



NEURA RESEARCH REPORT 2017



NeuRA

Discover. Conquer. Cure.

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 27 neuroscience research groups 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

Ethics the moral principles that influence and govern our conduct

Enquiry our constant pursuit of knowledge and understanding

Human Impact our desire to make a genuine positive human health impact

Respect we respect the feelings and rights of all human beings, and admire their achievements

Excellence we will achieve the very best possible

Accountability we are accountable for our actions and decisions

Our Name

Neuroscience the science of the brain and nervous system. It is our focus, expertise and dedication.

Research 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.

Australia 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:

Ageing & Neurodegeneration: Alzheimer's disease, frontotemporal dementia and other dementias, Parkinson's disease, Motor Neurone Disease, ageing research in indigenous populations, stroke rehabilitation

Brain Structure & Function: Brain mapping for research and clinical use, biochemical and structural bases of brain function, development of MRI methods

Neural Injury: Spinal cord injury, assessment and prevention of road trauma in children

Mental Illness: Schizophrenia, bipolar disorder, depression and autism

Sensation, Movement, Balance & Falls: 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 and Genetic Repositories Australia. The institute has an on-site 3T MRI imaging research facility.

Leadership

Professor Peter R Schofield, FAHMS PhD DSc, has been the Executive Director and CEO of Neuroscience Research Australia since 2004. Professor Simon Gandevia, MD PhD DSc FAA FAHMS 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 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 each from the Commonwealth via the NHMRC and the State via the NSW Minister for Medical Research. There are seven positions for independent directors, and the CEO is also a director. The Chairman is Paul Brassil, BEc LLB FCA FTIA CTA, a partner at PricewaterhouseCoopers. 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 for the 2016 calendar year were \$16 million. The most significant funding body is the NHMRC which awarded \$10.52 million in 2016. This includes 27 research and postdoctoral fellowships and 26 research grants. NeuRA hosts two NHMRC Program Grants at the institute, and one Research Team Grant. The Australian Research Council awarded \$1million in 2016, which includes a Discovery early career award and a node of a Centre of Excellence.

Through the NSW Government's Medical Research Support Program, NeuRA secured \$4.1million in 2016. NeuRA also received \$2.6 million in 2016 from UNSW for research infrastructure.

The NeuRA Foundation, established in 2007 to enhance philanthropic fundraising to underpin the activities of the institute, continues to grow. The Foundation raised \$6.7 million in philanthropic support in 2016. To date, it has raised \$37 million, with additional pledges of over \$7 million.

Total income in 2016 was \$30.9 million and operational expenditure was \$25.6 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.



2017 AT A GLANCE

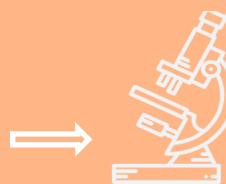
Public & Community Involvement



543 healthy
volunteers participated
in 59 research projects



74 attended sleep
clinics



47 brain & 17 spinal cord
donations producing >3,500
samples for research



760 participating in in-
home technology-based
falls prevention programs

50 attended 15
private or small
tours



Engagement through social media



731,526 website
page views

66 videos,
43,889
You
Tube



12,731
Facebook
followers



13,321 views of
NeuRA Talks
videos

3,619 LinkedIn
followers



831 tweets

237
Instagram
followers



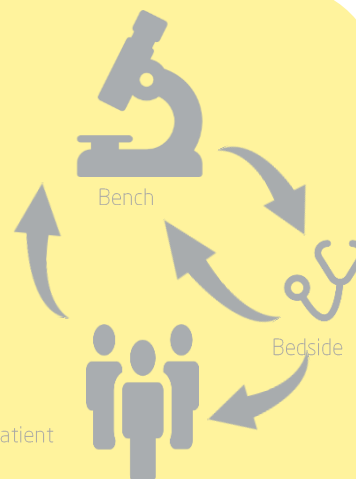
Performance



129 active grants
from 45 funding
bodies



289
publications

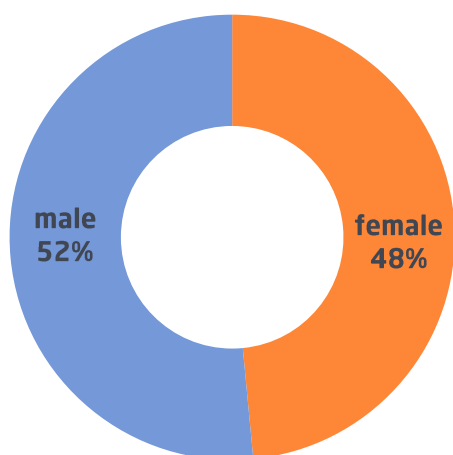


21 Clinical trials

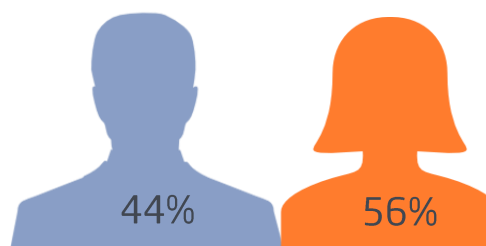
Our People

Staff/Students

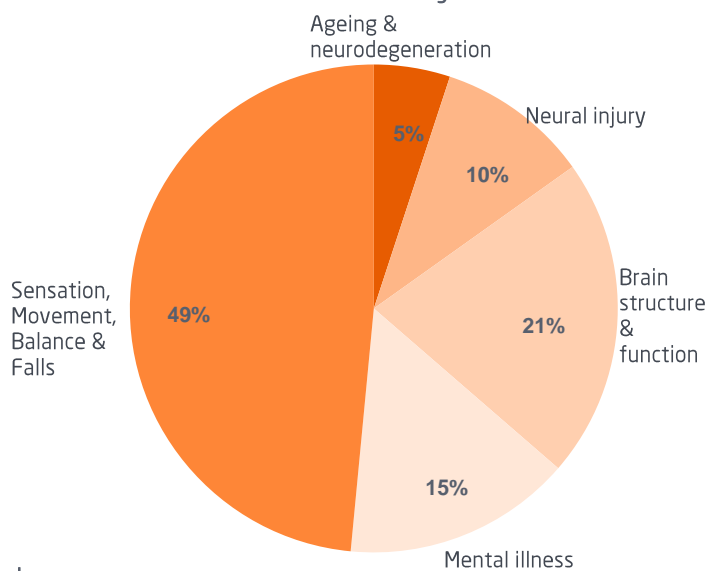
Group leaders



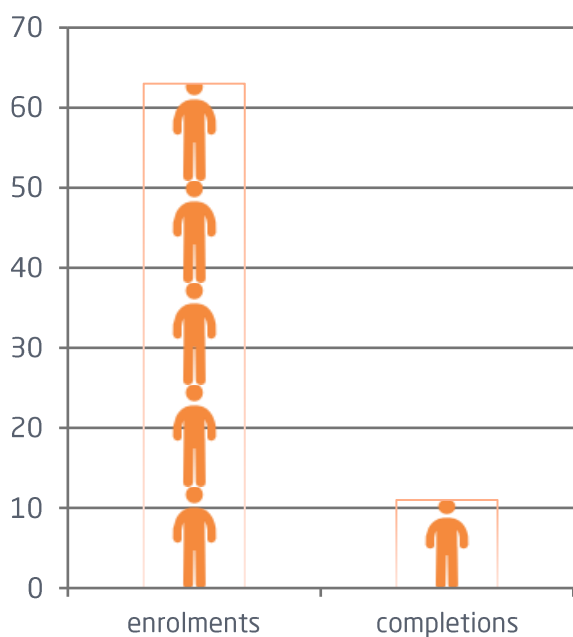
All Staff



Research staff by theme



HDR Student enrolments and completions



22 research fellowships
and 25 scholarships

From 29
nations



2017 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 2017:

National Health and Medical Research Council

Bilston LE. Senior Research Fellowship B (2015-2019), 2017 amount \$135,162

Bilston LE, Butler J, Eckert D, McKenzie D. Biomechanical, Neural and Sensory Phenotyping of the Upper Airway in Obstructive Sleep Apnoea, Project Grant (2014-2017), 2017 amount \$179,076

Bilston LE, Cistulli P, Sutherland K, Butler J. Predicting treatment response to mandibular advancement splints: a novel biomechanical imaging method, Project Grant (2015-2017), 2017 amount \$155,731

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

Brown J. Industry Career Development Fellowship Level 2 (2017-2020), 2017 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), 2017 amount \$157,185.50

Butler J. Senior Research Fellowship A (2014-2019), 2017 amount \$118,157

Cairns M. Senior Research Fellowship – SRFA (2017-2021), 2017 amount \$126,274 (check figures)

Close J, Clemson L, Sherrington C, Kurrle S, Hill K. Preventing Falls in Older People with Dementia - A Randomised Controlled Trial, Project Grant (2014-2017), 2017 amount \$291,912

Delbaere K. Using technology towards effective self-management of fall risk in older adults, Career Development Fellowship (Level 2) – Industry (2016-2019), 2017 amount \$115,913

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), 2017 amount \$118,438

Eckert D. Senior Research Fellowship (General) SRF-A (2017-2021), 2017 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), 2017 amount \$1,366,196

Gatt J. Resilience - What is it and how do we promote it? Career Development Fellowship (Level 1) – Industry (2014-2017), *Administered by UNSW School of Psychiatry, 2017 amount \$101,221*

Gatt J, Turner R, Williams L. *Neural trajectories towards vulnerability versus resilience: A longitudinal twin study Project Grant* (2017-2021), 2017 amount \$326,149

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*

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), *Administered by the University of Sydney, 2017 NeuRA sub-contract \$106,899*

Gustin S. Identifying the neural signature of persistent pain, Project Grant – New Investigator (2015-2017), *Administered by UNSW, School of Psychology, 2017 amount \$173,368.50*

Halliday G, Gotz J, Ittner L, Kril J, Hodges J, Kiernan M. Frontotemporal dementia and motor neurodegenerative syndromes, Program Grant (2013-2017), 2017 sub-award amount \$65,376.87

Halliday G, Hodges J, Lewis S, Piguet O, Kril J, Kwok J, Villemagne V, Kiernan M, Rowe D, McKeith I. Alzheimer's disease degenerative dementias: Identifying prodromal genetic/familial phenotypes, modifying factors, and protein variations involved in progression, Dementia Research Teams Grants (2015-2020), 2017 amount \$145,225.99

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), 2017 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), 2017 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*

Ittner L, Housley G, Kassiou M, Karl T, van Eersel J. Targeting post-synaptic tau to treat Alzheimer's disease, Project grant (2015-2019), *Administered by UNSW*

Karl T, Shannon Weickert C. Neuregulin 1 Type III Overexpression and Schizophrenia, Project Grant (2016-2019) *Administered by University of Western Sydney, 2017 sub-award amount \$121,647.51*

Kurrie S, Close J. NHMRC Partnership Centre for Cognitive and Related Functional Decline in Older People, Partnership Centres for Better Health: Cognitive Decline (2017-2018), 2017 amount \$276,793

Lord S. Fall prevention in older people and those with neurodegenerative disorders, Senior Principal Research Fellowship (SPRF) (2017-2021), 2017 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), 2017 amount \$314,343

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

Macefield V, Henderson L. Brain imaging of cardiovascular control during muscle pain, Project Grant (2016-2018) 2017 amount \$123,661

Mitchell P, Schofield P, Parker G, Breakspear M. Depressive and bipolar disorders: Pathophysiology, phenotypes and treatment innovations, Program Grant (2013-2017), 2017 amount \$381,707

Park S, Krishnan A, Goldstein D, Friedlander M, Lin C, Kwok J, Boyle F, Horvath L, Haas M, Barnes E. Long-term nerve damage in cancer survivors: identification of risk factors and optimal assessment strategies, Project grant (2015-2019), *Administered by the University of Sydney, 2017 NeuRA sub-account amount \$6,236.67*

Paxinos G, Senior Principal Research Fellowship (2013-2017), 2017 amount \$161,675

Paxinos G, Schira M. A 3D cross-modality atlas of the human brainstem for scientists and clinicians, Project Grant (2015-2017), 2017 amount \$80,027

Radford K. Ageing and dementia in Aboriginal Australians: promoting vitality, identifying decline and supporting communities, Dementia Research Development Fellowships (2016-2019) 2017 amount \$198,249.90

Roscioli T. Transforming the diagnosis and management of severe neurocognitive disorders through genomics, Centres of Research Excellence (2017-2021), 2017 amount \$287,618

Roscioli T. Intellectual Disability Flagship (AGHA Neurocognitive Flagship), Genomics Targeted Call for Research, 2017 amount \$170,000

Schabrun S, McAuley J, Graven-Nielsen T, Nicholas M, Henschke N, Khan A. Understanding persistent low back pain where it resides in the brain, Project Grant (2014-2017), *Administered by University of Western Sydney*

Shannon Weickert C. Neurobiology of schizophrenia and translation into new treatments, Reapplication with Promotion to Principal Research Fellowship (2017-2021), 2017 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), 2017 amount \$278,345

Taylor M. Understanding and preventing physical and cognitive decline and falls in older people with dementia, Dementia Research Development Fellowships (2016-2019) 2017 amount \$153,730.70

Australian Research Council

Bilston L, Gefen A, Sinkus R, Nordsletten D. Measuring large deformation tissue mechanical behaviour in living humans, Discovery Project (2016-2019), 2017 amount \$159,000

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

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), 2017 amount \$68,000

Egan G, Marcello R, Mattingly J, Robinson, P, Sah P, Stuart G, Ibbotson M, Breakspear M, Lowery A, Arabzadeh E, Paxinos G, Martin P, Petrou S, Grunert U, Skafidas E, Garrido M, Mitra P, Sporns O, Victor J, Margrie T, Diamond M, Johnson G, Leopold D, Movshon J, Markram H, Hill S. ARC Centre of Excellence for Integrative Brain Function. Centre of Excellence (2014-2020), 2017 sub-contract amount \$127,082

Karayanidis F, Forstmann B, Steyvers M, Jamadar S, Hawkins G, Lenroot R, Michie P. Modelling trajectories of cognitive control in adolescents and young adults, Discovery Project (2017-2019), *Administered by University of Newcastle*

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*

Paxinos G, Rosa M, Furlong T, Merlin S, Atapour N. Distribution and function of inhibitory interneurons in the cortex as a function of age, Centre of Excellence Shared Grant: CIBF Strategic Initiative Project (SIP), 2017 amount \$19,950

Shannon Weickert C, Guy B, Fung S. Enhancing neurogenesis in the adult primate brain, Discovery Project (2015-2017), 2017 amount \$105,500

Trengove R, Broadhurst D, Carapetis J, Sampson D, Leedman P, Millar A, Dixon K, Kenderine S, Rae C, Mamo J, Pluske J, Needham M, Nicholson J, Plumb R, Holmes E. Australian Metabolic Phenotyping Centre (AMPC), Linkage Infrastructure, Equipment and Facilities (2017), *Administered by Murdoch University*

NSW Health Dept / NSW Office for Science & Medical Research

Joyner K, Schofield P. SPHERE2017 International Symposium, NSW Health - Office of Health and Medical Research, 2017 amount \$10,000

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

Other Funding Bodies

Bolsterlee B, Herbert R. A quantitative atlas of three-dimensional architecture of human forearm and hand muscles in vivo, The Lincoln Centre for Research into Bone and Joint diseases, Research Grant, \$22,596

Bongers A, Ashwell K, Bilston L, Rashid I, Stocker R, Walsh B. RF- coils to improve high field pre-clinical Magnetic Resonance Imaging capabilities at Biological Resources Imaging Laboratory, UNSW Research Infrastructure Scheme *Administered by UNSW*

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, (2017-2018), 2017 amount \$86,000

Brooks W. The prevention of Alzheimer's disease: an international clinical drug trial to determine if early treatment can halt disease progression, Roth Charitable Foundation (2015-2017), 2017 amount \$94,000

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 (2014-2018), *Administered by University of Washington*, 2017 amount \$103,227

Brown J, Keay L, Coxon K, Bilston L. Development of guidelines for use of comfort and orthopedic aids for older people travelling in cars, Clive & Vera Ramaciotti Health Foundation Health Investment Grant, \$150,000

Brown J. To conduct a 10 year review of children fatally injured in car crashes in NSW, New South Wales Ombudsman Contract Research, \$19,360

Brown J, Griffiths M, Kelly P, Paine D, Paine M. Review and Revise Child Restraint Evaluation Program (CREP) Testing and Rating Protocols, Transport for NSW Contract Research, 2017 amount \$67,320

Butler J, Gandevis S. Bipolar needle electrode recording of parasternal EMG, Alfred Mann Foundation for Scientific Research Contract Research, 2017 amount \$9,050

Carter S. Australasian Sleep Association, International Travel Award, \$5,000

Close J. Better care costs less – a shared care approach to older surgical patients, South Eastern Sydney Local Health District (SESLHD The Inspiring Ideas Challenge (2016-2017), 2017 amount \$78,000

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

Cysique L, Mewton L. Determining whether cognitive training exercises focusing on executive functioning can reduce the incidence of risky behaviours, anxiety and negative emotions associated with the development of mental illness. Brain Sciences UNSW Seed Funding (2015-2017), 2017 amount \$3,000

Dadds M, Lenroot R, Kimonis E, Hawes D, Moul C, Frick P, Anderson V. Like father like son: A national approach to violence, antisocial behaviour and the mental health of men and boys. Movember Foundation Australian Mental Health Award (2014-2017), *Administered by UNSW*

- Furlong T, Paxinos G, Balleine B. Dopamine dysregulation syndrome in Parkinson's disease: constructing a rat model and testing the efficacy of N-acetylcysteine treatment, Parkinson's NSW, Seed Grant, \$20,000
- Gatt J. Targeting anxiety and depression from a resilience perspective, The Giving Well, Research Grant, \$6,105
- 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), 2017 amount \$67,927
- 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) 2017 amount \$80,000
- Halliday G, Lewis S, Dzamko N, Kwok J. Are there peripheral changes in GBA protein/activity in idiopathic Parkinson's disease patients, Michael J Fox Foundation for Parkinson's Research/Shake it Up Australia Fndn, (2016-2017) 2017 amount \$219,548.96
- Harvey L, Close J, Harris I, Mitchell R, Cameron I, Sarraimi P. Using linked data to evaluate and improve hip fracture care, NSW Agency for Clinical Innovation, \$63,576
- Herbert R, Broderick C, Latimer J. Risk models to optimize prophylaxis schedules in children with haemophilia, Baxter Healthcare Corporation (USA) (2015-2017), 2017 amount USD \$61,068.33
- 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, (2017-2019) 2017 amount \$60,000
- 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), 2017 amount \$80,000
- Jugé L, Bilston L. Development of an imaging biomarker to differentiate early causes of dementia, Rebecca L Cooper Medical Research Foundation, Research Grant, 2017 amount \$24,000
- Kondo M. Understanding the molecular control of human neurogenesis in health and in schizophrenia, UNSW Vice Chancellors' Post-Doctoral Fellowship (2016- 2018) *Administered by UNSW*
- Lord S. NSW Falls Prevention Network, Clinical Excellence Commission, Contract research work (2017-2018), 2017 amount \$131,000
- 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) 2017 amount \$48,143
- 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) 2017 amount \$199,508
- Osten P, Albeanu D, Mitra P, Mori S, Paxinos G, Rockland K. Towards quantitative cell type-based mapping of the whole mouse brain, NIH - Department of Health and Human Services BRAIN Initiative: Transformative Approaches for Cell-Type Classification (2015-2017), *Administered by Cold Springs Harbor Laboratory*, 2017 NeuRA sub-contract amount USD \$27,939.85
- Pla J, McCarney D, Rae C, Dzurak A, Morello A, Duty T, Kavallaris M. Quantum-Limited Electron Spin Resonance Imaging, UNSW Research Infrastructure Scheme (2017), *Administered by UNSW*
- 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, Delbaere K, Broe T, Draper B, Garvey G, Schofield P, Cumming R. Longitudinal social and biomedical risk factors for incident dementia and cognitive decline in urban and regional Aboriginal Australians, Dementia Collaborative Research Centres Research Project, (2016-2017) 2017 amount \$50,000

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), 2017 amount \$368,588.22

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), 2017 amount \$41,036

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

Roscioli T. Genome Connect Clinical Academic Group, SPHERE Partnership Program, 2017 amount \$127,341

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, (2016-2017), 2017 amount \$85,000

Stanford R. A multi-Center, randomized, placebo controlled, double-blinded, trial of efficacy and safety of Riluzole in acute spinal injury. AO North America Charitable Foundation (2015-2017), 2017 amount \$14,425

Stoodley M, Bilston L. Chiari malformation and syringomyelia: investigating effects of respiration, Valsalva and aquaporin treatment, Column of Hope Foundation Research Grant, 2017 amount \$45,580

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

Van Schooten K. Brain and brawn in balance: disentangling central and peripheral contributions to balance control, Human Frontier Science Organisation Postdoctoral Research Fellowship (Nov 2017-2019), 2017 amount \$12,050

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, 2017 amount \$48,600*

Scholarships

- Achanta L. UNSW Tuition Fee Scholarship (2017-2020), \$26,682
- Alexander R. Australian Postgraduate Award, (2015-2018), \$26,682
- Bagg M. Australian Postgraduate Award, (2015-2018), \$26,682
- Bagg M. UNSW Research Excellence Scholarship, (2015-2017), \$10,000
- Bakhshi N. UNSW University Postgraduate Award, (2016-2018), \$26,682
- Bolton A. Australian Postgraduate Award, (2017-2020), \$13,341
- Cai H. Australian Postgraduate Award, (2015-2018), \$26,682
- Carter S. Australian Postgraduate Award, (2015-2017), \$26,682
- Cashin A. POWCS Postgraduate Research Scholarship, (2017), \$26,682
- D'Souza A. Royal Freemasons Benevolent Institution Scholarship for Postgraduate Research Studies, (2015-2018), \$26,682
- Fatima M. Australian Postgraduate Award, (2015-2017), \$26,682
- Finn H. Australian Postgraduate Award, (2015-2018), \$26,682
- Hall A. Australian Postgraduate Award, (2015-2017), \$26,682
- Hensen H. University International Postgraduate Award, (2016-2019), \$26,682
- Hesam Shariati N. University International Postgraduate Award, (2014-2017), \$26,682
- Hsiao J-H. Elizabeth Gilbert Scholarship (2015-2018), \$26,682
- Hutchings R. Australian Postgraduate Award, (2015-2017), \$26,682
- Lazarus J. Australian Postgraduate Award, (2016-2017), \$26,682
- Lee CH. Australian Postgraduate Award, (2016-2019), \$26,682
- Lim R. UNSW University Postgraduate Award, (2017-2020), \$13,341
- Lloyd D. Australian Postgraduate Award, (2015-2018), \$26,682

- Lloyd R. Column of Hope PhD Scholarship, (2016-2018), \$26,682
- Lourenco G. Tuition Fee Scholarship, (2014-2017), \$13,341
- Mahfuz MM. UNSW University Postgraduate Award, (2017-2020), \$13,341
- Mazzoni A. Autism CRC Postgraduate Research Scholarship, (2015-2017), \$26,682
- Mulligan C. Prince of Wales Clinical School Postgraduate Research Scholarship, (2015-2017), \$6,250
- Murphy C. Australian Postgraduate Award, (2017-2020), \$26,682
- Norris C. Royal Freemasons Benevolent Institution Scholarship for Postgraduate Research Studies, (2016-2019), \$26,682
- O'Hagan E. UNSW Research Training Program Scholarship, (2017-2019), \$26,682
- Osman A. CRC for Alertness, Safety & Productivity Postgraduate Scholarship, (2015-2018), \$26,682
- Owens S. Australian Postgraduate Award, (2015-2019), \$26,682
- Pelicioni P. Coordenação de Aperfeiçoamento de Pessoal de Nível Superior (CAPES) Brazil Scholarship, (2016-2019)
- Rinaudo C. Australian Postgraduate Award, (2017-2020), \$26,682
- Rowlands B. Australian Postgraduate Award, (2014-2017), \$20,011
- Skinner I. NHMRC Dora Lush Postgraduate Scholarship, (2015-2017), \$23,819.33
- Tomazini-Martins R. University International Postgraduate Award (2014-2017), \$13,341
- Tong B. UNSW University Postgraduate Award, (2017-2020), \$13,341
- Tsai S-Y. Cowled Postgraduate Scholarship for Brain Research (2016-2017), \$31,288
- Watkeys O. Australian Postgraduate Award, (2017-2020), \$13,341
- Zieba J. Schizophrenia Research Institute Postgraduate Research Scholarship (2015-2018), \$25,000

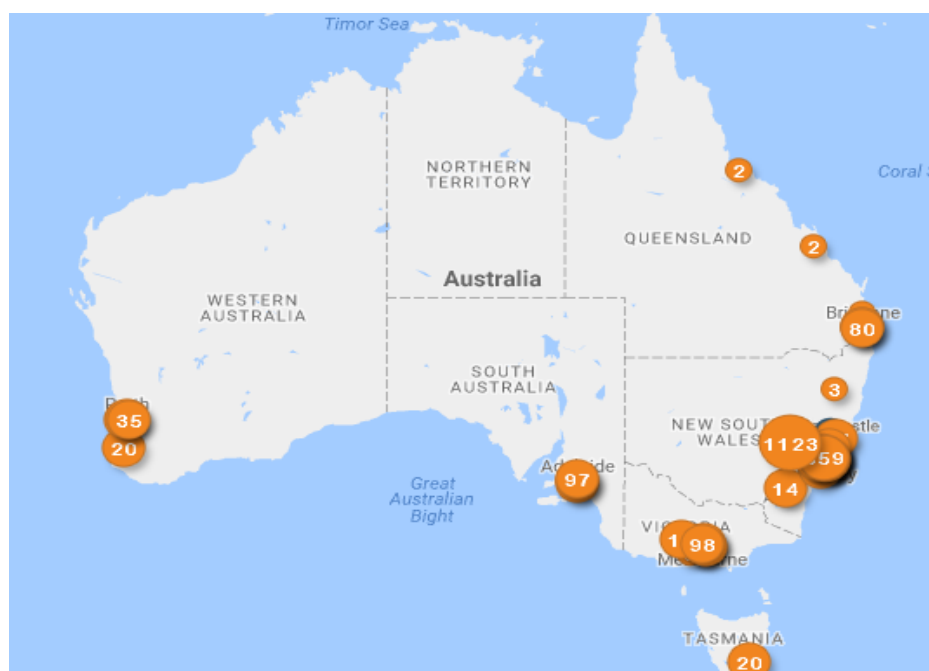
COLLABORATION

From 2012-2017 NeuRA researches have collaborated with 746 collaborating institutions on 2,525 co-authored publications (Source: SciVal 18 December 2017)

Region	Collaborating Institutions	Co-authored publications
Asia Pacific	178	1,611
Europe	354	530
Middle East	13	26
Africa	4	8
North America	169	312
South America	28	38



Below: Within Australia (2012-2017) - 95 collaborating institution co-authored 1,579 publications



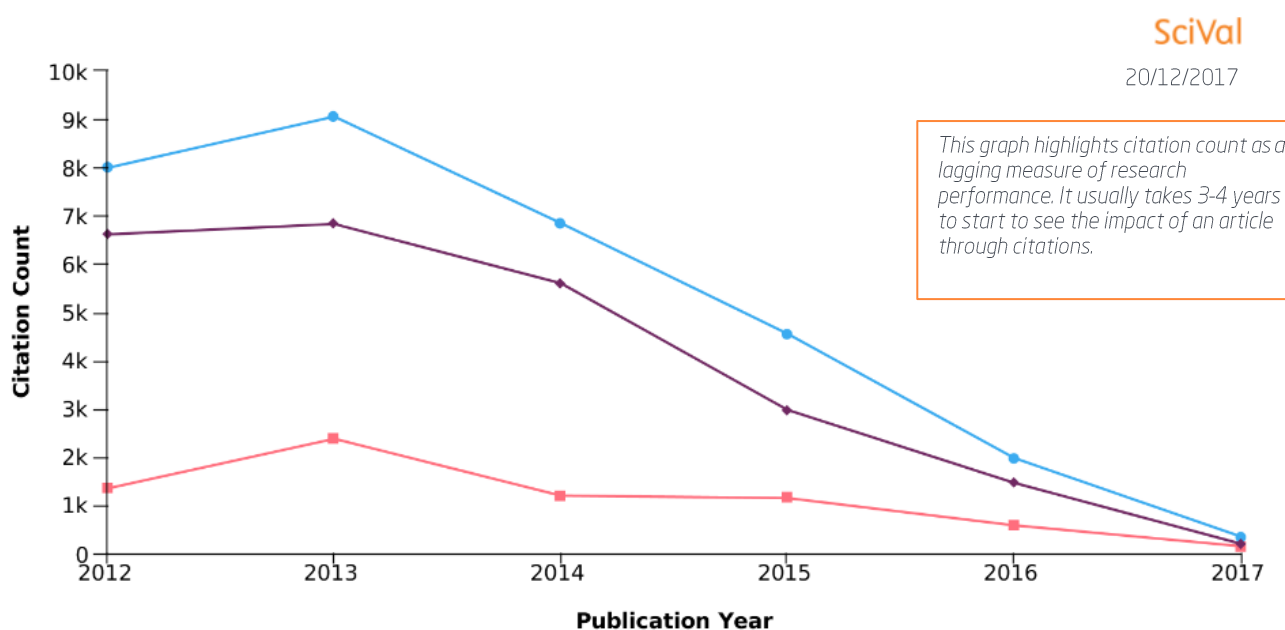
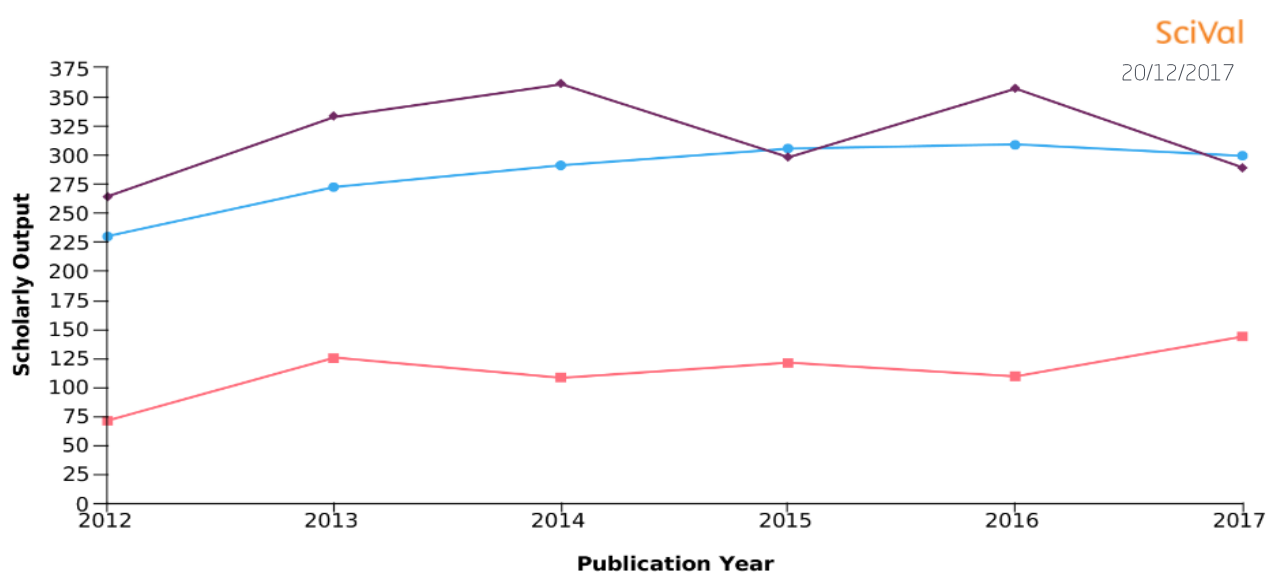
Benchmarking

2016 Figures ²			
	NeuRA	Garvan	Black Dog Institute
Years in operation	23	53	14
Research grant income	\$16,094,337	\$29,657,000	\$7,452,611
Clinical trials (active)	21	25	11
HDR students	62	84	19
Publications (at 20/12/2017)	289	299	143

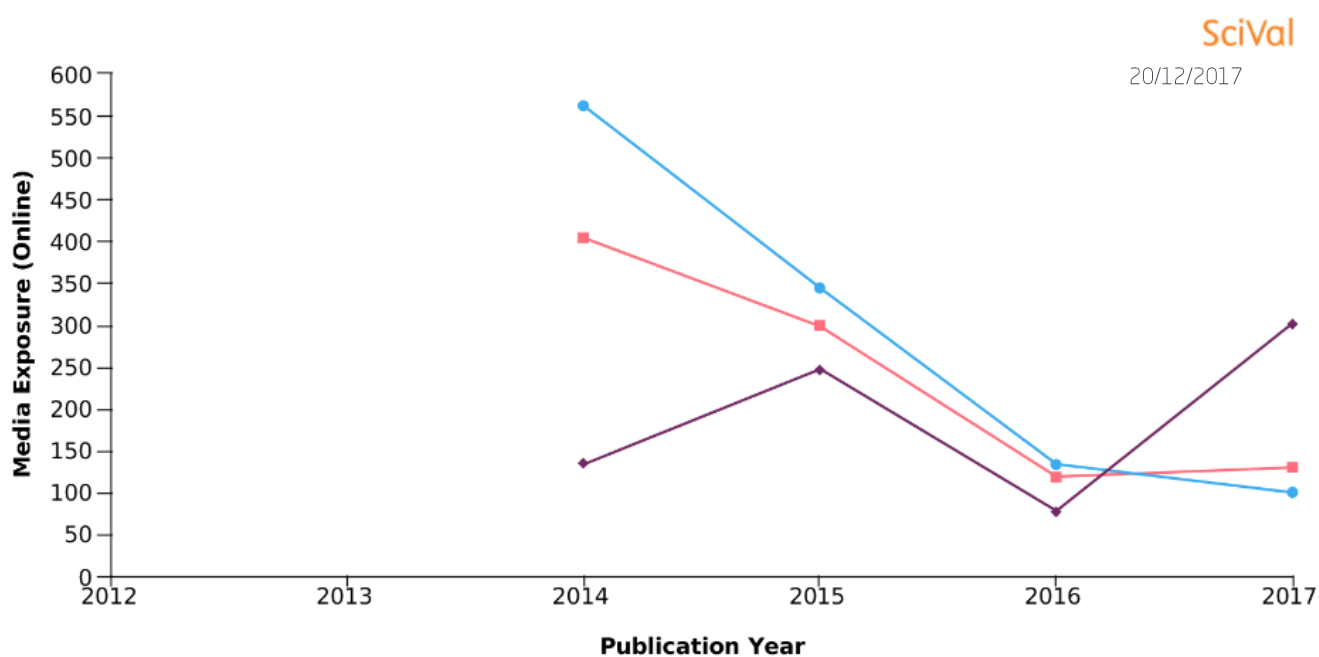
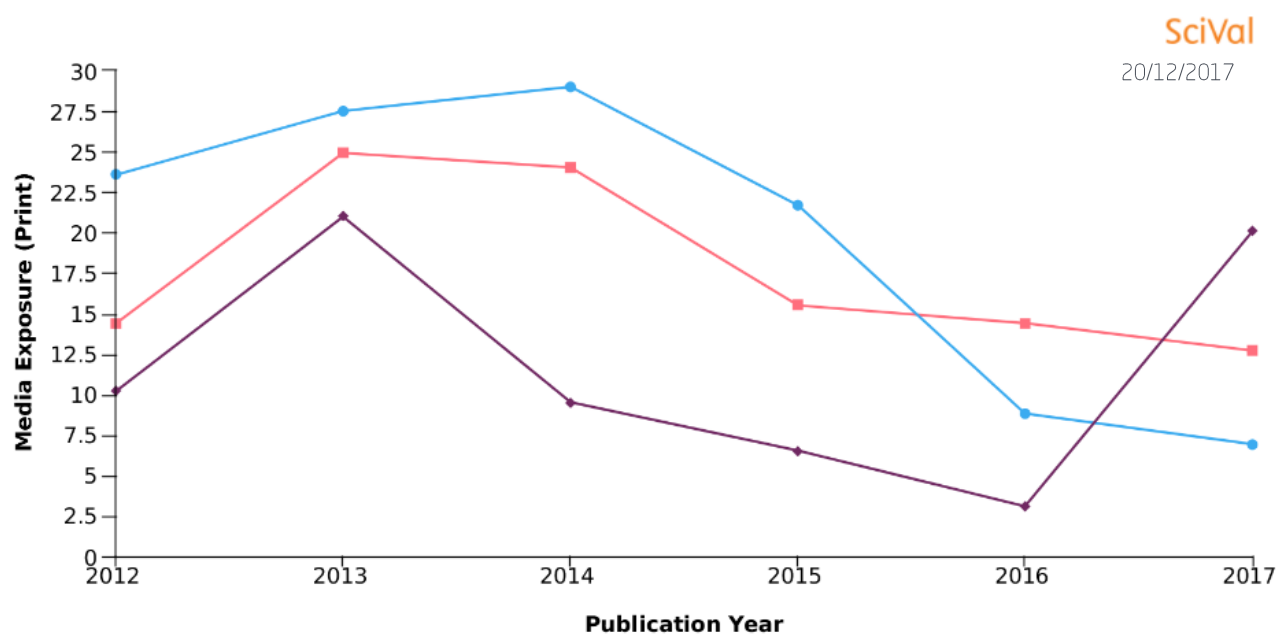
² Except publications – 2017 figures reported

Chart Legend

■ Black Dog Institute [Institution]
 ● Garvan Institute of Medical Research [Institution]
 ◆ Neuroscience Research Australia [Institution]



Below: Media Exposure of published articles includes internationally recognised, regionally recognised, nationally recognised, locally recognised, local interest.



Journal Articles

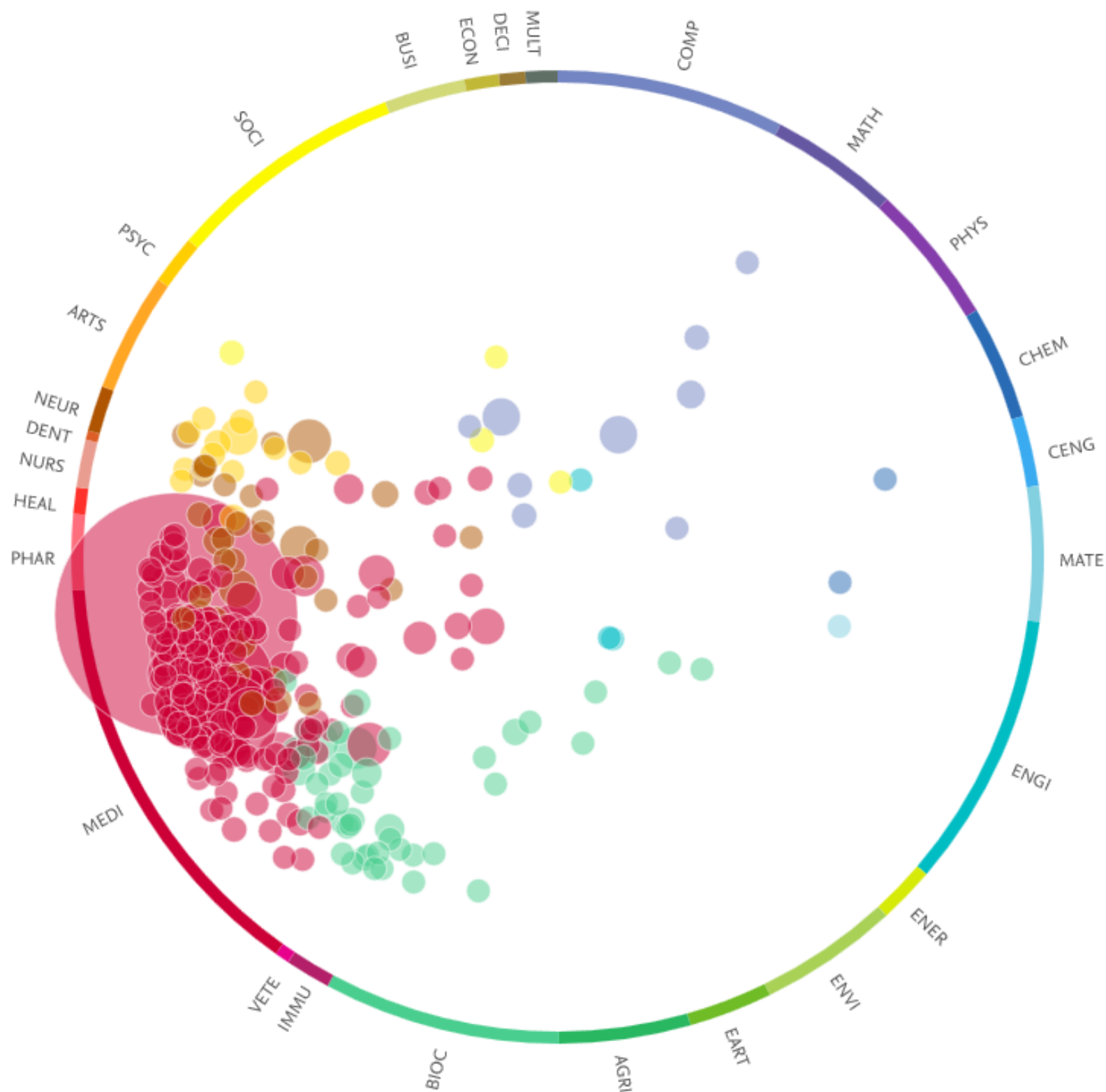
Researchers at Neuroscience Research Australia have contributed to 683 topics between 2012 to 2017 (SciVal 20/12/2017)

Bubble size: Scholarly Output of Neuroscience Research Australia

View: **Top 10%**



of worldwide Topics by Prominence



Subject area abbreviations

COMP	Computer Science	MEDI	Medicine
MATH	Mathematics	PHAR	Pharmacology, Toxicology and Pharmaceutics
PHYS	Physics and Astronomy	HEAL	Health Professions
CHEM	Chemistry	NURS	Nursing
CENG	Chemical Engineering	DENT	Dentistry
MATE	Materials Science	NEUR	Neuroscience
ENGI	Engineering	ARTS	Arts and Humanities
ENER	Energy	PSYC	Psychology
ENVI	Environmental Science	SOCI	Social Sciences
EART	Earth and Planetary Sciences	BUSI	Business, Management and Accounting
AGRI	Agricultural and Biological Sciences	ECON	Economics, Econometrics and Finance
BIOC	Biochemistry, Genetics and Molecular Biology	DECI	Decision Sciences
IMMU	Immunology and Microbiology	MULT	Multidisciplinary
VETE	Veterinary		

PUBLICATIONS

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RECOGNITION

Dr Julie Brown	NHMRC Research Excellence Award for the highest ranked Career Development Fellowship in the Industry - Level 2 category in 2016	National Health & Medical Research Council
Dr Julie Brown	2017 Pam Albany Memorial Award for Contributions to Policy In Injury Prevention and Safety Promotion. Awarded for her body of work. In their tweet they said " <i>Julie's work is a great example of research translation with direct influence on child seat safety, motorcycle protective clothing and strategic directions in motorcycle safety.</i> "	Australian Injury Prevention Network
Prof Jacqueline Close & Prof Ian Harris (UNSW)	Research Australia Health Services Research Award. The Australian and New Zealand Hip Fracture Registry (ANZHFR) was awarded the Health Services Research Award at Research Australia's Annual Health and Medical Research Awards. The role of the ANZHFR is to use data to improve hip fracture care and is a prime example of harnessing the transformative power of data to accelerate advances in health. Professor Jacqui Close and Professor Ian Harris (UNSW) are the co-Chairs of the Australian and New Zealand Hip Fracture Registry (ANZHFR) Steering Group	Research Australia
Prof Simon Gandevia	Awarded a Fellow of the Physiological Society , recognising continuous and active service to The Society and to the discipline.	The Physiological Society (UK)
Rodrigo Martins	Awarded a Young Investigator Award for his abstract " <i>Effects of Morphine on the Phenotypic Causes of Obstructive Sleep Apnea</i> " presented at the World Sleep 2017 Congress in Prague, Czech Republic.	World Sleep Society

Translation

In Australia, injuries remain the number one cause of death among children over the age of one with a cost to the nation of over \$212 million each year, and a mean cost per child of \$3,119. In NSW alone, around 60 children (aged 1-16 years) die as a result of an unintentional injury, and a further 20,000 are hospitalised each year.



In response, NSW child safety and health experts – from Sydney Children’s Hospitals Network, [NeuRA](#) and [NSW Kidsafe](#) – have joined forces to develop the Child Safety Good Practice Guide. Funded by NSW Health, the resource aims to reduce unintentional childhood injuries that lead to hospitalisation or death by providing a summary of good practice, to the extent it is known, for each of the leading causes of injury to children in NSW.

Leading medical and child safety experts were joined at the launch of the Child Safety Good Practice Guide by 13-year-old Ethan Wright, who is recovering from serious injuries after falling from his scooter in an accident at his local skate park. Ethan, who had taken his helmet off while his friend filmed him doing a trick, ended up in ICU at Sydney Children’s Hospital, Randwick with concussion and internal bleeding. He said while some kids might consider it uncool to wear a helmet, being in hospital was not cool either.

Working collaboratively, NSW child safety and health experts - including Dr Julie Brown, senior research fellow at NeuRA, Dr Susan Adams, Paediatric Surgeon at Sydney Children’s Hospital, Randwick, Karen Zwi, Community Paediatrician at Sydney Children’s Hospitals Network, and Christine Erskine Executive Officer at Kidsafe NSW - saw the opportunity to provide child safety leadership not only in NSW, but across Australia. This has come in the form of the timely Child Safety Good Practice Guide, funded by NSW Health, and comes as more Australians call out for greater detail and education around child safety issues in their home and close communities and acts as a positive step-forward in eliminating unintentional safety hazards.

The Australia edition of Child Safety Good Practice Guide builds on previous work by child safety researchers from around the globe. The first Guide was initially developed by the European Child Safety Alliance and saw significant success across the continent. The 2017 Australia publication incorporates a new section on safety guidelines for children in sport and includes: cricket, soccer, horse-riding, cycling, baseball, skateboarding, hockey and snowboarding, as well as quad-bikes, and other off-the-road vehicles.

The purpose of the Australia edition of the Child Safety Good Practice Guide is to provide practitioners, decision makers, and legislators with an evidence-focused resource, relevant to the Australian setting, on which they can base their work, funding and recommendations.