 7(12):e08644, 2021. doi: 10.1016/j.heliyon.2021.e08644
7. Adhikari UK, Sakiz E, Zhou X, Habiba U, Kumar S, Mikhael M, Senesi M, Guang Li C, Guillemin GJ, Ooi L, David MA, Collins S, **Karl T**, Tayebi M. Cross-Linking Cellular Prion Protein Induces Neuronal Type 2-Like Hypersensitivity. *Frontiers in Immunology*, 12:639008, 2021. doi: 10.3389/fimmu.2021.639008
8. Ahluwalia TS, Prins BP, Abdollahi M, Armstrong NJ, Aslibekyan S, Bain L, Jefferis B, Baumert J, Beekman M, Ben-Shlomo Y, Bis JC, Mitchell BD, de Geus E, Delgado GE, Marek D, Eriksson J, Kajantie E, Kanoni S, Kemp JP, Lu C, Marioni RE, McLachlan S, Milaneschi Y, Nolte IM, Petrelis AM, Porcu E, Sabater-Lleal M, Naderi E, Seppälä I, Shah T, Singhal G, Standl M, Teumer A, Thalamuthu A, Thiering E, Trompet S, Ballantyne CM, Benjamin EJ, Casas JP, Toben C, Dedoussis G, Deelen J, Durda P, Engmann J, Feitosa MF, Gyllert H, Hammarstedt A, Harris SE, Homuth G, Hottenga JJ, Jalkanen S, Jamshidi Y, Jawahar MC, Jess T, Kivimäki M, Kleber ME, Lahti J, Liu Y, Marques-Vidal P, Mellström D, Mooijaart SP, Müller-Nurasyid M, Penninx B, Revez JA, Rossing P, Räikkönen K, Sattar N, Scharnagl H, Sennblad B, Silveira A, Pourcain BS, Timpson NJ, Trollor J; CHARGE Inflammation Working Group, van Dongen J, Van Heemst D, Visvikis-Siest S, Vollenweider P, Völker U, Waldenberger M, Willemssen G, Zabaneh D, Morris RW, Arnett DK, Baune BT, Boomsma DI, Chang YC, Deary IJ, Deloukas P, Eriksson JG, Evans DM, Ferreira MA, Gaunt T, Gudnason V, Hamsten A, Heinrich J, Hingorani A, Humphries SE, Jukema JW, Koenig W, Kumari M, Kutalik Z, Lawlor DA, Lehtimäki T, März W, **Mather KA**, Naitza S, Nauck M, Ohlsson C, Price JF, Raitakari O, Rice K, Sachdev PS, Slagboom E, Sørensen TIA, Spector T, Stacey D, Stathopoulou MG, Tanaka T, Wannamethee SG, Whincup P, Rotter JI, Dehghan A, Boerwinkle E, Psaty BM, Snieder H, Alizadeh BZ. Genome-wide association study of circulating interleukin 6 levels identifies novel loci. *Human Molecular Genetics*, 30(5):393-409, 2021. doi: 10.1093/hmg/ddab023
9. **Aishah A, Lim R**, Sands SA, Taranto-Montemurro L, Wellman A, **Carberry JC, Eckert DJ**. Different antimuscarinics when combined with atomoxetine have differential effects on obstructive sleep apnea severity. *Journal of Applied Physiology*, 130(5):1373-1382, 2021. doi: 10.1152/jappphysiol.01074.2020
10. Akella A, Singh AK, Leong D, Lal S, Newton P, Clifton-Bligh R, McLachlan CS, **Gustin SM**, Maharaj S, Lees T, Cao Z, Lin CT. Classifying Multi-Level Stress Responses From Brain Cortical EEG in Nurses and Non-Health Professionals Using Machine Learning Auto Encoder. *IEEE Journal of Translational Engineering in Health and Medicine*, 9:2200109, 2021. doi: 10.1109/JTEHM.2021.3077760
11. **Alexander R**, Aragón OR, Bookwala J, Cherbuin N, **Gatt JM**, Kahrilas IJ, Kästner N, Lawrence A, Lowe L, Morrison RG, Mueller SC, Nusslock R, Papadelis C, Polnaszek KL, Helene Richter S, Siltan RL, Styliadis C. The neuroscience of positive emotions and affect: Implications for cultivating happiness and wellbeing. *Neuroscience and Biobehavioral Reviews*, 121:220-249, 2021. doi: 10.1016/j.neubiorev.2020.12.002
12. **Allen B**, Canuto K, Evans JR, Lewis E, Gwynn J, **Radford K, Delbaere K**, Richards J, Lovell N, Dickson M, Macniven R. Facilitators and Barriers to Physical Activity and Sport Participation Experienced by Aboriginal and Torres Strait Islander Adults: A Mixed Method Review. *International Journal of Environmental Research and Public Health*, 18(18):9893, 2021. doi: 10.3390/ijerph18189893
13. Amare AT, Schubert KO, Hou L, Clark SR, Papiol S, Cearns M, Heilbronner U, Degenhardt F, Tekola-Ayele F, Hsu YH, Shekhtman T, Adli M, Akula N, Akiyama K, Ardaur R, Arias B, Aubry

- JM, Backlund L, Bhattacharjee AK, Bellivier F, Benabarre A, Bengesser S, Biernacka JM, Birner A, Brichant-Petitjean C, Cervantes P, Chen HC, Chillotti C, Cichon S, Cruceanu C, Czerski PM, Dalkner N, Dayer A, Del Zompo M, DePaulo JR, Étain B, Jamain S, 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, Jiménez E, Kahn JP, Kassem L, Kuo PH, Kato T, Kelsoe JR, Kittel-Schneider S, Kliwiczki S, König B, Kusumi I, Laje G, Landén M, Lavebratt C, Leboyer M, Leckband SG, Tortorella A, Manchia M, Martinsson L, McCarthy MJ, McElroy SL, 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*, 26(6):2457-2470, 2021. doi: 10.1038/s41380-020-0689-5
14. Andlauer TFM, Guzman-Parra J, Streit F, Strohmaier J, González MJ, Gil Flores S, Cabaleiro Fabeiro FJ, Del Río Noriega F, Perez FP, Haro González J, Orozco Diaz G, de Diego-Otero Y, Moreno-Küstner B, Auburger G, Degenhardt F, Heilmann-Heimbach S, Herms S, Hoffmann P, Frank J, Foo JC, Treutlein J, Witt SH, Cichon S, Kogevinas M; Bipolar Disorder Working Group of the Psychiatric Genomics Consortium [including **Fullerton JM**, **Shannon Weickert C**]; Major Depressive Disorder Working Group of the Psychiatric Genomics Consortium, Rivas F, Mayoral F, Müller-Myhsok B, Forstner AJ, Nöthen MM, Rietschel M. Bipolar multiplex families have an increased burden of common risk variants for psychiatric disorders. *Molecular Psychiatry*, 26(4):1286-1298, 2021. doi: 10.1038/s41380-019-0558-2
15. **Andrews SC**, Langbehn DR, Craufurd D, Durr A, Leavitt BR, Roos RA, Tabrizi SJ, Stout JC; TRACK-HD Investigators. Apathy predicts rate of cognitive decline over 24 months in premanifest Huntington's disease. *Psychological Medicine*, 51(8):1338-1344, 2021. doi: 10.1017/S0033291720000094
16. **Anstey KJ**, Butterworth P, Christensen H, Eastaugh S, Cherbuin N, Leach L, Burns R, **Kiely KM**, **Mortby ME**, **Eramudugolla R**, **Gad I**. Cohort Profile Update: The PATH Through Life Project. *International Journal of Epidemiology*, 50(1):35-36, 2021. doi: 10.1093/ije/dyaa179
17. **Anstey KJ**, **Ehrenfeld L**, **Mortby ME**, Cherbuin N, **Peters R**, **Kiely KM**, **Eramudugolla R**, **Huque MH**. Gender differences in cognitive development in cohorts of young, middle, and older adulthood over 12 years. *Developmental Psychology*, 57(8):1403-1410, 2021. doi: 10.1037/dev0001210
18. **Anstey KJ**, **Peters R**, **Mortby ME**, **Kiely KM**, **Eramudugolla R**, Cherbuin N, Huque MH, Dixon RA. Association of sex differences in dementia risk factors with sex differences in memory decline in a population-based cohort spanning 20-76 years. *Scientific Reports*, 11(1):7710, 2021. doi: 10.1038/s41598-021-86397-7
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21. Atkins KJ, **Andrews SC**, Chong TT, Stout JC. Multidimensional Apathy: The Utility of the Dimensional Apathy Scale in Huntington's Disease. *Movement Disorders Clinical Practice*, 8(3):361-370, 2021. doi: 10.1002/mdc3.13147
22. **Aung HL**, Aghviniyan M, Ghouse H, Robbins RN, Brew BJ, Mao L, **Cysique LA**. Is There Any Evidence of Premature, Accelerated and Accelerated Aging Effects on Neurocognition in People Living with HIV? A Systematic Review. *Aids and Behavior*, 25(3):917-960, 2021. doi: 10.1007/s10461-020-03053-3
23. **Aung HL**, Bloch M, Vincent T, Quan D, Jayewardene A, Liu Z, Gates TM, Brew B, Mao L, **Cysique LA**. Cognitive ageing is premature among a community sample of optimally treated people living with HIV. *HIV Medicine*, 22(3):151-164, 2021. doi: 10.1111/hiv.12980
24. **Babaei B**, Fovargue D, **Lloyd RA**, Miller R, **Jugé L**, **Kaplan M**, Sinkus R, Nordsletten DA, **Bilston LE**. Magnetic Resonance Elastography Reconstruction for Anisotropic

- Tissues. *Medical Image Analysis*, 74:102212, 2021. doi: 10.1016/j.media.2021.102212
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26. **Bagg MK**, Lo S, **Cashin AG**, **Herbert RD**, O'Connell NE, **Lee H**, **Hübscher M**, Wand BM, **O'Hagan E**, **Rizzo RRN**, **Moseley GL**, **Stanton TR**, Maher CG, Goodall S, Saing S, **McAuley JH**. The RESOLVE Trial for people with chronic low back pain: statistical analysis plan. *Brazilian Journal of Physical Therapy*, 25(1):103-111, 2021. doi: 10.1016/j.bjpt.2020.06.002
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RECOGNITION

Prizes and Awards received in 2021

Name	Award	Awarding body
Cyndi Shannon Weickert	SIRS 2021 Honoric Award for Outstanding Translational Research	Schizophrenia International Research Society (SIRS)
Hafiz Malik Naqash Afzal	People's Choice Prize - 3 Minute Thesis, Faculty of Medicine Heats	UNSW 3MT
Louise Lavrencic	Postdoc/Early Career 2021 Early Career Award winner	Alzheimer's Association ISTAART
Fiona Knapman	2021 POWCS Postgraduate Seminar - best oral presentation	POWCS
Anita Nitchingham	2021 POWCS Postgraduate Seminar - best poster presentation	POWCS
Louise Lavrencic	Commendation award for outstanding research	Bupa Foundation
Rob Lloyd	Young Investigator Award	Australasian Biomechanics Conference
Ingvars Birznieks	Major Prize Winner	Bionics Queensland Ltd
Jess Amos	Helen & Emanuel Poteris Award	NeuRA
Lawrence Chung	Daniel Beck Memorial Award	NeuRA
Hayley North	Don and Warwick McDonald Award	NeuRA
Jessica Chandra	RiSe Seed and Water Research Award for the most competitive runner-up submission	NSW Schizophrenia Research Group
James Lian	Student Equity, Diversity, and Inclusion Award	UNSW Faculty of Science
Jess Amos	2021 PhD Pitch	UNSW Ageing Futures Institute
Shally Zhou	Best 1-Minute Thesis video presentation	UNSW Science Postgraduate Research Showcase
Nikki-Anne Wilson	Faculty of Science Postgraduate Research Prize	University of Sydney
Bart Bolsterlee	Travel Award for Early-Mid Career Researchers to attend ISB 2021	Australian and New Zealand Society of Biomechanics

TRANSLATION STORIES

SHAPE (Self-management and Health Promotion in early-stage dementia with E-learning for carers) – Prof Kaarin Anstey

Excerpt from NeuRA media release 12 July 2021.

In a world-first, researchers at Neuroscience Research Australia (NeuRA) are trialling an online intervention for people with early-stage dementia with the aim of improving self-management techniques.

A multi-site trial in collaboration with Norway and the UK, the SHAPE (Self-management and Health Promotion in early-stage dementia with E-learning for carers) trial aims to support people living with mild to moderate dementia manage their diagnosis, as well as educating their loved ones.

Currently, more than 500,000 people in Australia have dementia with 250 new diagnoses each day. These diagnoses are expected to rise to over 300 per day within the next five years.

The demand on General Practitioners (GPs) is also high, with expectations for GPs to conduct dementia screening and assessment procedures, coordinate specialist health care services, counsel family caregivers, and plan for the future, all within constrained time.

SHAPE will test whether an online training and support group for people in the early stages of dementia, together with an e-learning programme for carers, can help to improve a person's ability to cope with the condition.

Professor Kaarin Anstey, Senior Principal Scientist at NeuRA and Director of UNSW Ageing Futures Institute, says their objective is to place people with early dementia at the centre of their care, providing a high quality, low-threshold health care solution.

“Our aim with SHAPE is to provide individuals with early dementia, and their families, with access to knowledge and support, so they are better able to manage their own health and wellbeing, and the changes that occur,” she said.

Results from previous research show self-management groups are beneficial for people with early stage dementia. However, this intervention has never been conducted online.

Participants in the trial will either receive the ‘SHAPE intervention’ or a control. The intervention involves an online group session once a week for 10 weeks, where each participant will be given an easy-to-use iPad to join these sessions. Additionally, family members and friends will have access to an e-learning programme.

People in the control group will receive a placebo programme but will have access to the official elearning programme, containing the study materials, after the trial is complete.

If successful, researchers hope the trial will inform the type and standard of care that individuals and families receive following a diagnosis of dementia.

SHAPE is an EU Joint Programme – Neurodegenerative Disease Research project (JPND). Researchers received funding from the National Health and Medical Research Council (NHMRC) to run the Australian site.

For more information about the SHAPE trial or to enlist, please visit neura.edu.au/project/shape.