

Research Report 2018



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 one of the largest independent centres of research on the brain and nervous system in Australia, based in Randwick, Sydney. Recognised as an international leader in research, NeuRA is 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 over 300 staff and students in 44 neuroscience research teams spread across five broad themes. NeuRA is an independent, not-for-profit, medical research institute. It is affiliated with the University of New South Wales and South Eastern Sydney Local Health District.

Our Values

Ethics, Enquiry, Human Impact, Respect, Excellence, Accountability

<i>Ethics</i>	the moral principles that influence and govern our conduct
<i>Enquiry</i>	our constant pursuit of knowledge and understanding
<i>Human Impact</i>	our desire to make a genuine positive human health impact
<i>Respect</i>	we respect the feelings and rights of all human beings, and admire their achievements
<i>Excellence</i>	we will achieve the very best possible
<i>Accountability</i>	we are accountable for our actions and decisions

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, frontotemporal dementia and other dementias, Parkinson’s disease, Motor Neurone Disease, ageing research in indigenous populations, stroke rehabilitation
<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 in children
<i>Mental Illness:</i>	schizophrenia, bipolar disorder, depression and autism
<i>Sensation, Movement, Balance & Falls:</i>	human movement, fatigue, sleep apnoea, balance and vision, neural control of muscles, falls in older adults, chronic pain

NeuRA houses several specialist research facilities, including the Sydney Brain Bank. The institute has an on-site 3T MRI imaging research facility.

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 FRACP, is Deputy Director and was one of four foundation scientists.

Governance

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 Eastern Sydney Area Health Service.

The Mindgardens Alliance Establishment Agreement was signed on 22 December 2017 and was passed by board resolution on 8 February 2018. As a consequence, seven directors resigned and were replaced with six 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.

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 from the State via the NSW Minister for Medical Research. There are eight positions for independent directors, and the CEO is also a director. The Chairman is John Grill, BSc BE(Hons) Hon DEng, Chairman of WorleyParsons 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.

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 2018 calendar year from 171 active grants from 55 funding bodies, totalled \$21.79 million. The most significant funding body is the NHMRC which awarded \$12.53 million in 2018. This includes 19 Research and Postdoctoral Fellowships, 35 Research and Targeted Grants, 3 Centres of Research Excellence, 2 Program Grants and involved in 4 Partnerships Grants. The Australian Research Council awarded \$1.42 million in 2018 through involvement in 2 Centres of Research Excellence and 7 Project Grants.

Through the NSW Government's Medical Research Support Program, NeuRA secured \$4.2 million in 2018. NeuRA also received \$3 million in 2018 from UNSW for research infrastructure.

The NeuRA Foundation was established in 2007 to enhance philanthropic fundraising to underpin the activities of the institute. The Foundation raised \$4.9 million in philanthropic support in 2018. To date, it has raised \$50 million.

Total income in 2018 was \$28.2 million and operational expenditure was \$24.7 million.

The Neuroscience Research Precinct

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. The building provides 8,165m² of new, purpose-built space, more than doubling our existing research space. Funding of over \$70 million has been 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. With the current support of NSW Government and philanthropic funding, fit-out of the remaining floors of the building is complete.

The new building forms the first stage of a four stage development to create a larger Neuroscience Research Precinct, the Mindgardens project. The precinct development has secured full project planning approvals and will allow the consolidation of the many neuroscience research strengths from the UNSW and the POW Hospital campuses. Once fully developed, the precinct will provide six stories of research space, 25,000m² floor space and be able to house up to 700 researchers

2018 AT A GLANCE

Public & Community Involvement



Over 100 healthy research volunteer registry participants in 11 new research projects

Over 850 participating in in-home technology-based falls prevention programs



116 attended sleep clinics

45 brain and 18 spinal cord donations producing > 5500 samples for research projects



538 attended 72 private or small tours of NeuRA

Social Media Engagement



Website page views
 NeuRA: 385,578,
 NeuRATalks: 20,203

4,358
 LinkedIn
 followers



102 videos
 uploaded in
 2018,
 25,843
 views

6,550
 tweets



14,079
 facebook
 followers

45,812
 views of
 NeuRATalks
 videos



410
 Instagram
 followers

Performance



171 active awards
 from 55 funding
 bodies

20 clinical research trials
 underway



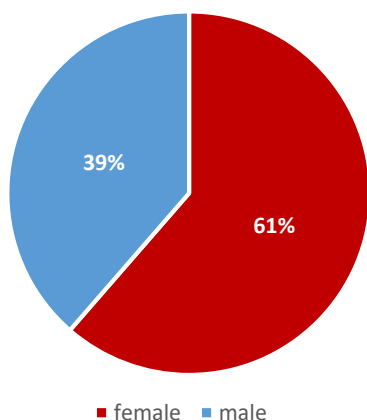
322 publications

27,597 Heads at Work
 Mental Health eBook
 downloads

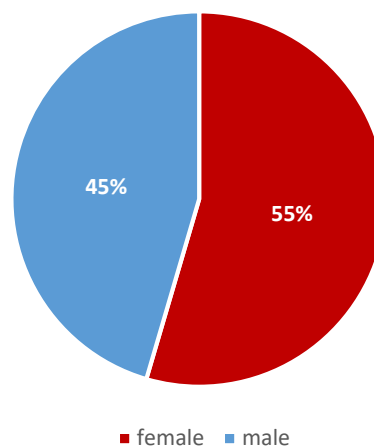


OUR PEOPLE

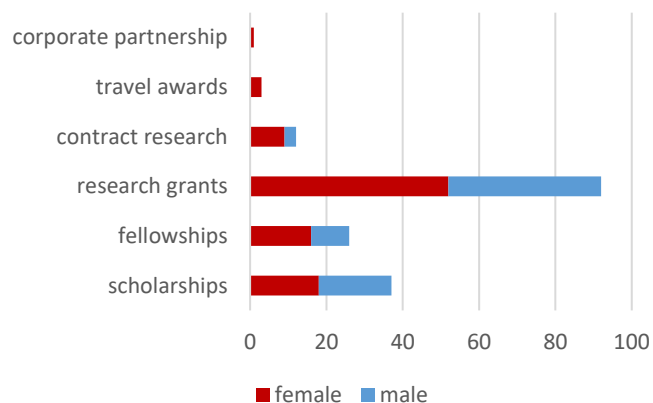
2018 All staff and students by gender



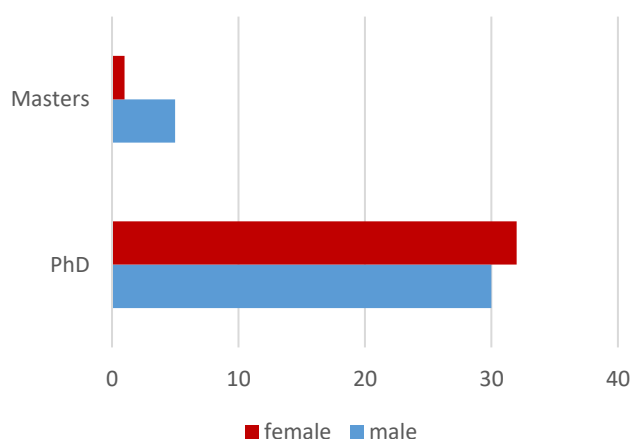
2018 Team Leaders by gender



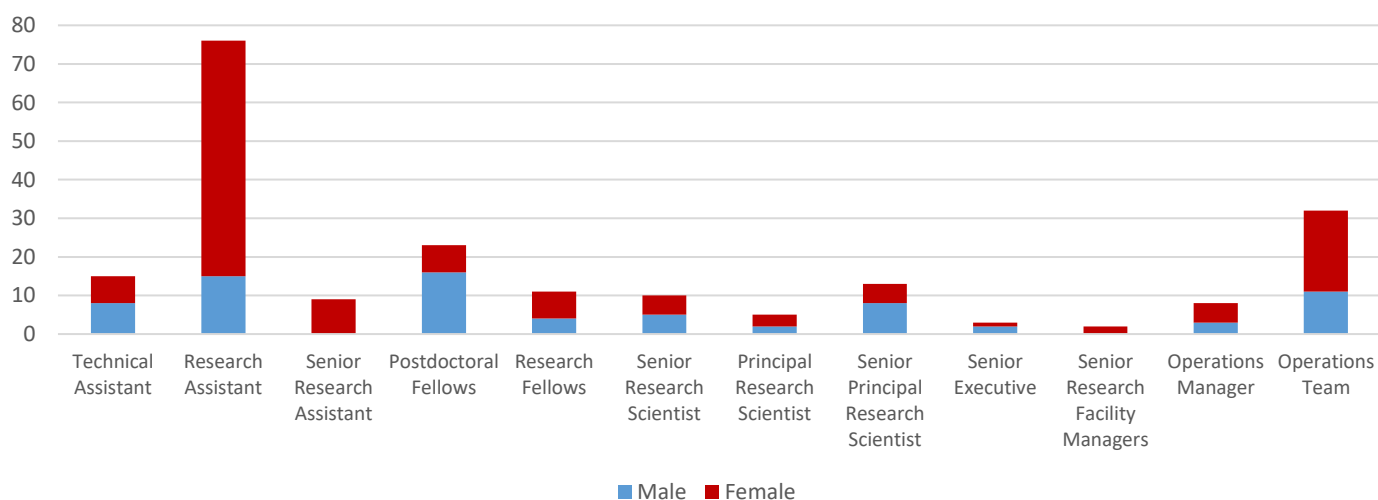
2018 funding award types by CIA gender



2018 HDR students by gender



2018 Staff by Category



2018 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 2018:

National Health and Medical Research Council

Anstey K. Principal Research Fellowship (2016-2020), 2018 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), 2018 amount \$533,645.02

Anstey K, Wood J. Validation of evidence-based screening instruments to identify unsafe older drivers and prevent injury (DASH Driving Study), Project Grant (2013-2018), 2018 amount \$101,537

Bilston LE. Senior Research Fellowship B (2015-2019), 2018 amount \$135,162

Bilston LE, Burke P, McMullan S. A novel optical stimulation method for Obstructive Sleep Apnoea Treatment, Project Grant (2018-2020), 2018 amount \$125,341.50

Brew B, Cysique L. Identification and quantification of HIV Latency biomarkers in the Central Nervous System, Project Grant (2016-2019) *Administered by UNSW, St Vincents Clinical School*

Brodaty H, Valenzuela M, Sachdev P, McNeill J, Maeder A, Lautenschlager N, Jorm L, Fiore Singh M, Anstey K, Andrews G. Maintain your Brain, Dementia Research team Grant (2016-2020), 2018 amount \$1,301,095

Brodaty H, Anstey K, Beattie E. Dementia Centre for Research Collaboration (2018-2020), 2018 amount \$2,000,000, *Administered by UNSW, School of Psychology*

Brown J. Industry Career Development Fellowship Level 2 (2017-2020), 2018 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), 2018 amount \$254,163.60

Brown J. Preventing injury through evidence based product design, standards & guidelines for use, Industry Career Development Fellowship Level 2 (2017-2020), 2018 amount \$117,536.00

Butler J. Senior Research Fellowship A (2014-2018), 2018 amount \$118,157

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), 2018 amount \$123,606

Butterworth P, Anstey K, Cherbuin N, McKetin R, Burns R, Leach L, Slade T, McNamee P. Mental health and the PATH to Midlife, Project Grant (2016-2018), 2018 amount \$155,182

Delbaere K. Using technology towards effective self-management of fall risk in older adults, Career Development Fellowship (Level 2) – Industry (2016-2019), 2018 amount \$115,913

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), 2018 amount \$497,542.10

Delbaere K, Clemson L, Close J, Zijlstra R. Evaluating "Standing Tall" – an engaging home-based exercise program using mobile technology for maximizing long-term adherence and preventing falls in older people: randomized controlled trial, Project Grant (2015-2018), 2018 amount \$162,910

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), 2018 amount \$380,251.10

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*

Eckert D. Senior Research Fellowship A (2017-2021), 2018 amount \$126,274

Gandevia SC. Senior Principal Research Fellowship + SEO (2015-2019), 2017 amount \$182,383

Gandevia SC, Lord SR, Herbert R, Taylor JL. Motor Impairment: Basic and applied human neurophysiology, Program Grant (2014-2018), 2018 amount \$1,366,196

Gatt J, Turner R, Williams L. Neural trajectories towards vulnerability versus resilience: A longitudinal twin study Project Grant (2017-2021), 2018 amount \$244,611.75

Goodchild A, McMullan S, Burke P, Dampney R, Cornish J. Light, sound and touch influence the autonomic nervous system via a non-canonical pathway, Project Grant (2017-2019), *Administered by Macquarie University*

Goodnow C, Craig M, Roscioli T, Andrews T, Gunton J, Deenick E, Wong M, Gray P, Teo J. De novo mutations and the pathogenesis of childhood-onset autoimmune disease, Project Grant (2016-2019), *Administered by the Garvan Institute*

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*

Grunstein R, Rajaratnam SW, Naismith S, Eckert D, Lewis S, Glozier N, Cistulli P, Wong K, Marshall N, Robinson P. NeuroSleep: the Centre for Translational Sleep and Circadian Neurobiology, Centre for Research Excellence (CRE) (2013-2017), 2018 NeuRA sub-contract \$62,409

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), 2018 sub award amount \$102,377.59

Harvey L. Causes, consequences and costs of injury-related hospitalisations for people with dementia: identifying opportunities for prevention and enhanced management, Early Career Fellowships (ECF) - Australian Public Health & Health Services Fellowship (2015-2018), 2018 amount \$77,359

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 (2015-2019), *Administered by the University of Sydney*

Herbert R. Principal Research Fellowship (PRF) (2017-2021), 2018 amount \$167,769

Hodgson D, Michie P, Shannon Weickert C, Harms L, Schall U, Todd J. Maternal immune activation and adolescent exposure to cannabis in rodents: Do two developmental "hits" lead to schizophrenia-like changes in brain and behaviour? Project Grant (2016-2018), *Administered by University of Newcastle*

Karl T, Shannon Weickert C. Neuregulin 1 Type III Overexpression and Schizophrenia, Project Grant (2016-2019), 2018 sub-award amount \$121,647.51

Kiely K. Estimating and alleviating the impacts of age-related sensory decline, Early Career Fellowship (2018-2019), 2018 amount \$81,798.76

Kurrle S, Close J. NHMRC Partnership Centre for Cognitive and Related Functional Decline in Older People, Partnership Centres for Better Health: Cognitive Decline (2017-2018), 2018 amount \$147,530

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), 2018 amount \$106,973.67

Lord S. Fall prevention in older people and those with neurodegenerative disorders, Senior Principal Research Fellowship (2017-2021), 2018 amount \$187,782

McAuley J, Moseley L, Maher C, Goodall S, Wand B, Stanton N. Resolve: A new treatment - sensorimotor retaining with explaining pain - for chronic low back pain, Project Grant (2015-2018), 2018 amount \$86,609.70

McCaughey E. Translation of Abdominal Functional Electrical Stimulation from a research tool to clinical practice, Peter Doherty - Australian Biomedical Fellowship (2017-2020), 2018 amount \$79,692

Macefield V, Henderson L. Brain imaging of cardiovascular control during muscle pain, Project Grant (2016-2018) 2018 amount \$93,661

Mortby M. BPSD-CARE: A person-centred approach to managing behavioural and psychological symptoms of dementia in residential care, NHMRC-ARC Dementia Research Development Fellowships (2016-2019), *Administered by UNSW, School of Psychology*

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

Paxinos G, Schira M. Caress the Detail: A Comprehensive MRI Atlas of the in Vivo Human Brain, Project Grant (2018-2020), 2018 amount \$83,663

Radford K. Ageing and dementia in Aboriginal Australians: promoting vitality, identifying decline and supporting communities, Dementia Research Development Fellowships (2016-2019) 2018 amount \$212,838.80

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), 2018 amount \$654,539.20

Roscioli T. Transforming the diagnosis and management of severe neurocognitive disorders through genomics, Centres of Research Excellence (2017-2021), 2018 amount \$399,695.48

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*

Sachdev P, Mather K, Thalamuthu A, Armstrong N, Brodaty H. A European DNA bank for deciphering the missing heritability of Alzheimer's disease (EADB), Project Grant (2016-2018), 2018 amount \$187,336

Sachdev P, Mather K, Thalamuthu A, Wen W, Armstrong N. BRIDGET: BRain imaging, cognition, Dementia, and next generation GENomics: a Transdisciplinary approach to search for risk and protective factors of neurodegenerative disease, Program Grant (2016-2018), 2018 amount \$140,498.50

Schabrun S, Graven-Nielsen T, Seminowicz D. The physiological basis of motor adaptation in pain. Project Grant (2018-2020), 2018 amount \$83,948.33

Schabrun S. An integrated multi-system approach to understanding persistent pain, Career Development Fellowship (CDF Level 1) (2016-2019), 2018 amount \$60,254.47

Schofield D, Roscioli T, Mattick J, Dinger M, Kasparian N, Barlowe-Stewart K, Cowley M, Field M, Buckley M, Shrestha R. The economic and social impacts of genetic sequencing for intellectual disability, Partnership Project for Better Health (2015-2019), *Administered by the University of Sydney*

Schofield D, Sue C, Roscioli T, Mattick J, Dinger M, Shrestha 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*

Shannon Weickert C. Neurobiology of schizophrenia and translation into new treatments, Reapplication with Promotion to Principal Research Fellowship (PRF) (2017-2021), 2018 amount \$152,769

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 (2015-2019), 2018 amount \$282,114

Taylor M. Understanding and preventing physical and cognitive decline and falls in older people with dementia, Dementia Research Development Fellowships (2016-2019) 2018 amount \$148,730.70

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), 2018 amount \$400,120.40

Australian Research Council

Bilston L, Gefen A, Sinkus R, Nordsletten D. Measuring large deformation tissue mechanical behaviour in living humans, Discovery Project (2016-2019), 2018 amount \$208,600

Birznies I, Wietewski M. Sensory mechanisms underlying human dexterity in object manipulation, Discovery Projects (2017-2019), *Administered by School of Medical Sciences, UNSW*

Boonstra T. The structure and function of the human spinal connectome, Future Fellowship Level 1, 2018 *Administered by Graduate School of Biomedical Engineering, UNSW*

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, Charlton J, Koppel S, Keay L, Olivier J. Design features critical for correct use of child car restraints, Discovery Project (2017-2020), 2018 amount \$116,500

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, Margie 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), 2018 sub-contract amount \$127,082

Henry J, Sachdev P, Mather K. Social cognitive change in late adulthood, Discovery Project Grant (2017-2020), 2018 amount \$70,705

Nordon R, Thordarson P, Bilston L, Farag M. Scaling manufacture of 3-D microstructures for the medical devices industry, Linkage Projects (2016-2018), *Administered by UNSW, Graduate School of Biomedical Engineering*

Peters R, Anstey K. S R Decision making with ageing, Centre of Excellence in Population Ageing Research (CEPAR) Seed Grant, 2018, \$15,922

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), 2018 sub award amount \$888,413.11

NSW Health Dept / NSW Office for Science & Medical Research

Fullerton J, Mitchell P, Schofield P, Havard A, Toma C, O'Donnell M. Genetic contributors, clinical course and pharmacogenomics of Bipolar Disorder using data record linkage in NSW, Sydney Genomics Collaborative Grants program, 2018 amount \$2,460,000

Shannon Weickert C. NSW Health Chair of Schizophrenia Research (2017-2021), 2018 amount \$1,000,000

Other Funding Bodies

NeuRA. Transurban Road Safety Centre, Corporate Partnership/Sponsorship (2017-2019), 2018 amount \$102,700

Achanta L. AMP-activated protein kinase (AMPK) modulation and brain metabolism: a ¹³C NMR investigation, Asian-Pacific Society For Neurochemistry, Postgraduate Travel Award, 2018, \$300

Anstey K. Social wellbeing and resilience in the ACT, ACT Government Chief Minister, Treasury and Economic Development Directorate, 2018 *Administered by UNSW, School of Psychology*

Bilston L, Lovell N, Burke P, Brown E. A novel optical stimulation method for Obstructive Sleep Apnoea treatment, UNSW Biomedical Seed Fund (2018-2020), 2018 amount \$149,739.33

Brew B, Rae L, Yoneda T, Meikle S, Cysique L, Cassidy B. Validation of a fast and inexpensive MRI method for detection of amyloid deposits in brain, St Vincent's Centre for Applied Medical Research, AMR Translational Research Grant, *Administered by St Vincents Hospital*

Brew B, Rae L. Validation of a fast and inexpensive MRI method for detection of amyloid deposits in brain, Mason Foundation National Medical Program, *Administered by St Vincents Hospital*

Broe T, Radford K, Hill T-Y, Daylight G, Wall S. Empowering Aboriginal communities with dementia knowledge and skills: a train the trainer approach, NSW Agency for Clinical Innovation Partnership Research Funding Award, (2017/2018) amount \$86,000

Brooks W. A Phase II/III Randomized, Double-Blind, Placebo-Controlled Multi-Center Study of 2 Potential Disease Modifying Therapies in Individuals at Risk for and with Dominantly Inherited Alzheimer's Disease - (DIAN-TU-001), National Institutes of Health, Investigator Initiated Research Grant (2014-2019), *Administered by University of Washington*

Brown J, Bilston L. Improving correct use of child restraints via child restraint design (2 PhD projects): Project 1 - Optimal design features for reducing errors in use. Project 2 - Optimising child posture in child restraint design, BP Children's Products Co Ltd (HK), PhD Scholarship sponsorship (2018-2020), 2018 amount \$50,000

Brown J. NSW Child and Young Person Injury Prevention Plan, Office of the Advocate for Children and Young People, Research Consultancy, 2018, \$26,400

Brown J. Investigation of the influence of sled pulse characteristics on child restraint performance, Transport for NSW, Contract Research, 2018, \$31,700

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*

Close J. Australian and New Zealand Hip Fracture Registry - support WA hospitals' participation in the registry, Western Australia - Department of Health, Funding Support (2018-2019), 2018 amount \$25,000

Close J. Australian and New Zealand Hip Fracture Registry - support Queensland hospitals' participation in the registry, Queensland Health, Funding support (2017-2021), 2018 amount \$25,000

Close J. Australian and New Zealand Hip Fracture Registry - support of the registry, NSW Agency for Clinical Innovation, Funding Support (2018-2022), 2018 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), 2018 amount \$25,000

Close J. ANZ Hip Fracture Registry, Australian Government Department of Health, Registry Grant (2018-2019), 2018 amount \$238,132.50

Delbaere K, Lovell N, Brodie M, Inglis S, Sze-Yuan O, Redmond S, Del Rosario M, Schreier G, Golledge J, Varcoe R, French J, Dear B, Crombez G, Goodall S, Haywood P, Nicholas M, Shipway C, White C. StandingTall-cardio. An engaging self-management program and scalable intervention using mobile technology to enhance healthy ageing and reduce fall risk in people with intermittent claudication: a randomised trial, UNSW Sphere Clinical Academic Group, Seed funding, 2018, \$40,000

Eckert D. Sleep Lab Manager Position, Thyne-Reid Foundation, Research Support (2018-2019), 2018 amount \$105,000

Eckert D, Hensen H, Krishnan A. Identification of the pathophysiological causes of sleep apnoea in people with multiple sclerosis: A novel pathway to reducing fatigue, MS Research Australia, Incubator Grant (2018-2019), 2018 amount \$12,500

Eckert D. Core Lab for "treatable trait phenotyping", Bayer AG, Contract Research (2018-2019), 2018 amount \$87,807.63

Furlong T. Preventing the effect of high-calorie food on habitual eating using an orexin-1 receptor antagonist, Rebecca L Cooper Medical Research Foundation, Medical Research Grant (2018-2019), 2018 amount \$50,000

Gandevia S, McCaughey E, Hoang P, Boswell-Rhys C. Abdominal Functional Electrical Stimulation to improve bowel function in Multiple Sclerosis, National Multiple Sclerosis Society, Pilot Research Grant, 2018, \$44,129

Green M. Determinants of risk and resilience in maltreated children using multi-agency administrative records: A population record-linkage study, Australian Rotary Health, Project Grant (2017-2018), 2018 amount \$67,927

Gustin S. Identifying Cortical Mechanisms of Virtual Reality Walking Intervention for Neuropathic Pain in Spinal Cord Injury, International Association for the Study of Pain, Collaborative Research Grant, 2018, \$15,000

Gustin S. Pain and the brain: Understanding and modulating the critical brain mechanisms that underlie chronic pain, Rebecca L Cooper Medical Research Foundation, AI & Val Rosenstrauss Research Fellowship, (2017-2020), 2018 amount \$80,000

Hoang P, Herbert R, Gandevia S, Lord S, Greene D. Effects of eccentric training on ankle contracture in people with multiple sclerosis, Multiple Sclerosis Research Australia, 2016 Project Grant (2017-2019) 2018 amount \$50,000

Hudson A. Understanding impaired neural control of the respiratory muscles in chronic obstructive pulmonary disease, Rebecca L Cooper Medical Research Foundation, Medical Research Grant (2018-2019), 2018 amount \$50,000

Hudson A. Detection of neural impairments in respiratory motor control in COPD, Lung Foundation Australia/Boehringer Ingelheim, Chronic Obstructive Pulmonary Disease Research Fellowship (2017-2018), 2018 amount \$80,000

Kirk E, Delatycki M, Pachter N, Laing N, Barlow-Stewart K, Schofield D, Farrar M, Bruno D, Lunke S, Belby J, Davis D, 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, Project Grant (2018-2021), *Administered by UNSW*

Lal S, Lin C-T, Newton P, Gustin S, McLachlan C, Clifton-Bligh R, Lees T, Cao Z. HealthSense: Technological Human Health Sensors Capable of Monitoring, and Providing Feedback and Intervention to the User, Defence Innovation Network, Pilot Project Grant, 2018 amount \$108,891.81

- Lee BSB, Chhabra H, McCaughey E, Gandevia S, Butler J. Abdominal Functional Electrical Stimulation to reduce respiratory complications in Spinal Cord Injury, Wings for Life Spinal Cord Research Foundation, Project Grant (2018-2020), 2018 amount \$80,183.35
- Lord S. NSW Falls Prevention Network, Clinical Excellence Commission, Contract research work (2017-2018), 2018 amount \$131,000
- Lord S, Hoang P, Menant J. Extend the "Interactive step training to reduce falls in people with multiple sclerosis" randomised controlled trial to Tasmania and Victoria (i-FIMS Melbourne), Multiple Sclerosis Limited, Contract Research (2018/2019), \$37,500
- Lord S, Okubo Y, Hoang P, Sturnieks D. Assessment and training of reactive stepping response in people with multiple sclerosis for fall prevention, MS Research Australia, Incubator Grant, 2018, \$24,700
- 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 (2018-2019), 2018 amount \$245,310
- Lord S, Sturnieks D, Okubo Y, Menant J. Reactive and volition step training to reduce risk of falling in people with Parkinson's disease: A randomized controlled trial, Parkinson's NSW, Research Grant (2017/2018) \$48,143
- Lord S, Sturnieks D, Brennan N, Caplan G, Close J, Kohler F, McVeigh C, Menant, J. Implementation of a novel exergaming system for improving balance and mobility in aged care rehabilitation, SPHERE Age and Ageing Clinical Academic Group, Project Seed Grant, 2018 amount \$44,433
- McCaughey E, Boswell-Ruys C, Butler J, Gandevia S. Abdominal Functional Electrical Stimulation to assist ventilator weaning in critically ill patients, Liberate Medical LLC, Contract Research (2017/2018), \$61,304.13
- Migliaccio AA. Investigation of factors that modify the vestibulo-ocular reflex response to optimize vestibular rehabilitation therapy. Garnett Passe & Rodney Williams Memorial Foundation, Senior/Principal Research Fellowship (2014-2019) 2018 amount \$200,131
- Morris J, Aisen P, Bateman R, Cairns N, Goate A, Holtzman D, Clifford J, Koeppe R, Marcus D, Mathis C, Mintun M, Thomas R, Weiner M, Xiong C, Ghetti B, Mayeux R, Ringman J, Rossor M, Schofield P, Sperling R. Dominantly Inherited Alzheimer Network, US National Institutes of Health, National Institute of Aging, U01 Multicenter Clinical Cooperative Agreement App -Alzheimer's Research Program (2014-2019), 2018 Suncontract Amount US\$51,030 = AUD\$72,813
- Peters R. To assist in the development of the evidence-based guidelines for risk reduction for cognitive decline and dementia, World Health Organisation (WHO) Contract Research, 2018 amount \$12,780
- Pliner E. Associated physiological measures on overbalance falls, National Science Foundation, Graduate Research Opportunities Worldwide (GROW) Visiting Fellowship (2017-2018), *Administered by University of Pittsburgh*
- 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, Dementia & Aged Care Services (DACs) Better support for services targeting people (2017-2018), 2018 amount \$308,626.50
- Radford K, Garvey G, Delbaere K, Broe T, Daylight G, Allen W. Sharing the wisdom of our Elders: Understanding and promoting healthy ageing with older Aboriginal Australians, The Lowitja Institute, Research Project Funding (2017-2018), 2018 amount \$141,252
- Radford K. Appointment of a postdoctoral fellow, Serpentine Foundation, Postdoctoral fellow (2017-2019), 2018 amount \$153,050
- Rahman T. To attend the 2018 Molecular Psychiatry meeting in Kauai, Hawaii 26-29 September 2018, Molecular Psychiatry Association, Young Investigator Travel Award, 2018 amount \$2,000
- Roscioli T. Genome Connect Clinical Academic Group, Sphere, Partnership Program, (2017-2019), 2018 amount \$183,610
- Schabrun S. Bridging the gap between what we know and what we do: evaluation of a grass-roots Clinical Change Program, UNSW Development Support for NHMRC Partnership, 2018 amount \$4,960

Shannon Weickert C. Investigation into determining the percentage of individuals with chronic schizophrenia who may have a 'curable' illness - NMDAR encephalitis, Suncorp Brighter Futures, Community Support Fund, 2018 amount \$5,000

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 (2016-2018), 2018 amount \$110,000

Shepherd C. Sydney Brain Bank. Profield Foundation, Research Grant, 2018 amount \$90,000

Sturnieks D. Novel approaches for training balance and preventing falls in older people, PB Foundation, Rising Star Researcher Fellowship (2017-2020), 2018 amount \$165,592

Trost Z, Gustin S, Richards J, Bolding M, Redden D, Mark V, Siddall P, Shun P. Immersive Virtual Walking as Treatment for Neuropathic Pain in Spinal Cord Injury: Examining Treatment Efficacy and Cortical Mechanisms, Department of the Army, DoD Spinal Cord Injury Research Program, Clinical Research (2018-2019), 2018 amount \$37,067

Tully P, Tzourio C, Anstey K, Peters R, Turnbull D, Burns N, Cosh S. Minimizing blood pressure variability with antihypertensive drugs to reduce dementia risk: an IPD meta-analysis of cohort studies in the CAPA consortium, Alzheimer's Drug Discovery Foundation (USA), Research Grant, 2018 *Administered by University of South Australia*

Van Schooten K. Brain and brawn in balance: disentangling central and peripheral contributions to balance control, International Human Frontier Science Program Organisation (HFSPO), Postdoctoral Research Fellowship (2017-2019), *Self Administered*

Walker A. Improving quality of life during and after chemotherapy: Targeting neuroinflammation to cure treatment symptoms, National Breast Cancer Foundation, Postdoctoral Fellowship (2015-2019), 2018 amount \$100,000

Weickert T. Adjunctive canakinumab treatment to improve brain activity, reduce symptoms and reverse cognitive deficits in people with schizophrenia who have elevated peripheral cytokine levels, Brain & Behaviour Research Foundation NARSAD Independent Investigator Award (2016-2018). *Administered through School of Psychiatry, UNSW, 2018 amount \$24,300*

Scholarships

- Achanta L. UNSW Tuition Fee Scholarship, (2017-2019), \$27,082
- Afzal N. UNSW Scientia PhD Scholarship, (2018-2021), \$50,000
- Aishah A. UNSW Scientia PhD Scholarship, (2018-2021), \$50,000
- Albanese B. UNSW Research Training Program Scholarship, (2018-2021), \$27,082
- Alexander R. UNSW Australian Postgraduate Award, (2015-2018), \$27,082
- Bakhshi N. UNSW University Postgraduate Award, (2016-2019), \$27,082
- Bagg M. UNSW Australian Postgraduate Award, (2015-2018), \$13,541
- Cai HQT. UNSW Australian Postgraduate Award, (2015-2018), \$13,541
- Cashin A. POWCS Postgraduate Research Scholarship, (2017-2018), \$27,082
- Cooray N. UNSW Scientia PhD Scholarship, (2018-2021), \$50,000
- Epiu I. UNSW Scientia PhD Scholarship, (2018-2022), \$25,000
- Finlay E, UNSW Research Training Program Scholarship, (2018-2021), \$27,082
- D'Souza A. Royal Freemasons Benevolent Institution Scholarship for Postgraduate Research Studies, (2015-2018), \$13,541
- Hensen H. University International Postgraduate Award, (2016-2019), \$27,082
- Jamshidi J. UNSW Scientia PhD Scholarship, (2018-2021), \$50,000
- Lee CH. UNSW Australian Postgraduate Award, (2016-2019), \$27,082
- Lim M. UNSW University Postgraduate Award, (2017-2020), \$27,082
- Lim R. UNSW University Postgraduate Award, (2017-2020), \$27,082
- Livings R. STREAM Health PhD scholarship, (2018-2021), \$10,715
- Lloyd R. Column of Hope PhD Scholarship, (2016-2018), \$26,288
- Lloyd D, UNSW Australian Postgraduate Award, (2015-2018), \$13,541
- Mahfuz MM. UNSW University Postgraduate Award, (2017-2020), \$27,082
- Martinac A. POWCS Postgraduate Research Scholarship, (2018), \$27,082
- Messineo L. UNSW Scientia PhD Scholarship, (2018-2021), \$50,000

- Murphy C. Research Training Program (TRP) scholarship, (2017-2020), \$27,082
- O'Hagan E. UNSW Research Training Program Scholarship, (2017-2019), \$27,082
- Osman A. CRC for Alertness, Safety & Productivity Postgraduate Scholarship, (2015-2018), \$12,696.50
- Owens S. UNSW Australian Postgraduate Award, (2015-2018), \$27,082
- Pelicioni P. Coordenação de Aperfeiçoamento de Pessoal de Nível Superior (CAPES) Brazil Scholarship, (2016-2019)
- Revalas M. UNSW Australian Postgraduate Award, (2015-2020), \$13,541
- Rinaudo C. UNSW Australian Postgraduate Award, (2017-2020), \$27,082
- Skliros C. UNSW Tuition Fee Scholarship, (2018-2021), \$27,082
- Stivactas A. Laurie Cowled Sholarship (2018-2019), \$11,250
- Tong B. UNSW University Postgraduate Award, (2017-2020), \$27,082
- Watkeys O. UNSW Research Training Program, (2017-2020), \$27,082
- Wilson N. Australian Postgraduate Award (2016-2018), \$27,082
- Zieba J. Schizophrenia Research Institute Postgraduate Research Scholarship (2015-2018), \$12,500

COLLABORATION

From 2013-2018 NeuRA researchers have collaborated with 907 institutions on 1,949 co-authored publications (Source: SciVal 11/2/2019)

Region	Collaborating Institutions	Co-authored publications
Asia Pacific	208	1,747
Europe	442	614
Middle East	17	32
Africa	5	15
North America	200	390
South America	35	50



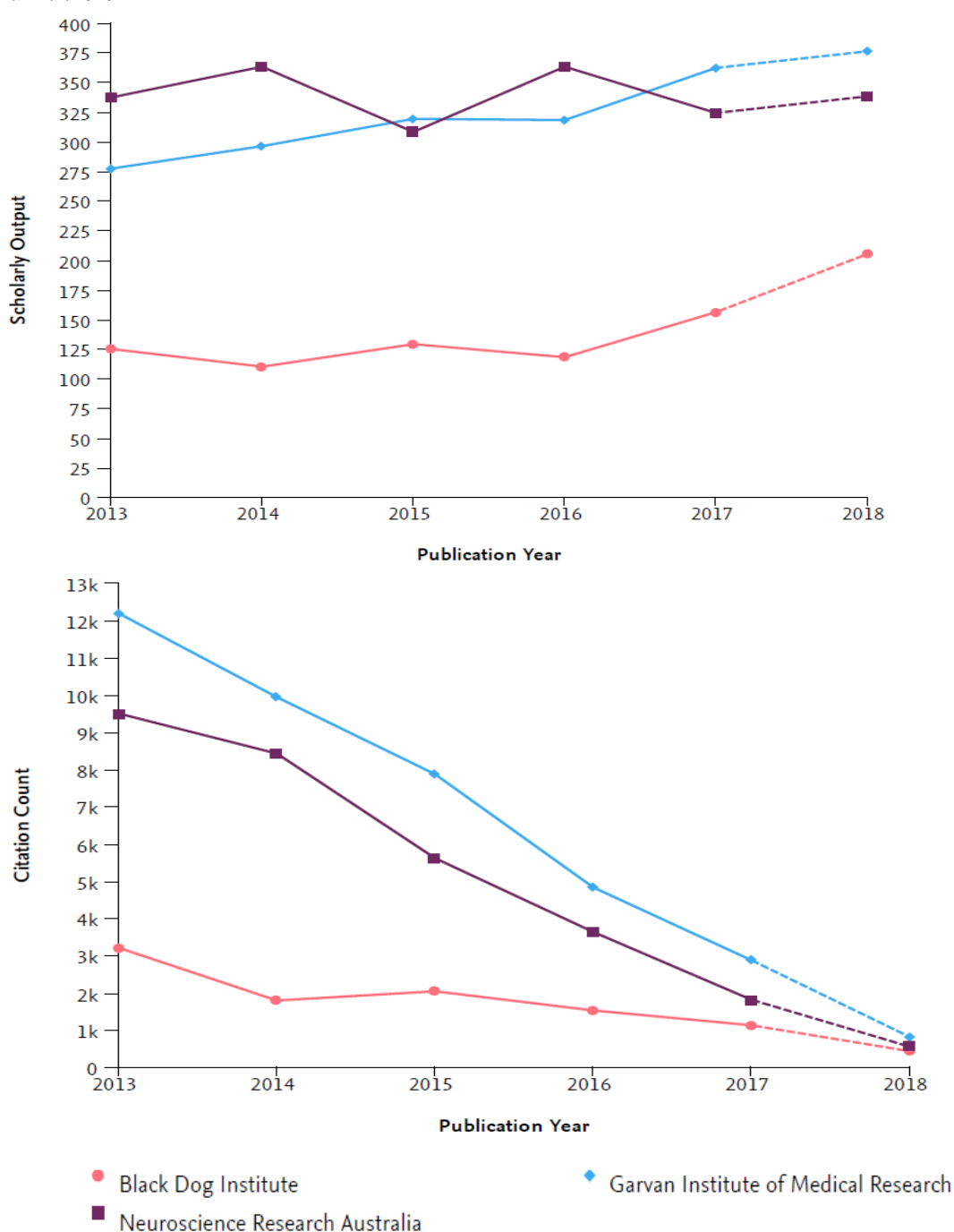
Within Australia (2013-2018) – 104 collaborating institutions co-authoring 1,710 publications



BENCHMARKING

Annual Reports			
	NeuRA 2017	Garvan 2017	Black Dog Institute 2017/2018
Years in operation	24	54	15
Research grant income	22,301,264	26,893,000	11,191,942
HDR students	69	~100	N/A
Publications	317	362	198

Source: SciVal 11/2/2019

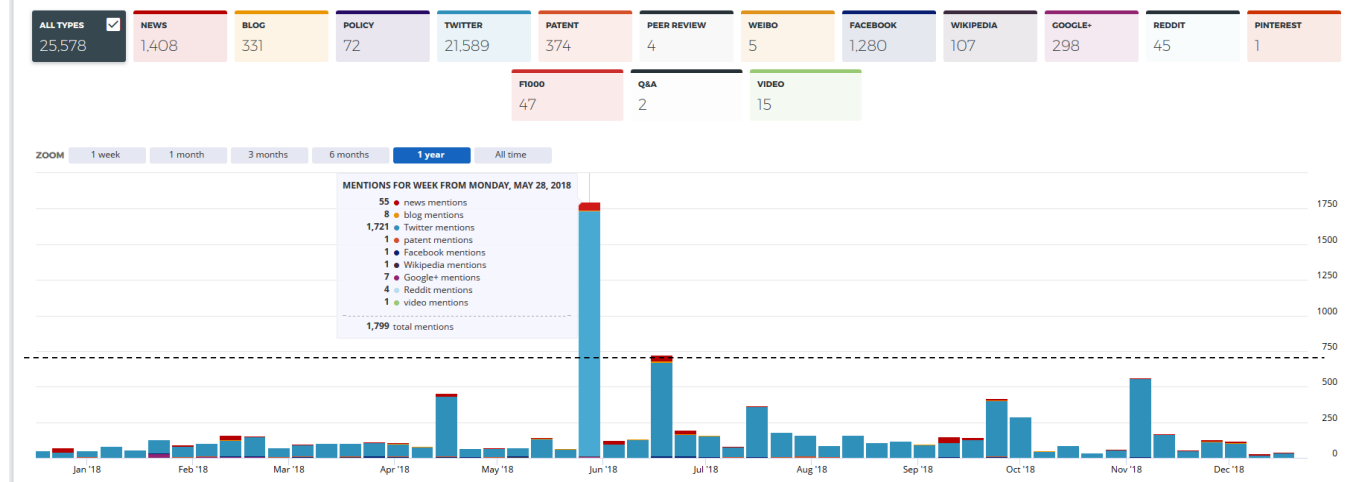


Altmetrics are metrics and qualitative data that are complementary to traditional, citation-based metrics. They can include (but are not limited to) peer reviews on Faculty of 1000, citations on Wikipedia and in public policy documents, discussions on research blogs, mainstream media coverage, bookmarks on reference managers like Mendeley, and mentions on social networks such as Twitter and Facebook

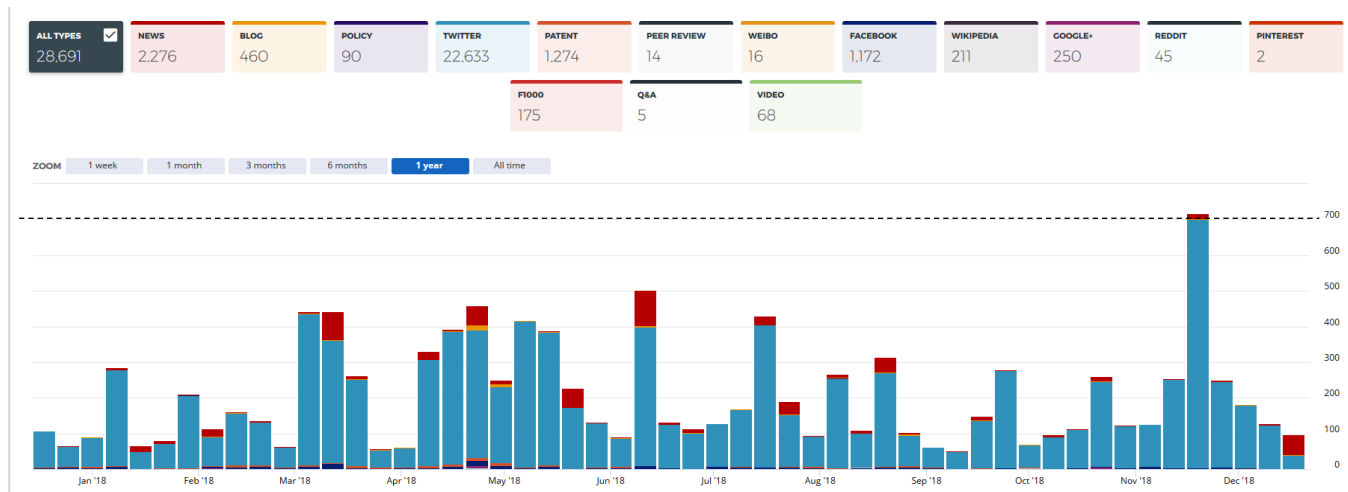
The Altmetric timeline graph for 2018 (below) tracked and reported the attention that NeuRA research publications and datasets received online. The large spike in activity in the week beginning 28/5/2018 relates to the publication “*Study of 300,486 individuals identifies 148 independent genetic loci influencing general cognitive function*”, Nature Communications, May 2018 DOI: <http://dx.doi.org/10.1038/s41467-018-04362-x>

NeuRA

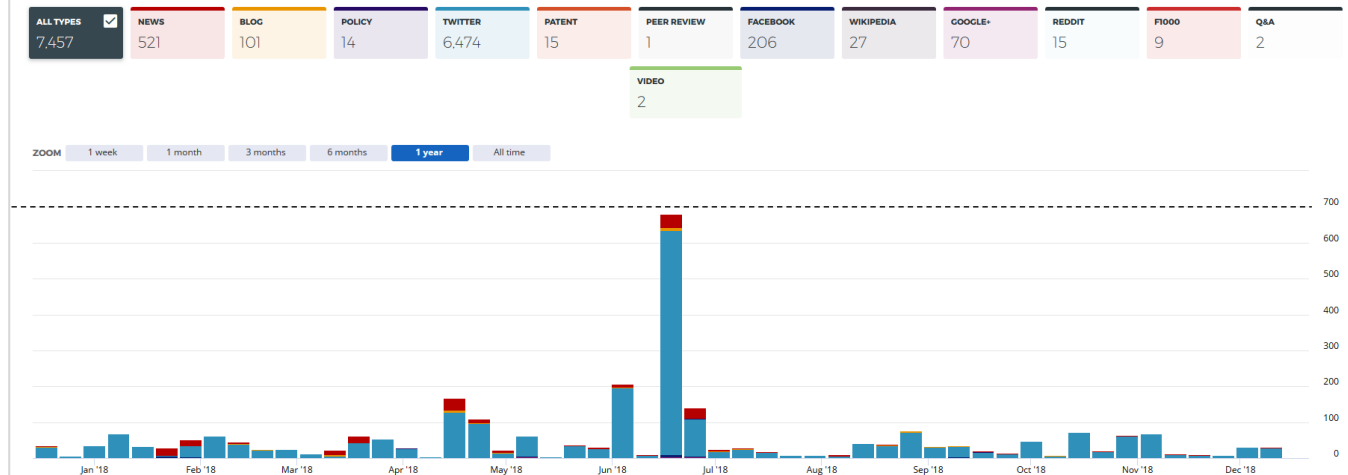
(for comparison of data – dashed line set at 700 for all graphs below)



Garvan Institute



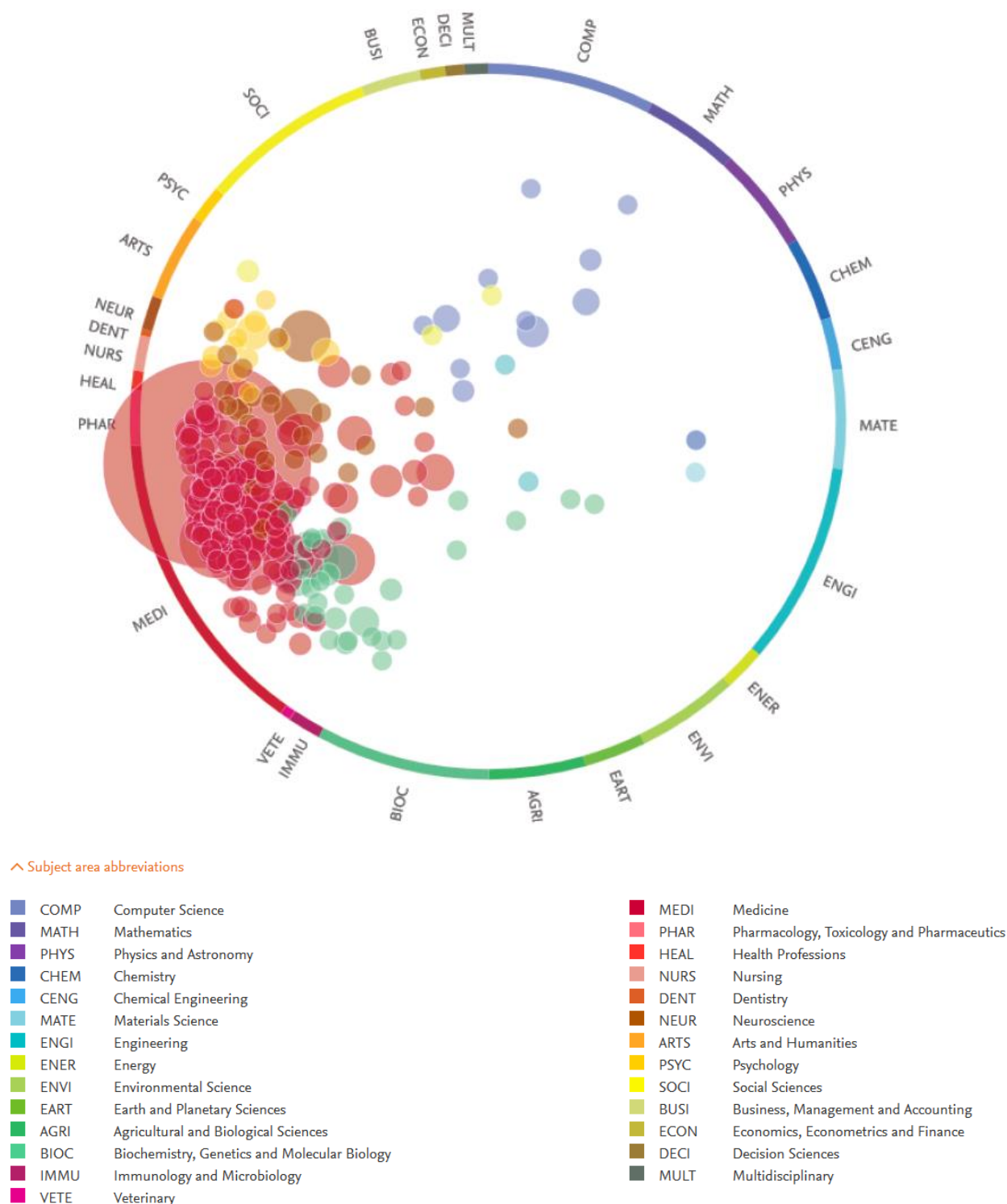
Black Dog Institute



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 572 topics in 196 topic clusters between 2013-2018 (in the top 10% of worldwide Topics by Prominence). Source: SciVal 11/2/2019



PUBLICATIONS

Books

1. **Foley P.** Encephalitis lethargica: The mind and brain virus. ISBN:9781493903832, Springer, New York, 2018
2. **Paxinos G,** Ashwell KWS. Atlas of the Developing Rat Nervous System, 4th edition. ISBN: 9780128130582, Academic Press, 2018

Journal articles

3. Adams SE, Holland A, **Brown J.** A comparison of the management of blunt splenic injury in children and young people- a New South Wales, population-based, retrospective study. *Injury*, 49(1):42-50, 2018
4. Ahmed RM, Highton-Williamson E, Caga J, Thornton N, Ramsey E, Zoing M, Kim WS, **Halliday GM, Piguet O, Hodges JR,** Farooqi IS, Kiernan MC. Lipid metabolism and survival across the frontotemporal dementia-amyotrophic lateral sclerosis spectrum: relationships to eating behavior and cognition. *Journal of Alzheimer's Disease*, 61(2):773-783, 2018
5. Ahmed RM, Ke YD, Vucic S, **Iltner LM,** Seeley W, Hodges JR, Piguet O, Halliday G, Kiernan MC. Physiological changes in neurodegeneration – mechanistic insights and clinical utility. *Nature Reviews Neurology*, 14(5):259-271, 2018
6. **Amatoury J,** Jordan AS, **Toson B,** **Nguyen C,** Wellman A, **Eckert DJ.** New Insights into the Timing and Potential Mechanisms of Respiratory-Induced Cortical Arousals in Obstructive Sleep Apnea. *Sleep*, 41(11):1-13, 2018
7. Amoretti S, Cabrera B, Torrent C, Mezquida G, Lobo A, González-Pinto A, Parellada M, Corripio I, Vieta E, de la Serna E, Butjosa A, Contreras F, **Sarró S,** Penadés R, Sánchez-Torres AM, Cuesta M, Bernardo M; PEPsGroup. Cognitive reserve as an outcome predictor: first-episode affective versus non-affective psychosis. *Acta Psychiatrica Scandinavica*, 138(5):441-455, 2018
8. Andrews SJ, Ismail I, **Anstey KJ, Mortby, M.** Association of Alzheimer's genetic loci with mild behavioral impairment. *American Journal of Medical Genetics*, 177(8):727-735, 2018
9. **Anstey KJ, Peters R.** Alcohol and dementia - risk or protective factor?. *Nature Reviews Neurology*, 14(11):635-636, 2018
10. Araque Caballero MÁ, Suárez-Calvet M, Duering M, Franzmeier N, Benzinger T, Fagan AM, Bateman RJ, Jack CR, Levin J, Dichgans M, Jucker M, Karch C, Masters CL, Morris JC, Weiner M, Rossor M, Fox NC, Lee JH, Salloway S, Danek A, Goate A, Yakushev I, Hassenstab J, **Schofield PR,** Haass C, Ewers M. White matter diffusion alterations precede symptom onset in autosomal dominant Alzheimer's disease. *Brain*, 141(10):3065-3080, 2018
11. **Atashrazm F,** Hammond D, **Perera G,** Dobson-Stone C, **Mueller N,** Pickford R, **Kim WS,** Kwok JB, Lewis SJG, Halliday GM, Dzamko N. Reduced glucocerebrosidase activity in monocytes from patients with Parkinson's disease. *Scientific Reports*, 8;8(1):15446, 2018
12. **Babaei B,** Velasquez-Mao AJ, Pryse KM, McConaughy WB, Elson EL, Genin GM. Energy dissipation in quasi-linear viscoelastic tissues, cells, and extracellular matrix. *Journal of the Mechanical Behavior of Biomedical Materials*, 84:198-207, 2018
13. **Bagg MK,** Salanti G, **McAuley JH.** Comparing interventions with network meta-analysis. *Journal of Physiotherapy*, 64(2):128-132, 2018
14. Baroi S, McNamara RJ, McKenzie DK, **Gandevia S, Brodie MA.** Advances in remote respiratory assessments for people with chronic obstructive pulmonary disease: a systematic review. *Telemedicine Journal and E-Health*, 24(6):415-424
15. Basilicata MF, Bruel AL, Semplicio G, Valsecchi CIK, Aktaş T, Duffourd Y, Rumpf T, Morton J, Bache I, Szymanski WG, Gilissen C, Vanakker O, Öunap K, Mittler G, van der Burgt I, El Chehadeh S, Cho MT, Pfundt R, Tan TY, Kirchhoff M, Menten B, Vergult S, Lindstrom K, Reis A, Johnson DS, Fryer A, McKay V; DDD Study, Fisher RB, Thauvin-Robinet C, Francis D, **Roscioli T,** Pajusalu S, Radtke K, Ganesh J, Brunner HG, Wilson M, Faivre L, Kalscheuer VM, Thevenon J, Akhtar A. De novo mutations in MSL3 cause an X-linked syndrome marked by impaired histone H4 lysine 16 acetylation. *Nature Genetics*, 50(10):1442-1451, 2018
16. Berg D, Adler CH, Bloem BR, Chan P, Gasser T, Goetz CG, **Halliday G,** Lang AE,

- Lewis S, Li Y, Liepelt-Scarfone I, Litvan I, Marek K, Maetzler C, Mi T, Obeso J, Oertel W, Olanow CW, Poewe W, Rios-Romenets S, Schäffer E, Seppi K, Heim B, Slow E, Stern M, Bledsoe IO, Deuschl G, Postuma RB. Movement disorder society criteria for clinically established early Parkinson's disease. *Movement Disorders*, 33(10):1643-1646, 2018
17. Bergeron D, Gorno-Tempini ML, Rabinovici GD, Santos-Santos MA, Seeley W, Miller BL, Pijnenburg Y, Keulen MA, Groot C, van Berckel BNM, van der Flier WM, Scheltens P, Rohrer JD, Warren JD, Schott JM, Fox NC, Sanchez-Valle R, Grau-Rivera O, Gelpi E, Seelaar H, Papma JM, van Swieten JC, **Hodges JR**, Leyton CE, **Piguet O**, Rogalsky EJ, Mesulam MM, Koric L, Nora K, Pariente J, Dickerson B, Mackenzie IR, Hsiung GR, Belliard S, Irwin DJ, Wolk DA, Grossman M, Jones M, Harris J, Mann D, Snowden JS, Chrem-Mendez P, Calandri IL, Amengual AA, Miguët-Alfonsi C, Magnin E, Magnani G, Santangelo R, Deramecourt V, Pasquier F, Mattsson N, Nilsson C, Hansson O, Keith J, Masellis M, Black SE, Matías-Guiu JA, Cabrera-Martin MN, Paquet C, Dumuirger J, Teichmann M, Sarazin M, Bottlaender M, Dubois B, Rowe CC, Villemagne VL, Vandenberghe R, Granadillo E, Teng E, Mendez M, Meyer PT, Frings L, Lleó A, Blesa R, Fortea J, Seo SW, Diehl-Schmid J, Grimmer T, Frederiksen KS, Sánchez-Juan P, Chételat G, Jansen W, Bouchard RW, Robert L Jr, Visser PJ, Ossenkoppele R. Prevalence of amyloid- β pathology in distinct variants of primary progressive aphasia. *Annals of Neurology*, 84(5):729-740, 2018
18. **Bilston LE**. Soft tissue rheology and its implications for elastography: challenges and opportunities. *NMR in Biomedicine*, 31(10):e3832, 2018
19. Bipolar Disorder and Schizophrenia Working Group of the Psychiatric Genomics Consortium (including **Fullerton JM**, **Schofield PR**, **Shannon Weickert C**, **Weickert T**). Genomic Dissection of bipolar disorder and schizophrenia, including 28 subphenotypes. *Cell*, 173 (7): 1705-1715, e16, 2018
20. Bloch-Jorgensen ZT, Cilione PJ, Yeung WW, **Gatt JM**. Centeredness Theory: Understanding and measuring well-being across core life domains. *Frontiers in Psychology*, 9:610, 2018
21. Bokinić P, **Burke PGR**, Turner AJ, McMullan S, Goodchild AK. Somatostatin 2 receptor activation in the rostral ventrolateral medulla does not mediate the decompensatory phase of haemorrhage. *Shock*, 50(3):331-338, 2018
22. **Bolsterlee B**, Finni T, **D'Souza A**, **Eguchi J**, Clarke EC, **Herbert RD**. Three-dimensional architecture of the whole human soleus muscle *in vivo*. *PeerJ*, 6:e4610, 2018
23. Bolton PS, Hammam E, **Macefield VG**. Neck movement but not neck position modulates skin sympathetic nerve activity supplying the lower limbs of humans. *Journal of Neurophysiology* 119(4):1283-1290, 2018
24. Bonham LW, Karch CM, Fan CC, Tan C, Geier EG, Wang Y, Wen N, Broce IJ, Li Y, Barkovich MJ, Ferrari R, Hardy J, Momeni P, Höglinger G, Müller U, Hess CP, Sugrue LP, Dillon WP, Schellenberg GD, Miller BL, Andreassen OA, Dale AM, Barkovich AJ, Yokoyama JS, Desikan RS; International FTD-Genomics Consortium (IFGC) (including **PR Schofield**); International Parkinson's Disease Genetics Consortium (IPDGC); International Genomics of Alzheimer's Project (IGAP). CXCR4 involvement in neurodegenerative diseases. *Translational Psychiatry*, 8(1):73, 2018
25. Boulton D, Taylor CE, Green S, **Macefield VG**. The metaboreflex does not contribute to the increase in muscle sympathetic nerve activity to contracting muscle during static exercise in humans. *Journal of Physiology* 596(6):1091-1102, 2018
26. Bousman CA, Cropley VL, Klauser P, Hess JL, Pereira A, Idrizi R, **Bruggemann J**, Mostaid S, **Lenroot R**, **Weickert TW**, Glatt SJ, Everall IP, Sundram S, Zalesky A, **Shannon Weickert C**, Pantelis C. Neuregulin-1 (NRG1) polymorphisms linked with psychosis transition are associated with enlarged lateral ventricles and white matter disruption in schizophrenia. *Psychological Medicine*, 48(5):801-809, 2018
27. Brainstorm Consortium, Anttila V, Bulik-Sullivan B, Finucane HK, Walters RK, Bras J, Duncan L, Escott-Price V, Falcone GJ, Gormley P, Malik R, Patsopoulos NA, Ripke S, Wei Z, Yu D, Lee PH, Turley P, Grenier-Boley B, Chouraki V, Kamatani Y, Berr C, Letenneur L, Hannequin D, Amouyel P, Boland A, Deleuze JF, Duron E, Vardarajan BN, Reitz C, Goate AM, Huentelman MJ, Kamboh MI, Larson EB, Rogaeva E, St George-Hyslop P, Hakonarson H, Kukull WA, Farrer LA,

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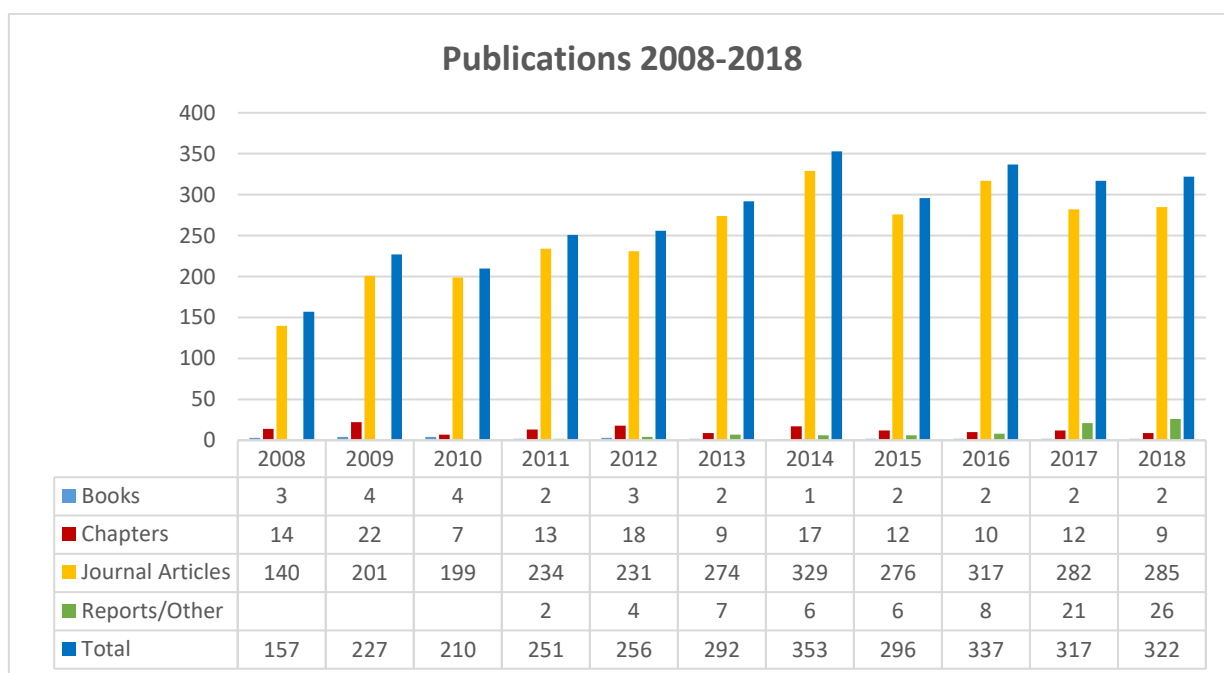
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RECOGNITION

NeuRA staff and students prizes and awards received during 2018

Name	Award	Description	Awarding body
Anna Hudson	TSANZ Janet Elder International Travel Award (Mid-Career Researcher)	Based on an abstract (combined with track record), titled: <i>Cortical contribution to quiet breathing in COPD is associated with ageing</i> . Award valued at \$2500 for conference travel	Thoracic Society of Australia and New Zealand
Anna Hudson	Best Application - Lung Diseases	Awarded a certificate at the grant award presentation evening.	Rebecca L Cooper Medical Research Foundation
Lynne Bilston	Fellow of the Australian Academy of Health and Medical Sciences	In recognition of the important contribution made to health and medical research in Australia	Australian Academy of Health and Medical Sciences
Christopher Mulligan	Poster Prize (Joint Winner)	For the poster: C Mulligan, S Adams, J Brown. <i>Preventing paediatric injury from off-road vehicles</i>	Prince of Wales Clinical School
Aidan Cashin	Poster Prize (Joint Winner)	For the poster: Cashin AG, Traeger AC, Hubscher M, Moseley GL, Di Pietro F, Parkitny L, McAuley JH. <i>Persistent pain after wrist fracture: Development and validation of a prognostic model</i> .	Prince of Wales Clinical School
Bart Bolsterlee	ANZSB Publication of the Year Award	Recognising publication of excellent biomechanical research by ANZSB members. Awarded for the publication: Bolsterlee B, D'Souza A, Gandevia SC, Herbert RD. How does passive lengthening change the architecture of the human medial gastrocnemius muscle? <i>Journal of Applied Physiology</i> 2017;122(4):727-38. The award will comprise \$250 and a certificate.	Australian and New Zealand Society of Biomechanics
Sophie Carter	Sleep Science Prize	For the abstract titled: <i>The Role of Nightly Zopiclone on Obstructive Sleep Apnea Severity and Symptoms in People with Low to Moderate Respiratory Arousal Thresholds: A Randomized,</i>	American Academy of Neurology in partnership with the American Academy of Sleep Medicine/Sleep Research Society

		<i>Double-Blind, Placebo-Controlled Trial.</i> Presented at the 2017 Academy of Sleep Medicine/Sleep Research Society Conference, Sophie was selected as one of 6 Invited speakers to present at a sleep plenary at the American Academy of Neurology Conference in LA (all expenses paid).	
Hanna Hensen	TSANZ Sleep Medicine Prize	Best Sleep Medicine Presentation at the NSW/ACT Annual Scientific Meeting for talk titled: <i>Sleep disruption in people with multiple sclerosis</i> , prize of \$1,000 awarded	Thoracic Society of Australia and New Zealand (TSANZ)
Christopher Todd	Best Poster	For the poster: Todd C (Presenting), Schubert M, Figtree W, Mahfuz M, Migliaccio A. <i>Unilateral Incremental Vestibulo-ocular Reflex Adaptation (IVA) Training Dynamically Tailored for Each Subject.</i>	International Conference on Vestibular Rehabilitation (Chicago, USA)
Americo Migliaccio	Best Poster	For the poster: Khan S, Migliaccio A (Presenting). <i>The role of the otoliths in angular vestibulo-ocular reflex baseline function, adaptation and compensation.</i>	FRONTIERS conference (Cairns, Australia)
Miranda Chilver	Travel Award	Awarded a travel award for her PhD research and to attend a twin training workshop in Perth (Supervisor: Justine Gatt)	Twins Research Australia
Javad Jamshidi	Travel Award	Awarded a travel award for his PhD research and to attend a twin training workshop in Perth (Supervisor: Justine Gatt, Jan Fullerton)	Twins Research Australia
Tjeerd Boonstra	16th Annual Delsys Prize	For work on mapping muscle networks using surface EMG recorded from multiple muscles across the human body	De Luca Foundation
Lavanya Achanta	Postgraduate Travel Award	AMP-activated protein kinase (AMPK) modulation and brain metabolism: a ¹³ C NMR investigation	Asian-Pacific Society for Neurochemistry
Jacqueline Close & Christina Norris	Team of the Year Award	Awarded for the Care of Older People in Surgery	South Eastern Sydney Local Health District
Janet Maccora	ACT AAG National Conference Travel Bursary	Financial support to attend annual AAG conference, based on track record and planned contribution	Australian Association of Gerontology

Janet Maccora	Best 3 min PhD presentation	Small prize for best 3 minute PhD presentation of 14 CEPAR-affiliated candidates at annual CEPAR staff workshop	Centre of Excellence in Population Ageing Research
Kaarin Anstey	2018 Distinguished Contribution to Psychological Science Award	The Distinguished Contribution to Psychological Science Award recognises distinguished theoretical or empirical contributions to psychology by psychologists at mid or later career stages. The contribution may lead to the understanding or amelioration of an important practical problem.	Australian Psychological Society
Julie Brown & Lynne Bilston	3M-ACRS Diamond Road Safety Award	Awarded Highly Commended for the Buckle Up Safely Research Program, 2018	Australian College of Road Safety
Victor Lai	46th Annual Tow Research Awards	Poster prize for poster titled: Combination therapy with mandibular advancement and expiratory positive airway pressure valves reduces severity of obstructive sleep apnoea	Tow Coast Association Health & Medical Research Early Career Awards Day
Kaarin Anstey	Promoted to Scientia Professor	Commencing 1 January 2019	UNSW
Ingvars Birznieks	Promoted to Associate Professor	Commencing 1 January 2019	UNSW
Sylvia Gustin	Promoted to Associate Professor	Commencing 1 January 2019	UNSW
Danny Boerrigter	Publication Excellence Award	Recognising outstanding paper published by a NeuRA research assistant	NeuRA
Juan Olaya	Publication Excellence Award	Recognising outstanding paper published by a NeuRA student	NeuRA
Anna Hudson	Publication Excellence Award	Recognising outstanding paper published by a NeuRA postdoctoral researcher	NeuRA
Fiona Knapman	Outstanding Contribution by a Research Assistant Award	Recognising overall commitment and diligence or a specific excellent achievement at NeuRA	NeuRA
Jessica Turner	Outstanding Contribution by a Research Assistant Award	Recognising overall commitment and diligence or a specific excellent achievement at NeuRA	NeuRA
Yann Quidé	Paxinos Prize	Recognising the best paper published by a postdoctoral researcher in the previous year	NeuRA

IN THE NEWS

NeuRA research received a lot of public attention during 2018. There were 174 print and digital newspaper articles; 49 Radio interviews and 31 television appearances in news items.

A sample of newspaper articles below:

EXCLUSIVE NATIONAL HEALTHCARE

Schizophrenia breakthrough: Scientists identify new suspect at 'scene of crime'

By **Esther Han**
13 September 2018 – 8:00pm

As a type of immune cell, it has always been considered one of the good guys. But in a stunning breakthrough in schizophrenia research, scientists say the "macrophage" immune cell can go rogue, causing havoc in the brain.

"Macrophage" means "big eaters" in Greek and is a fitting name for the cell because - when behaving - it digests cellular debris and foreign substances.

Talking points

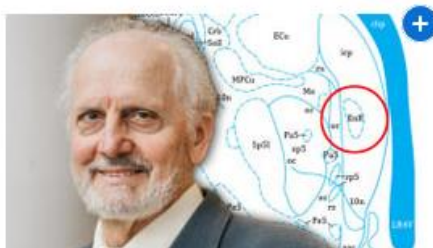
- Australian scientists have found immune cells in the brain tissue of some people with schizophrenia.
- These immune cells, called macrophages, can mess with neurons and damage tissue.
- The breakthrough opens doors to new areas of research and drug development.

Scientists identify new suspect in schizophrenia breakthrough

Prof. Cyndi Shannon Weickert
NSW Chair of Schizophrenia, NeuRA

Most scientists have long held a belief that red, white and immune blood cells are independent from the brain pathology in psychotic illnesses. However Australian researchers have now found that some people with schizophrenia have increased immune cells

Australian researchers have, for the first time, identified the presence of macrophage cells in the brain tissue of a subgroup of people with schizophrenia.



EXCLUSIVE SCIENCE

'It found me': Australian scientist discovers unknown region of the brain

Professor Paxinos has spent more than 40 years using a pencil to hand-draw detailed maps of the human brain.

by Liam Mannix

EXCLUSIVE NATIONAL ROAD SAFETY

Children's car seats: Aussie solution to problem 50 per cent get wrong

By **Julie Power**
9 November 2018 – 12:00am

Children's car seats have never been safer or more protective if they are used correctly, yet for 25 years global studies have found up to 60 per cent are misused, sometimes causing death and serious injuries.

In a major breakthrough, early results of new studies by Australian researcher Dr Julie Brown reduced errors in car seat use by 27 per cent, an international conference on injury prevention in Bangkok heard on Wednesday.



Associate Professor Dr Julie Brown with a child's car seat at Neuroscience Research Australia in Randwick. DOMINIC LORRIMER

TRANSLATION STORIES

Taking a different approach to Parkinson's research

Professor Caroline Rae is working on an early detection program for Parkinson's disease to identify people most at risk. The program will also identify those in the early stages of the disease so that treatment can be introduced sooner. An interview with Professor Rae expands on this important new approach in Parkinson's research (*Published in the NeuRA Magazine Issue 27, 2018*)

Early detection

Our work is aimed at finding biomarkers for early detection of Parkinson's disease to robustly and reliably identify those people most at risk of developing the disease. Early detection means that people can start treatment much earlier when there is still a good part of the substantia nigra and its connections left to remediate.

Why are you taking a different approach to Parkinson's disease research?

The main reason is that by the time a person is diagnosed with Parkinson's they have unfortunately lost areas of their brain which they need in order to recover. We did an initial study looking at a particular area of the brain affected by Parkinson's disease called the substantia nigra and found that at the point they were diagnosed this part of the brain had deteriorated or died. This is a critical area of the brain that produces a neurotransmitter called dopamine and is involved in motor control. It is eroded by this disease, and by the time a neurologist makes a diagnosis, it is too late to save this important functional part of the brain. That is why it is critical to take a different approach to identify the disease well in advance of its symptoms.

What is the substantia nigra and why is it important?

The substantia nigra forms part of the nigrostriatal circuitry which connects other parts of the brain associated with control of movement, and includes nerves that use dopamine as their major chemical communicator or neurotransmitter. Parkinson's disease targets these nerves in particular, so as they die off the brain's ability to control movement is reduced, producing the symptoms which are a hallmark of the disease.

How does Magnetic Resonance Imaging (MRI) technology provide new insights?

We use MRI technology to study brain structure and as MRI technology is evolving it is enabling us to measure brain structure on a much finer detailed level and in more difficult and deeper parts of the brain. The substantia nigra is right down at the bottom of the brain and is an area that has not been easy to image. It is also technically challenging to track the connections from the substantia nigra to other parts of the brain. We are one of the few groups here at NeuRA who are looking at substantia nigra connections in those at higher risk of developing Parkinson's. We use a technique called High Angular Resolution Diffusion Imaging (HARDI) to actually look at the wiring between the substantia nigra and other parts of the brain that control movement. We have found that by the time people are diagnosed with Parkinson's disease they have largely already lost most, if not all, of the connections from the substantia nigra to the rest of the brain.

Why is it important to catch Parkinson's disease 10-15 years in advance?

We are studying a group of people whose substantia nigra has a feature that makes it give a larger than usual signal in response to a pulse of ultrasound delivered by placing an ultrasound probe over a particular place on the skull. It has been shown by a group in Germany that people with this feature are seventeen times more likely to go on to develop Parkinson's. In our initial MRI study of these people, we have found that they have already lost up to 60 per cent of the connections between the substantia nigra and the rest of the brain. A neurologist, doing normal clinical checks, will rate these people as healthy. However, if we put very sensitive accelerometers on the fingers of these people while they are doing small tasks with their hands, like lifting an object, we can find subtle signs of motor impairment.