

Curriculum Vitae

Professor Anthony J. Hannan

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Qualifications

1988 - 1991 B.Sc. (Honours), University of Sydney

1992 - 1996 Ph.D., School of Medicine, University of Sydney
Research projects in Developmental Neurobiology Unit (Jeffrey Laboratory)
Children's Medical Research Institute, Sydney

Appointments

1996 - 2002 Oxford Nuffield Medical Fellow (1996 – 2000),
Senior Research Scientist (2000 – 2002), Blakemore Laboratory
University Research Lecturer (2002)
University Laboratory of Physiology, University of Oxford

1997 - 2001 Guy Newton Junior Research Fellow
Wolfson College, University of Oxford

2002 – present NHMRC RD Wright Career Development Fellow (2002-2006)
Pfizer Australia Research Fellow (2006-2010)
Honorary NHMRC Senior Research Fellow (2011 - 2014)
ARC Future Fellow (FT3; 2010 - 2014)
NHMRC Senior Research Fellow (2015 - present)
Florey Senior Research Fellow (2002 - 2011)
Florey Principal Research Fellow (2011 - 2013)
Florey Professorial Fellow (2013 – present)
Head, Neural Plasticity Laboratory (2002 - present)
Florey Institute of Neuroscience and Mental Health

Senior Fellow (2002 – 2007), Principal Fellow (2007 – present)
Department of Anatomy and Neuroscience, University of Melbourne

Professorial Fellow (2013 – present)
Florey Department of Neuroscience and Mental Health
University of Melbourne

RESEARCH

Summary of research achievements and evidence of impact

I have published peer-reviewed articles in leading journals including: *Nature*, *Nature Neurosci.*, *Mol. Psychiatry*, *Brain*, *Annals Neurol.*, *J. Neurosci.*, *Cerebral Cortex*, *Neuropsychopharmacology*, *Hum. Mol. Genet.*, *Neurobiol. Dis.*, *Transl. Psychiatry*, *Mol. Autism*, *J. Physiol.*, *Brain Behav. Immun.*, *Nature Rev. Neurosci.*, *Trends Neurosci.*, *Trends Genet.*, *Trends Mol. Med.*, *Prog. Neurobiol.*, *Neurosci. Biobehav. Rev.* and *Bioessays*. I have also edited two books, one as sole editor. The journal articles have been cited >6,000 times (h-index > 40).

My research group has taken our original discovery, with collaborators in Oxford, demonstrating that environmental enrichment (EE) delays onset of motor symptoms in Huntington's disease (HD; van Dellen et al., 2000, *Nature*, >350 cites; Hockly et al., 2002, *Annals Neurol.*, >250 cites; Spires et al., 2004, *J. Neurosci.*, >250 cites) and demonstrated that EE also delays onset of cognitive (Nithianantharajah et al., 2008, *Neurobiol. Dis.*, >100 cites) and affective (Pang et al., 2009, *Hum. Mol. Genet.*, >90 cites) symptoms. We were the first group to demonstrate that an animal model of HD develops depressive-like symptoms (Grote et al., 2005, *Eur. J. Neurosci.*, >100 cites; Pang et al., 2009, *Hum. Mol. Genet.*, >90 cites). Furthermore, we were the first to demonstrate that increased voluntary physical exercise has beneficial effects in an animal model of HD (Pang et al., 2006, *Neurosci.*; >150 cites). Most recently we have discovered experience-dependent HPA-axis dysfunction in HD mice (Du et al., 2012, *Transl. Psychiatry*) and that chronic stress can accelerate onset of cognitive deficits (Mo et al., 2014a,b, *Neurobiol. Dis.*). We were also the first to demonstrate that EE can ameliorate symptoms in animal models of schizophrenia (McOmish et al., 2008, *Mol. Psychiatry*, >100 cites) and Rett syndrome (an autism spectrum disorder; Kondo et al., 2008, >100 cites). We also characterized two new mouse models of schizophrenia involving disrupted cortical development, cognition and behaviour and demonstrated face and predictive validity, (Hannan et al., 2001, *Nature Neurosci.*, >150 cites; Spires et al., 2005, *Cerebral Cortex*, >50 cites; McOmish et al., 2008, *Mol. Psychiatry*, >100 cites; Gray et al., 2009, *Int. J. Neuropsychopharmacol.*, >75 cites; Burrows et al., 2015, *Neuropsychopharmacology*).

This has led to invited plenaries at international and national meetings and invited reviews in major journals where new concepts have been proposed, including that of 'enviromimetics', drugs which could mimic or enhance the beneficial effects of environmental stimulation (e.g. Nithianantharajah and Hannan, 2006, *Nature Rev. Neurosci.*; >800 cites). Our discoveries in HD mice have led directly to studies by University of Melbourne colleagues demonstrating a role for environmental factors in clinical HD (Trembath et al., 2010, *Mov. Dis.*). I have also contributed to our understanding of tandem repeat polymorphisms and their roles in health and disease (Nithianantharajah and Hannan, 2007, *Bioessays*, >50 cites; Fondon et al., 2008, *Trends Neurosci.*, >50 cites; Hannan, 2010, *Trends Genet.*, >50 cites).

Our work demonstrating that environmental modifiers can exert major effects in HD mice is being translated into clinical trials and practice by various groups, including the European Huntington's Disease Network (EHDN) Environmental Modifiers Working Group, of which I am a member. A Melbourne clinician researcher, Prof. Martin Delatycki, whose group published the first epidemiological study translating our work in HD mice (Trembath et al., 2010, *Mov. Dis.*), was an instigator of this important translational research. I have been invited by the Cure Huntington's Disease Initiative (CHDI; largest international HD philanthropy) to a workshop (<20 participants) in New York dedicated to translating our findings on environmental enrichment and exercise into epidemiological studies and intervention trials, which are now being conducted internationally. We have also recently identified a new therapeutic in HD mice (Wright et al., 2015, *Transl. Psychiatry*) and clinical colleagues are keen to take this drug into a clinical trial.

Research Grants

NHMRC and ARC Grants

National Health and Medical Research Council (NHMRC) Project Grant (APP1083468) of \$554,936 as CIA (with CIB Dr Tim Bredy and CIC Dr Terence Pang), entitled 'Transgenerational impacts of paternal stress on offspring mental health: Epigenetic mechanisms and therapeutic interventions' (2015-2017)

NHMRC Project Grant (APP1085977) of \$658,134 as CIA (with CIB Dr Peter Crouch, CIC Dr Jess Nithianantharajah and CID Dr Thibault Renoir), entitled 'Gene-environment interactions modulating cognition and dementia in Huntington's disease' (2015-2017)

NHMRC Project Grant (APP1106206) of \$946,995 as CIB (with CIA A/Prof. Geoff Faulkner and CIC Dr Lucy Palmer), entitled 'Does mobile DNA impact memory formation?' (2016-2018)

NHMRC Project Grant (APP1047674) of \$562,892, as CIA (with CIB Dr Elisa Hill and CIC Dr Daniel Malone), entitled 'Understanding and treating abnormal aggressive behaviour in a model of autism' (2013-2015)

NHMRC Project Grant (APP1044777) of \$451,269, as CIB (with CIA A/Prof. Maarten van den Buuse and CIC Dr Rachel Hill), entitled 'Modeling early intervention in schizophrenia: role of BDNF' (2013-2015)

NHMRC Project Grant (APP1034785) of \$429,262, as CIA (sole investigator), entitled 'Experience-dependent cellular plasticity and cognitive deficits in mouse models of schizophrenia' (2012-2014)

Australian Research Council (ARC) Discovery Grant (DP120102763) of \$345,000, as CIB, with Dr Daniel Hatters as CIA, entitled 'Deciphering the cellular defences against aggregating proteins in human disease' (2012-2014)

NHMRC Senior Research Fellowship (GNT1004475; 2011 – 2014 as Honorary; 2015 onwards as full-time SRF)

ARC Future Fellowship (FT3 / Level E; FT100100835) of \$919,432 over 4 years (2010-2014)

NHMRC Project Grant of \$369,250, as CIA (sole investigator), entitled 'Gene-environment interactions and mechanisms of pathogenesis in models of schizophrenia' (2009-2011)

NHMRC Project Grant of \$451,250, entitled 'Studying the 'two hit' hypothesis of psychiatric illness', with CIA A/Prof. M. van den Buuse (2008-2010)

NHMRC Project Grant of \$528,250, as CIA (sole investigator), entitled 'Molecular mechanisms mediating experience-dependent cellular plasticity and cognitive deficits in Huntington's disease' (2008-2010)

NHMRC Project Grant of \$472,750, entitled 'Studies on the expression of muscarinic receptors: Implications for the pathology of schizophrenia', with CIA A/Prof. B. Dean, Dr E. Scarr and Dr R. Saffery (2008-2010)

NHMRC Project Grant of \$606,625, entitled ‘The role of the Gtf2i gene family in behaviour and Williams Syndrome’, with CIA Dr E. Hardeman (2007-2009)

NHMRC Project Grant of \$515,000, as CIA (lead investigator), entitled ‘Gene-environment interactions and synaptic plasticity in the developing and dysfunctional cerebral cortex’, with Dr M. Murphy (2006-2008)

NHMRC Project Grant of \$245,000, as CIA (lead investigator), entitled ‘Gene-environment interactions and experience-dependent plasticity in the healthy and diseased cerebral cortex’, with Dr M. Murphy and A/Prof. R. Rajan (2004-2006)

University Grants

Melbourne Research Grant Support Scheme (University of Melbourne) grant of \$45,000 for near-miss NHMRC application, entitled ‘Environmental and pharmacological modulation of behavioural endophenotypes in autism spectrum disorder’, following an NHMRC Project Grant application as CIA (2016)

Melbourne Research Grant Support Scheme (University of Melbourne) grant of \$45,000 for near-miss NHMRC application, entitled ‘Mechanisms mediating the beneficial effects of N-Acetylcysteine in Huntington’s disease’, following an NHMRC Project Grant application as CIB, CIA Dr Thibault Renoir (2016)

University of Melbourne FBE/MDHS Collaborative Research Seed-Funding Scheme grant of \$7,500, as co-investigator with Dr Cain Polidano, Dr Anna Zhu and Prof. Joel Bornstein, entitled ‘The relationship between caesarean birth and child cognitive development’ (2016)

Melbourne Social Equity Institute, University of Melbourne, Interdisciplinary Seed Grant of \$15,000, as co-investigator with Dr Victoria Palmer et al., entitled ‘A novel cure – the health and well-being outcomes of creative practices in ageing’ (2015-2016)

Melbourne Neuroscience Institute (MNI), University of Melbourne, Interdisciplinary Seed Funding Scheme grant of \$30,000, as co-investigator with Prof. David Grayden, Dr Emma Burrows (Hannan Lab) and A/Prof. Neil McLachlin, entitled ‘Deciphering the language of mice’ (2014-2015)

University of Melbourne Interdisciplinary Seed Funding Grant of \$50,000, with Dr Daniel Hatters (co-ordinating investigator) and A/Prof. Steven Petrou, entitled ‘Building an “Aggreomics” paradigm for neurodegenerative disease’ (2012)

University of New South Wales (UNSW) Gold Start Grant of \$50,000 for near-miss NHMRC application (submitted through UNSW), entitled ‘The Gtf2ird1 gene family in Williams syndrome’, following an NHMRC Project Grant application with Prof. E. Hardeman as CIA (2010)

University of New South Wales (UNSW) Gold Start Grant of \$40,000 for near-miss ARC application (submitted through UNSW), entitled ‘Mechanisms and neuroplasticity of environmental enrichment’, following an ARC Discovery Grant application with Dr T. Karl as CII (2010)

La Trobe University FSTE Research Block Grant, with Dr D. Loesch (2005)

Other Grants

Jack Brockhoff Grant of \$49,500, 'Identifying new treatments using clinically translatable tests in a genetic mouse model of autism', as lead investigator, with Drs Emma Burrows and Thibault Renoir (2015-2016)

Brain Foundation Research Gift Grant of \$39,000, 'Mechanisms mediating the therapeutic effects of N-Acetylcysteine in neurodegenerative disease', with Dr Thibault Renoir as lead investigator (2015-2016)

Macquarie Foundation philanthropic grant of \$74,000, raised via Halloween Haunt for HD (2015-2016)

Walter Cottman Endowment Fund Grant (Equity Trustees) of \$39,000, 'Understanding and preventing transgenerational increases in predisposition to depression and anxiety disorders', as lead investigator with Dr Terence Pang (2015)

McDonnell Collaborative Award (J.S. McDonnell Foundation) of \$528,500, 'Advancing the science of rehabilitation: Translating neuroscience and rehabilitation research into everyday life', with Prof. L. Carey (PI), Prof. C. Baum, Prof. N. Josman (co-PIs) and other international co-applicants (2015-2017)

Pozible crowd-funded project (www.pozible.com.au) of \$23,000, with Dr E. Burrows, F. Lamont, Florey Institute of Neuroscience and Mental Health (2013-2014)

Cure Huntington's Disease Initiative Foundation Inc. (CHDI, USA) Grant of \$1,449,997, 'Longitudinal Investigation: A neuroimaging study investigating brain structure, function, and connectivity in pre-diagnosis and early symptomatic Huntington's disease individuals using functional magnetic resonance imaging and diffusion tensor imaging (IMAGE-HD)', with A/Prof. N. Georgiou-Karistianis, Prof. G. Egan (lead investigators), Prof. J. Stout, Prof. E. Chiu & Dr A. Churchyard (2010-2013)

Research Grant from Lottery West of \$337,000, entitled 'The effects of environmental enrichment on clinical measures of disease progression and quality of life for patients with Huntington's disease', with A/Prof. M. Ziman (lead investigator), Dr. J. Thompson, Dr R. Barker, Dr C. Connor, Dr J. Lee and Dr S. Lazic, Dr S. Girdler, Prof. R. Newton and the Australian Huntington's Disease Association (2009)

Research Grant from the High Q Foundation (USA, now called CHDI) of \$229,000, entitled 'A neuroimaging study investigating brain structure function, and connectivity in pre-diagnosis and early symptomatic Huntington's disease individuals using functional magnetic resonance imaging and diffusion tensor imaging', with A/Prof. N. Georgiou-Karistianis, A/Prof. G. Egan, Prof. J. Stout, Prof. E. Chiu and Dr A. Churchyard (2008)

Australian Institute of Nuclear Science and Engineering (AINSE) Award of \$30,025, entitled 'Is adult neurogenesis in schizophrenia altered? A pilot study using ¹⁴C dating of post-mortem neuronal DNA', with Prof. J. McGrath, Prof. C. Pantelis, Dr D. Velakoulis and Dr D. Fink (2006)

Arthur and Mary Osbourne Charitable Trust (Medical Research and Technology in Victoria) equipment grant of \$24,000 (2006)

Pfizer Australia Neuroscience Research Grant of \$50,600, with Dr P. Chua & Prof. E. Chui (2006)

Perpetual Trust Grant of \$56,000 for imaging equipment (2005)

Neurological Foundation of New Zealand Grant of NZ\$76,396, entitled, 'The role of cannabinoid CB1 receptors in Huntington's disease', with Dr M. Glass and Prof. R. Faull (2004)

Lord Mayor's Charitable Fund (Eldon and Anne Foote Trust) award, \$150,000 over 3 years (2004)

Wellcome Trust Grant of £430,000, entitled 'Role of phospholipase C- β 1 in dendritic development and plasticity', with Prof. C. Blakemore and Dr P. Kind (2000)

McDonnell Foundation Grant of US\$99,000, entitled 'Learning-dependent processes in barrel cortex', with Prof. C. Blakemore and Prof. M. Kossut (1999)

Royal Society Research Grant of £10,000, entitled 'The cerebral cortex in Huntington's disease' (1999)

Awards, Prizes and Fellowships

Australian Research Council (ARC) Future Fellowship (FT3 / Level E) of \$919,432 over 4 years (2010-2014)

National Health and Medical Research Council (NHRMC) Senior Research Fellowship (Honorary status 2011-2014; salary funded 2015-)

Young Investigator Colloquium Speaker at the 9th Biennial Meeting of the Asia-Pacific Society for Neurochemistry (APSN), Phuket, Thailand (2010)

Pfizer Australia Research Fellowship of \$1,031,683 over 5 years (2006-2010)

Elected Visiting Fellow, St John's College, Oxford, UK (2006)

NHMRC RD Wright Career Development Award of \$400,000 over 5 years (2002-2006)

The International Society for Neurochemistry (ISN) Young Scientist Lecturer Award, presented at the Biennial Meeting of ISN / European Society for Neurochemistry (ESN), Innsbruck (2005)

British Council Eureka Award for Inspiring Science and Australian Museum Eureka Prizes People's Choice Award (2005)

Australian Society for Psychiatric Research (ASPR) prize for best debut oral presentation at the Joint CINP/ASPR Scientific Meeting (2005)

The Federation of European Biochemical Societies (FEBS) Anniversary Prize for outstanding research in biochemistry and molecular biology, presented at the FEBS Congress, Warsaw (2004)

The Australian Neuroscience Society (ANS) A.W. Campbell Award for the best contribution by a member of the Society over the first five postdoctoral years (2004)

The Quantum Scientific Life Science Award (2002)

Oxford University Research Lectureship (2002)

Gordon Research Conferences Young Investigator Award for the CAG Triplet Repeat Disorders Gordon Conference, Mt Holyoke College, USA (2001)

Oxford University Osler Memorial Fund Travel Awards (1999, 2000, 2001)

International Brain Research Organization (IBRO) Travel Fellowship (1999)

The Physiological Society Dale and Affiliate Travel Awards (1998)

Brain Travel Awards (1997, 1998)

The Wolfson College (University of Oxford) Guy Newton Junior Research Fellowship (1997)

The Australian Nuffield Medical Fellowship at Oxford University (1996)

Wellcome Trust Travelling Research Fellowship (1996; declined in favour of Nuffield Fellowship)

The Australian Neuroscience Society (ANS) Sir Grafton Elliot-Smith Award for best essay on a neuroscience topic written by a predoctoral member of the Society (1996)

Invited National Seminars (past 10 years only)

John Curtin School of Med. Research, Australian National University, Canberra (2005)

Queensland Brain Institute, University of Queensland, Brisbane (2005)

Australian Huntington's Disease Association (AHDA) Family Forum, Melbourne (2005)

Garvan Institute of Medical Research, Sydney (2005)

AHDA/Huntington's Research Group Vic. (HRGV) research meeting, Melbourne (2005)

Connectivity Workshop, University of Melbourne (2005)

Centre for Neuroscience seminar, University of Melbourne (2006)

Brain Reserve Symposium, 6th International Congress of Neuropsychiatry, Sydney (2006)

Prince Henry's Institute, Monash University, Melbourne (2006)

Department of Otolaryngology, University of Melbourne (2006)

Plenary Lecture, Aus. Huntington's Disease Assoc. (AHDA) National Conf., Melbourne (2006)

Ian Hendry Symposium, JCSMR, Australian National University, Canberra (2006)

Symposium Speaker, IBRO World Congress of Neuroscience, Melbourne (2007)

Department of Anatomy and Cell Biology, University of Melbourne (2007)

Department of Physiology, University of Melbourne (2007)

John Curtin School of Med. Research, Australian National University, Canberra (2007)

ASPR / World Psychiatry Association meeting, Melbourne (2007)

Australian Neuroscience Society Annual Meeting, Plasticity Symposium, Hobart (2008)

National Stroke Research Institute / Brain Research Institute seminar, Melbourne (2008)

Department of Biochemistry, Bio 21 Institute, University of Melbourne (2008)

Monash Neuroscience Seminar, Monash University, Melbourne (2008)

Plenary Lecture, Australia & New Zealand Society Geriatric Medicine Meeting, Melbourne (2008)

National Conference of the Australian Huntington's Disease Association, Adelaide (2008)

Australasian Society for Psychiatric Research Meeting, Newcastle (2008)

3rd Frontier Technologies in Nervous System Repair Workshop, Mt Lofty, South Australia (2008)

Australian Society for Neuroscience Annual Meeting, Neurogenesis Symposium, Canberra (2009)

International Society for Affective Disorders meeting, BDNF Symposium, Brisbane (2009)

School of Medicine, University of Sydney, Sydney (2009)

National Centre Adult Stem Cell Research, Eskitis Institute, Griffith University, Brisbane (2009)

School of Psychiatry, University of New South Wales, Sydney (2009)

Genomic Disorders Research Centre, University of Melbourne (2009)

Department of Pharmacology, University of Melbourne (2009)

Cognitive Science Forum, University of Melbourne (2009)

Department of Microbiology and Immunology, University of Melbourne (2009)
School of Medical Sciences, University of Sydney (2009)
Plenary Lecture, 14th Annual Symp., Ac. Unit Psychiatry of Old Age, Univ. Melbourne (2009)
Department of Anatomy and Cell Biology, University of Melbourne (2009)
Department of Pathology, University of Melbourne (2009)
Florey Neuroscience Institutes Annual Neuroscience Symposium, Melbourne (2009)
Invited Lecturer, Aust. Soc. for Medical Research (ASMR) National Sci. Congress, Hobart (2009)
Symposium Speaker, Australasian Society for Psychiatric Research Meeting, Canberra (2009)
International Brain Res. Org. (IBRO)/ANS Symp., ANS/AuPS Annual Meeting, Sydney (2010)
Plenary Lecture, 2010 Neuroscience Colloquium hosted by JCSMR (ANU), Kioloa, NSW (2010)
School of Biomedical Sciences, University of Queensland, Brisbane (2010)
Illawarra Health and Medical Research Institute, University of Wollongong, NSW (2010)
Animal Models Symposium, 11th Biennial Australasian Schizophrenia Conference, Sydney (2010)
Keynote Speaker, BioAutism, Melbourne (2011)
Plenary Lecture, Acad. Unit Old Age Psychiatry, Univ. Melb., 16th Ann. Symp., Melbourne (2011)
Cognitive Neuroscience Mini-Symposium, University of Melbourne (2011)
Department of Physiology, Monash University, Melbourne (2011)
School of Medical Sciences Seminar Series, University of New South Wales, Sydney (2011)
Department of Medicine, Royal Melbourne Hospital, University of Melbourne (2012)
6th Alzheimer's Disease & Parkinson's Disease (A&PD) Annual Meeting, Sydney (2012)
4th Brain Plasticity Symposium, Queensland Brain Institute, University of Queensland (2012)
Human Genetics Society of Australasia (HGSA) Neurogenetics Symposium, Adelaide (2012)
Invited Speaker, 7th World Congress for NeuroRehabilitation, Melbourne (2012)
Australasian Soc. Clin. Exp. Pharmacol. & Toxicol. (ASCEPT) Ann. Sci. Meeting, Sydney (2012)
NeuRA, UNSW, Sydney (2013)
School of Medicine, University of Western Sydney (2013)
Animal Behaviour Seminar, Animal Research Review Panel of NSW Government, Sydney (2013)
Research Seminar and Public Lecture, Menzies Institute, University of Tasmania, Hobart (2013)
Collaborators Day (Rush, Gibbons, Blessing festschrift), Centre for Neuroscience, Adelaide (2013)
5th Protein Misfolding and Neurological Disorders Meeting, Heron Island, Queensland (2013)
Optimising Health Environments Forum, Melbourne (2013)
Symposium on 'Neural prostheses', The Bionics Institute of Australia, Melbourne (2013)
3rd Annual Biological Psychiatry Australia (BPA) Scientific Meeting, Brisbane, Queensland (2013)
School of Psychological Science, La Trobe University, Melbourne (2014)
Monash Clinical Imaging Neuroscience, Monash Biomedical Imaging, Monash University (2014)
Invited Lecturer, European Molecular Biology (EMBL) PhD Course, ANU, Canberra (2014)
Leaders in Science Seminar, Garvan Institute of Medical Research, Sydney (2014)
Invited Speaker, 12th Int. Conf. on Cognitive Neuroscience (ICON) satellite, Newcastle (2014)
Symposium Speaker, 12th International Conf. on Cognitive Neuroscience (ICON), Brisbane (2014)
Invited Keynote Speaker, Society for Mental Health Research (SMHR), Adelaide (2014)
Invited Speaker, SMHR Symposium, 'Lifestyle approaches to mental health', Adelaide (2014)
Stroke Division Seminar Series, Melbourne Brain Centre, Austin Campus (2014)
Invited Keynote Speaker, National Huntington's Conference, UWA, Perth (2014)
Invited Plenary Speaker, 'Kioloa at Newcastle' Neuroscience Meeting, Newcastle (2015)
Invited Speaker, 9th A&PD Annual Meeting, Queensland Brain Institute, Univ. Queensland (2015)
Symposium Speaker, Int. Soc. for Neurochemistry (ISN) / ANS Joint Meeting, Cairns (2015)
Invited Speaker, Frontiers in Neurodevelopmental Disorders (FiND), Sydney (2015)
JCSMR Seminar Series, John Curtin School of Medical Research, ANU, Canberra (2015)
Department of Medicine, University of Melbourne, Austin Campus, Melbourne (2015)
National Prader Willi Syndrome Conference, Melbourne (2015)
Department of Pathology, University of Melbourne, (2015)
Dean's Seminar Series (monthly), Monash University (2015)
Invited Symposium Speaker, Society for Mental Health Research (SMHR) Conf., Brisbane (2015)

Invited Symposium Speaker, 5th Int. Congr. Neurol. & Epidemiol. (ICNE), Gold Coast (2015)
Neurodegeneration Seminar Series, Melbourne Brain Centre, Parkville (2016)
Invited Symposium Speaker, DOHaD ANZ Congress, Adelaide (2016)
Monash Institute for Pharmaceutical Sciences (MIPS) Seminar Series, Monash University (2016)
Invited Speaker, ANZCCART Conference, Melbourne (2016)
Strategic Planning Workshop, Centre for Excellence on Twin Research, Melbourne (2016)

Invited International Seminars (past 10 years only)

MassGeneral Inst. for Neurodegenerative Diseases, Harvard University Med. School, USA (2005)
International Society for Neurochemistry lecture, ISN/ESN Meeting, Innsbruck, Austria (2005)
Institute of Cell Biology and Anatomy, University of Lausanne, Switzerland (2005)
Centre for Brain Repair, University of Cambridge, UK (2006)
HighQ Foundation Workshop on Huntington's disease (participant), Cambridge, UK (2006)
Department of Physiology, Anatomy and Genetics, University of Oxford, UK (2006)
National Institute for Medical Research, Mill Hill, London, UK (2006)
Department of Psychology, University of York (2006)
Invited Symposium Speaker, Japan Neuroscience Society meeting, Kyoto, Japan (2006)
Invited Speaker, China-India-Japan-Korea-Australia NBNI meeting, Kyoto, Japan (2006)
University of Tokyo, Japan (2006)
IBRO Neuroscience School, Mumbai, India (2006)
School of Medical Sciences, University of Otago, New Zealand (2007)
World Congress on Huntington's Disease (invited oral), Dresden, Germany (2007)
CNRS, University of Poitiers, Poitiers, France (2007)
Department of Physiology, Anatomy and Genetics, University of Oxford, UK (2007)
Videoconference seminar to national meeting of Huntington Society of Canada (2008)
4th International Neuroacanthocytosis Symposium, London/Oxford, UK (2008)
Regenerative Medicine, Pfizer, Cambridge, UK (2009)
Department of Experimental Psychology, University of Cambridge, UK (2009)
Department of Experimental Psychology, University of Oxford, UK (2009)
European COST Meeting on neurodegeneration and regeneration, Antwerp, Belgium (2009)
Institute of Neuroscience and Physiology at Sahlgrenska Academy, Göteborg, Sweden (2009)
Workshop Lecture, 4th Eur. Soc. for Neurochemistry (ESN) Conference, Leipzig, Germany (2009)
Plenary Lecture, Australasia Winter Conference Brain Research, Queenstown, New Zealand (2009)
Faculty of Medicine, University of Lund, Sweden (2010)
Department of Experimental Psychology, University of Oxford, UK (2010)
Cambridge Institute for Medical Research, University of Cambridge, UK (2010)
Department of Physiology, University of Otago, New Zealand (2010)
Young Investigator Colloquium Speaker, 9th Meeting of APSN, Phuket, Thailand (2010)
Invited Workshop Participant, CHDI Workshop, Exercise-Drug Synergy, New York, USA (2011)
Johns Hopkins University, Baltimore, USA (2011)
Symposium Speaker, Int. Soc. Neurochemistry (ISN) 23rd Biennial Meeting, Athens, Greece (2011)
World Congress on Huntington's Disease, Melbourne (2011)
Symposium Speaker, IBRO World Congress of Neuroscience, Florence, Italy (2011)
Symposium Speaker (Colin Blakemore Festschrift), Physiology 2011, Oxford, UK (2011)
Plenary Lecture, NZ Stroke & Appl. Neurosci. Conf. (NZSANC), Auckland, New Zealand (2011)
Invited Speaker, 3rd Schizophrenia International Res. Soc. (SIRS) Conf., Florence, Italy (2012)
Scripps Research Institute, La Jolla, California, USA (2012)
Invited Speaker, Cognitive Enhancers: 22nd Neuropharmacology Conference, Official Satellite to the Annual Meeting of the Society for Neuroscience, New Orleans, USA (2012)
Nanosymposium Speaker, Huntington's Disease Animal Models Session, Annual Meeting of the Society for Neuroscience, New Orleans, USA (2012)

Invited Speaker, 2nd International Congress on Neurology and Epidemiology, Nice, France (2012)
Centres for Neuroregeneration and Clinical Brain Sciences, University of Edinburgh, UK (2012)
Invited Speaker, CAG Triplet Repeat Disorders Gordon Res. Conf., Waterville Valley, USA (2013)
Invited Speaker, 2nd Annual MIND Symposium, 'Molecular Mechanisms of Neurodegeneration',
MassGen. Inst. for Neurodegen. Dis. (MIND), MGH, Harvard University, Boston, USA (2013)
Integrative Center for Learning and Memory, Brain Research Institute, UCLA, USA (2014)
Invited Symposium Introduction and Discussant, 37th Ann. RSA Scientific Meeting and 17th
Congress of ISBRA, Bellevue, Washington, USA (2014)
Invited Speaker, Neurological Disorders Summit, San Francisco, USA (2015)
Keynote Speaker, Neuroplasticity Symposium, University of Auckland, New Zealand (2015)
Invited Speaker, Psychiatry and Behavioral Sciences, Stanford University, USA (2015)
Invited Speaker, Cognition & MS: Inflammation & Neuroplasticity, Tel Aviv, Israel (2016)
Invited Speaker, Epigenetics and Stress, Neurobiology of Stress Workshop, Newport, USA (2016)
Invited Speaker, 2nd Neurological Disorders Summit, Baltimore, USA (2016)
Invited Speaker, ICM-Florey Symposium, Brain & Spine Institute, Paris, France (2016)
Department of Physiology, Anatomy and Genetics, University of Oxford, UK (2016)
Evelyn F. McKnight Brain Institute, University of Alabama at Birmingham, USA (2016)
Department of Neurobiology, University of Chicago, USA (2016)

LEADERSHIP AND SERVICE

Chairing and Organisation of Symposia and Meetings (past 10 years only)

Local Organising Committee member for the Huntington's Disease Satellite Meeting to the 11th
International Congress of Human Genetics, Gold Coast (2006)
Local Organising Committee member and co-organiser of successful bid IBRO World Congress of
Neuroscience, Melbourne (2007)
Co-organiser of IBRO Neuroscience School, Melbourne (2007)
Co-organiser (with A/Prof. M. Delatycki) of the Huntington's Disease and Other CAG Repeat
Disorders Satellite Meeting, following the IBRO World Congress of Neuroscience (2007)
Chair, Oral Session on Schizophrenia, Australian Society for Neuroscience (ANS) Annual Meeting,
Canberra (2009)
Chair, Oral Session on Alzheimer's Disease, Australian Society for Neuroscience (ANS) /
Australian Physiological Society (AuPS) Joint Annual Meeting, Sydney (2010)
Local Organising Committee Member, Melbourne Brain Symposium: Neural Plasticity in Healthy
and Disease, Melbourne (2010)
Local Organising Committee Member for the 2011 World Congress on Huntington's Disease,
Melbourne (2008-2011)
Local Organising Committee Member for Frontiers in Neurogenetics & Brain Imaging, a satellite to
the World Congress on Huntington's Disease, Melbourne (2011)
Chair and Proposer, Symposium at 8th IBRO World Congress of Neuroscience, Florence (2011)
Symposium Co-Chair, International Society for Neurochemistry 23rd Biennial Meeting, Athens,
Greece (2011)
Invited Chair and Poster Judge, CAG Triplet Repeat Disorders Gordon Research Conference,
Lucca, Italy (2011)
Session Co-Chair, Plenary Lecture, Inaugural New Zealand Stroke & Applied Neurosciences
Conference (NZSANC), Auckland, New Zealand (2011)
Oral Session Chair, 7th World Congress for NeuroRehabilitation, Melbourne (2012)
Chair, Oral Session on Models of Cognition, Australian Society for Neuroscience (ANS) Annual
Meeting, Gold Coast (2012)
Session Chair, Alzheimer's Disease Parkinson's Disease (ADPD) Annual Meeting, Sydney (2012)

Scientific Advisory Committee Member and Chair, Oral Free Communications, 2nd International Congress on Neurology and Epidemiology, Nice, France (2012)
Local Organising Committee Member and Session Co-Chair, BioAutism 2013, a satellite to the Australian Neuroscience Society Meeting, Melbourne (2013)
Chair, Local Organising Committee for Huntington's Disease and other Tandem Repeat Disorders, a satellite to the Australian Neuroscience Society Meeting, Melbourne (2013)
Scientific Committee, International Conference on Cognitive Neuroscience (ICON XII, 2014)
Session Chair, BioAutism 2013 (ANS Satellite), Melbourne (2013)
Session Chair, Huntington's Disease and other Tandem Repeat Disorders, Melbourne (2013)
Session Chair, 1st Asia-Pacific Molecular and Cellular Cognition Society (MCCS) Meeting, Melbourne (2013)
Poster Judge, CAG Triplet Repeat Disorders Gordon Res. Conf., Waterville Valley, USA (2013)
Scientific Advisory Committee Member, 3rd International Congress on Neurology and Epidemiology (ICNE), Abu Dhabi, UAE (2013)
Poster Judge, 3rd Annual Biological Psychiatry Australia (BPA) Scientific Meeting, Brisbane, Queensland (2013)
Scientific Committee Member, 12th International Conference on Cognitive Neuroscience (ICON), Brisbane (2014)
Scientific Committee Member, 4th International Congress on Neurology and Epidemiology (ICNE), Kuala Lumpur, Malaysia (2014)
Invited Symposium Co-Chair, 37th Annual RSA and 17th Congress of ISBRA, Bellevue, Washington, USA (2014)
Local Organising Committee Member and Co-Proposer, Frontiers in Neurodevelopmental Disorders (FiND), Sydney (2015)
Symposium Organiser and Co-Chair, 'Nucleotide repeat sequences in neurodegeneration', International Society for Neurochemistry (ISN) / APSN / ANS Joint Meeting, Cairns (2015)
Scientific Committee Member, 5th International Congress on Neurology and Epidemiology (ICNE), Gold Coast (2015)
Invited Chairing of Sessions, 5th International Congress on Neurology and Epidemiology (ICNE), Gold Coast (2015)
Invited Session Chair, 'Biological Psychiatry', Society for Mental Health Research (SMHR) Conference, Brisbane (2015)

Postdoctoral Supervision and Mentoring (Florey Institute, University of Melbourne)

Dr Jess Nithianantharajah (2004-2008; completed a second postdoc at Cambridge/Edinburgh, won a Future Fellowship after returning to the Florey in 2014)
Dr Caitlin McOmish (2004-2008; NHMRC CJ Martin Research Fellow, completed postdoctoral fellowship at Columbia University)
Dr Laura Gray (2006-2008; followed by second postdoc at NUS-Duke, Singapore, currently a Lecturer at Deakin University)
Dr Thibault Renoir (2008-present; won an INSERM-NHMRC Fellowship 2011 and an ARC DECRA Fellowship 2014-2016)
Dr Terence Pang (2008-present)
Dr Emma Burrows (2010-present; won Victoria Fellowship 2013 and an NHMRC-ARC Dementia Fellowship 2016-2019)
Dr Mark Ransome, NHMRC Doherty Research Fellow (2008-2014)
Dr Xu Hou, NHMRC Australia-China Postdoctoral Training Fellowship at the Institute of Neuroscience, Shanghai (2009-2014)
Dr Mari Kondo (2010-2011; completed a postdoc at Johns Hopkins University in 2015, currently at NeuRA, Sydney; won the 2015 UNSW Vice Chancellor's Postdoctoral Fellowship)

Dr Christina Mo (2014; NHMRC CJ Martin Research Fellow, currently a postdoctoral fellow at University of Chicago)

Other Institutional Roles

Howard Florey Institute / Department of Physiology seminar co-organiser (2003 - 2004), University of Melbourne

Howard Florey Institute scientific advisor on applications submitted via the University of Melbourne to the Australian Office of the Gene Technology Regulator (OGTR; 2005 - 2010)

Scientific Advisory Committee member for the Integrative Neuroscience Facility (INF), National Neuroscience Facility, Melbourne (2005 – 2008)

Convenor of the Neuroscience Seminar Series hosted by the Florey Neuroscience Institutes, Mental Health Research Institute, University of Melbourne and Neurosciences Victoria (2007 – 2011)

Neuroscience Seminar Committee member for seminars hosted by the Florey Institute of Neuroscience and Mental Health, Melbourne Neuroscience Institute, University of Melbourne (2011 – present)

Honorary Senior Research Fellow, National Ageing Research Institute (NARI), University of Melbourne (2008 – present)

Grant Assist and Fellowship Assist panels for NHMRC and ARC applications, Florey Institute of Neuroscience and Mental Health, University of Melbourne (2011 – present)

Poster Prize judge and Oral Prize judge, Students of Brain Research (SOBR) Annual Meeting (2012, 2013, 2015)

'Brain and Mind' Working Group for the 2013 Festival of Ideas, University of Melbourne (2013)

Oral Prize judge, MDHS Early Career Researcher Symposium, University of Melbourne (2015)

Editorial Roles

Editorial Board Member, *Neurobiology of Disease* (2015 – present)

Associate Editor, *Neuroscience Letters* (2013 – present)

Review Editor, *Frontiers in Neuropharmacology* (2012 - present)

Associate Editor (Founding Editorial Board), *Journal of Huntington's Disease* (2012 – present)

Scientific Review Associate, *European Journal of Neuroscience* (2008 – present)

Editorial Advisory Board Member, *CNS & Neurological Disorders - Drug Targets* (2009 - 2015)

Editorial Board Member, *Neuroepidemiology* (2007 - present)

Editorial Board Member, *Neural Plasticity* (2009 – present)

Invited Guest Editor, Special Issue on Gene-Environment Interactions in Neuropsychiatric Disorders, *Neurobiology of Disease* (2013).

Invited Guest Editor (with Drs A. Sale, L. Maffei and A. Guzzetta), Special Issue on Non-Invasive Strategies to Optimise Brain Plasticity, *Neural Plasticity* (2013).

Invited Guest Editor, Review Section on Adult Neurogenesis in the Healthy and Dysfunctional Brain. *Clinical and Experimental Pharmacology and Physiology* (2007).

Invited Book Editor, *Tandem Repeat Polymorphisms: Genetic Plasticity, Neural Diversity and Disease*, Landes Bioscience and Springer Science (2012)

Invited Book Editor (with Dr D. Hatters) Tandem Repeats in Genes, Proteins and Disease, invited book, chapters published in the *Methods in Molecular Biology* series (chapters available via Pubmed/Medline), Humana Press and Springer Science (2013)

Founding Expert Panel Member, Neurology Central, Future Science Group (2015 – present)

Contribution to National and International Committees and Grant Review Panels

Grant Review Panel (GRP) Committee Member for National Health and Medical Research Council (NHMRC) Project Grant reviews (2006 – 2008, 2010 - 2012)

Assigners Academy Member for NHMRC Project Grant reviews (2013 - 2016); In these and other non-GRP years I have served NHMRC as External Assessor on up to 6 grants

Australian Research Council (ARC) OzReader reviewing for Discovery Project Grants, Linkage Grants, Laureate Fellowships, Future Fellowships, DECRA's (2008 - present)

Inaugural Scientific Advisory Committee member, Addiction Neuroscience Network Australia (ANNA; 2002 - 2004)

External Scientific Reviewer, Neurotrauma Research Program Western Australia (2006 – 2007, 2013 - 2014)

Programme Assessment Committee (PAC) Member (2007 - 2011) and Biomedical Assessment Committee (BMAC) for New Zealand Health Research Council (HRC)

Inserm Expert invited to evaluate Inserm Laboratories and research proposals by the French National Institute of Health (2007 - 2012)

College of Experts Member, New Zealand Health Research Council (HRC; 2012 - present)

Invited International Referee to assess neuroscience program grants for French National Research Agency (2010 - present)

Biomedical Project Grant Assessment Committee (BMAC; Neuroscience) Member for New Zealand Health Research Council (HRC; 2014-2015)

State Representative for Victoria and Tasmania, National Association of Research Fellows (NARF; 2014 – present)

Member, National Committee for Brain and Mind, Australian Academy of Science (2014 – present)

Member, International Stress and Behavior Society (ISBS) Strategic Task Forces on Computational Neuroscience and Bioinformatics in Biological Psychiatry (2015 – present)

Member (Florey Representative), Working Committee, International Alliance for Translational Neuroscience (IATN), 4th Meeting on 9-10 October 2015 in Beijing (2015 – present)

Other Positions and Responsibilities

Departmental Neuroscience Seminar organiser (1999 – 2001), University Laboratory of Physiology, University of Oxford

Member of Information Technology and Library Committees (1999 – 2001), Elected Member of Governing Body (2000 – 2001), Wolfson College, University of Oxford

Consultant for Neuro Research Services, Dublin, Ireland (2007 - 2009)

Associated Member of the European Huntington's Disease Network (EHDN; 2007 – present)

Australian Neuroscience Society (ANS) Scientific Programme Advisory Group member for Annual Meeting of ANS (2008 - present)

Environmental Modifiers Working Group Member, European Huntington's Disease Network (EHDN; 2009 – present)

Invited Member of External Stakeholder Group for the 'Shaping Brains: Shaping Communities' project, The Benevolent Society (2010 – 2011)

Member of the Tissue Review Panel for the NSW Brain Bank Network Scientific Review Committee (2012 – present)

Founding Scientific Advisory Panel Member of the Prader-Willi Research Foundation of Australia (2015 – present)

Peer review for international research bodies, including HRC (NZ), MRC (UK), Wellcome Trust (UK), BBSRC (UK), PD Society (UK), Swiss National Science Foundation, French National Inst. Health, NSERC (Canada), National Science Foundation (USA).

Frequent peer review of manuscripts for journals (e.g. *Nature Rev. Neurosci.*, *Mol. Psychiatry*, *J. Neurosci.*, *Brain*, *Cereb. Cortex*, *Nature Comm.*, *Sci. Transl. Med.*, *Hum. Mol. Genet.*, *Trends Neurosci.*, *Trends Cog. Sci.*, *Neurobiol. Biobehav. Rev.*, *Eur. J. Neurosci.*, *J. Neurochem.*, *Neuroscience*, *Transl. Psychiatry*, *Biol. Psychiatry*, *Neuropsychopharmacol.*, *Exp. Neurol.*, *Neurobiol. Dis.* and *PNAS*)

Professional Memberships

Australian Neuroscience Society (ANS; 1994 - present)
Australian Society for Medical Research (ASMR; 1994 - present)
Society for Neuroscience Society (SfN; 1997 - present)
British Neuroscience Association (BNA; 1997 - 2002)
National Association of Research Fellows of the NHMRC (NARF; 2002 – present)
Australian Society for Psychiatric Research (ASPR; 2003-2014) / Society for Mental Health Research (SMHR; 2015-present)
International Society for Neurochemistry (ISN; 2004 – present)
Huntington’s Research Group of Victoria (HRGV; 2005 – present)
European Huntington’s Disease Network (EHDN; 2007 – present)
Molecular and Cellular Cognition Society (MCCS; 2007 – present)
Biological Psychiatry Australia (BPA; 2010 – present)
Australian Society for Biochemistry and Molecular Biology (ASBMB; 2005 – present)

TEACHING AND LEARNING

Research Student Supervision (Universities of Oxford and Melbourne)

Undergraduate research students

Thomas Bailey (1999-2000; Oxford 1st Class Honours)
Richard Leszczynski (2000-2001; Oxford 2.1 Honours)
Andrew Ladweniac (2000-2001; Oxford 2.1 Honours)
William Stockley (2000-2001; Oxford 1st Class Honours)
Helen Grote (2001-2002; Oxford 1st Class Honours)
Terence Pang (2004, Melbourne 1st Class Honours)
Emma Burrows (2005, Melbourne 1st Class Honours, University Honours List)
Michelle Zajac (2005, Melbourne 1st Class Honours)
Charles Lang (2005, Melbourne 3rd year project)
Olivier Clement (2006, Melbourne, Masters Research Internship from France)
Nirosen Vijjaratnam (2006-2007, Melbourne, AMS Medical Student)
Xin Du (2008, Melbourne, co-supervised with Dr T. Pang, 1st Class Honours)
Yanting Choong (2008, co-supervised with Dr E. Burrows, Melbourne 2.1 Honours)
Elizabeth Manning (2009, co-supervised with Dr M. Ransome, Melbourne 1st Class Honours)
Grace Chan (2009-2010, Melbourne, co-supervised with Dr T. Renoir, AMS Medical Student)
Andrew Argyropoulos (2010, Melbourne, co-supervised with Dr T. Renoir, 1st Class Honours)
Lynn Koyama (2010, Melbourne, co-supervised with Drs E. Burrows, E. Hill, 1st Class Honours)
Yoshiko Shikano (2010-2011, Melbourne, co-supervised with Dr T. Renoir, AMS Med. Student)
William Catchlove (2011, Melbourne, co-supervised with Dr T. Pang)
Liliana Laskaris (2013, Melbourne, co-supervised with Dr E. Burrows, Honours Student)
Uyen Vo (2013, Melbourne, co-supervised with Dr T. Renoir, Honours Student)
Alexander Eastwood (2014, Melbourne, co-supervised with Dr E. Burrows, Honours Student; The Victorian Rhodes Scholar 2014, accepted in Oxford Neuroscience Masters programme 2015-)
Ariel Zeleznikow-Johnston (2014, Melbourne, co-supervised with Dr T. Renoir, Honours Student)
Carlos May (2014-2015, Melbourne, co-supervised with Dr E. Burrows, Honours Student)
Ellen Cullity (2015, Melbourne, co-supervised with Dr T. Renoir, Honours Student)
Jacky Guo (2016, Melbourne, co-supervising with Dr T. Pang, Honours Student)
Rachel Powell (2016, Melbourne, co-supervising with Dr T. Pang, Honours Student)

Postgraduate research students

- Anton van Dellen (Oxford D.Phil., Rhodes Scholar, 1997-2001; Recipient of the Royal College of Physicians Graham Bull Prize in Clinical Science 2001)
- Nektarios Mazarakis (Oxford D.Phil., McDonnell-Pew Scholar, 1999-2003)
- Tara Spires (Oxford M.Sc. in Neuroscience; D.Phil., British Marshall Scholar and US NSF Fellow, 1999-2003; Recipient of Peter Beaconsfield Prize in Physiological Sciences, 2003; Assistant Professor at MGH, Harvard Medical School; currently on Faculty at Edinburgh University)
- Neel Varshney (Oxford M.Sc. in Neuroscience, Rhodes Scholar, 2000-2001)
- Helen Grote (Oxford D.Phil., Research project based at HFI in Melbourne, 2002-2006)
- Caitlin McOmish (Ph.D., Melbourne, Australia Trust Scholar, 2003-2007; NHMRC CJ Martin Fellow, 2010-2015, with Prof. Jay Gingrich at Columbia University)
- Terence Pang (Ph.D., Melbourne University International Research Scholar, 2005-2008; currently a Research Officer in my laboratory)
- Emma Burrows (Ph.D., APA Scholar, 2006-2010; Victoria Fellowship 2013; NHMRC-ARC Dementia Research Development Fellowship, 2016-2019)
- Michelle Zajac (Ph.D., Melbourne Research Scholar, 2006-2010)
- Megan Dowie (Ph.D., co-supervised with Profs Glass and Faull, Univ. Auckland, 2005-2009; currently a postdoc at University of Oxford)
- Mari Kondo (Ph.D., Melbourne Research Scholar, 2005-2010; currently a postdoc with Prof. Akira Sawa at Johns Hopkins University)
- Chris Barkus (Nottingham M.Sc. in Neuroscience, Universitas 21 Exchange student, 2005-2006; currently a postdoc at University of Oxford)
- Xin Du (Ph.D., Melbourne Research Scholar, co-supervised with Dr Terence Pang, 2009-2013)
- Christina Mo, APA PhD Scholar, Univ. Melbourne (co-supervised with Dr T. Renoir, 2010-2014; MDHS Dean's Awardee for Excellence in a PhD Thesis 2015; NHMRC CJ Martin Fellowship with Prof. Murray Sherman at University of Chicago)
- Annabel Short, APA PhD Scholar, Univ. Melbourne (co-supervised with Dr T. Pang, 2011-)
- Dean Wright, APA PhD Scholar, Univ. Melbourne (co-supervised with Dr L. Gray, T. Renoir, 2012-)
- Faith Lamont, Univ. Melbourne (co-supervised with Dr E. Burrows, 2013-)
- Andrew Argyropoulos, Univ. Melbourne (M.Phil. co-supervised with Dr E. Hill, Prof. T. O'Brien)
- Jake Rogers, MIRS/MIFRS PhD Scholar, Univ. Melbourne (co-supervised with Dr T. Renoir, 2013-)
- Shlomo Yeshurun, MIRS/MIFRS PhD Scholar, Univ. Melbourne (co-supervised with Dr T. Pang 2013-)
- Nagaraj Moily, MIRS/MIFRS PhD Scholar, Univ. Melbourne (co-supervised with Drs D. Hatters and K. Holt, 2013-)
- Rebecca Norris, APA PhD Scholar, Univ. Melbourne (co-supervised with Dr J. Nithianantharjah, 2014-)
- Katie Fennell, Masters Student, Univ. Melbourne (co-supervised with Dr T. Pang, 2014-)
- Ariel Zeleznikow-Johnston, APA Scholar, Univ. Melbourne (co-supervised with Drs T. Renoir, E. Burrows, 2015-)
- Amy Shepherd, APA Scholar, Univ. Melbourne (co-supervised with Dr E. Burrows, 2015-)
- Andreas Halman, Visiting Masters Student, enrolled in Tallinn University, Estonia (2014-2015; MIRS/MIFRS PhD Scholar, Univ. Melbourne (co-supervised with Dr T. Pang, 2016-)
- Carlos May, APA Scholar, Univ. Melbourne (co-supervised with Dr E. Burrows, 2016-)
- Farheen Farzana, MIRS/MIFRS PhD Scholar, Univ. Melbourne (co-supervised with Dr T. Renoir, 2016-)
- Geraldine Kong, MIRS/MIFRS PhD Scholar, Univ. Melbourne (co-supervised with Dr T. Renoir, 2016-)

PhD Student Advisory Committee Member (University of Melbourne)

Elizabeth Manning (Department of Anatomy and Neuroscience)
Adel Barakat (Department of Pathology)
Nastasia Lim (Department of Pathology)
Rose Chesworth (Department of Anatomy and Neuroscience)
Alec Dick (Department of Anatomy and Neuroscience)
Anna Schroder (Department of Pharmacology)
Helena Bujalka (Department of Anatomy and Neuroscience)
Isabel Zbukvic (Florey Department of Neuroscience and Mental Health)
Michael Notaras (Florey Department of Neuroscience and Mental Health)
Mouna Haidar (Florey Department of Neuroscience and Mental Health)
Maryam Moslehi (Bio21 Institute, Department of Biochemistry and Molecular Biology)
Sunyuan Zhang (Bio21 Institute, Department of Biochemistry and Molecular Biology)
Autumn Bricker (Bio21 Institute, Department of Biochemistry and Molecular Biology)
Adrienne Grech (Florey Department of Neuroscience and Mental Health)
Andrew Micallef (Florey Department of Neuroscience and Mental Health)
Victoria McLeod (Florey Department of Neuroscience and Mental Health)

Teaching

University of Oxford

Neuroscience lectures for undergraduates, M.Sc. in Neuroscience postgraduates (2000–2002)
Neuroscience tutorials for Medical and Physiology undergraduates (1998–2002)
Demonstrator for Medical/Physiological Sciences undergraduate practical classes (1998-2000)

University of Melbourne

Lecturing in ‘Structure and Function of the Brain’, Dept of Anatomy & Cell Biology (2003-present)
Tutoring/Mentoring of Department of Physiology Neuroscience undergraduates (2003-2010)
Lecturing in ‘Learning and Memory’, Medical and Physiotherapy undergraduates (2004-present)
Lecturing in Neuroscience, Physiotherapy Masters students (2008, 2010)
Postgraduate lecturer in Centre for Neuroscience seminar series (2006-2007)
Lecturer and Discussant in ‘PhD Course in Neuroscience’ (2010-present)
Literature Review marker in ‘PhD Course in Neuroscience’ (2013)

Other Teaching

Lecturer in the Australian Course in Advanced Neuroscience (ACAN) for postgraduate and postdoctoral neuroscientists, Stradbroke Island, Queensland (2005, 2013)
Lecturer in 8th IBRO School on Neuroscience (for postgraduate and postdoctoral scientists), Tata Institute of Fundamental Research, Mumbai, India (2006)
Instructor in the Behavioural Neuroscience course, IBRO Neuroscience School, Melbourne (2007)
Faculty for IBRO/Society for Neurosci. Workshop on Neurodegen. Diseases, Melbourne (2007)

ENGAGEMENT

I have frequently given talks to public audiences (including Rotary, Probus, University of the 3rd Age, Lyceum Club), and interviews to print (e.g. The Age, Australian) and electronic media (e.g. Catalyst, ABC TV; The Science Show, ABC Radio National), as well as writing for a public audience

(Australasian Science, The Conversation). For example, in the past 2 years I have given public lectures for Royal Institution Australia (RiAus) and Brain Awareness Week (BAW) in rural Victoria (Horsham, Casterton, Shepparton and Wadonga) and BAW talks to high school students. I have also given talks to staff/members of Giant Steps (Autism charity), Huntington's Victoria and other charitable organisations (details below) and given an invited TEDx talk.

Science Communication, Outreach and Community Engagement

Brain research public talks to community groups including Rotary, Probus, Lyceum Club, University of the Third Age, Foresight's Global Coaching Annual Meeting (2002 – present)
Feature article for the science magazine Australasian Science, 'Use it or lose it' (2004)
Interviewed by Dr Robin Williams, The Science Show, Radio National (ABC), about new papers on Huntington's disease and mental/physical activity effects on the brain (2000, 2004)
Other interviews communicating research findings for print and electronic media, including The Age, Sydney Morning Herald, The Australian, Herald Sun, Radio (ABC), ABC TV (7.30 Report), Australian Commercial Network TV (2004 - present)
Representative of the Australian Neuroscience Society (ANS) at Science Meets Parliament, Parliament House, Canberra (2006)
Brain Awareness Week, Neuroscience talk to senior high school students in Melbourne (2009)
Invited public seminars in Victorian for Royal Institution Australia (RiAus) Free Range Science programme (2010 – 2011)
Interview for The Age and Sydney Morning Herald: <http://www.smh.com.au/national/puzzle-solution-mental-pushups-ward-off-brain-drain-20101105-17hiq.html> (2010)
Staff Writer for HDBuzz, an interactive website presenting Huntington's Disease research news to the lay community (2011 – present; <http://en.hdbuzz.net/>)
Invited Benalla Dementia Seminar organised by Alzheimer's Victoria / Australia (2011)
Huntington's Victoria HD Family Day, Melbourne (2013-2015)
Interview for special series on medical research in the Herald Sun, Melbourne, 'Gene-environment interactions in brain disease' (2013)
Lecture to lay audience, 'Nature, nurture and neuroscience: Understanding Autism spectrum disorder to identify targets for new treatments' and visit to Giant Steps school (Sydney) for Autism (2013)
Lecture to Global Foresight Coaching annual conference, Melbourne (2013)
Invited Guest with Sir Gus Nossal and others at 'Breakfast with the Scientists', at Gene Technology Access Centre (GTAC), Melbourne
Invited article for The Conversation, 'Explainer: nature, nurture and neuroplasticity': <http://theconversation.com/explainer-nature-nurture-and-neuroplasticity-10734> (2013)
Invited commentary for The Conversation, 'Giving birth to new insights into brain development and disease', with my postdoc Dr Thibault Renoir: <http://theconversation.com/giving-birth-to-new-insights-into-brain-development-and-disease-19159> (2013)
ABC Radio live interview on 'Exercise and Mental Health': <https://www.youtube.com/watch?v=LqrfQ-6-zE> (2014)
Invited commentary for The Conversation, 'Mind over matter: Cynics, it seems, triple their risk of dementia': <http://theconversation.com/mind-over-matter-cynics-it-seems-triple-their-risk-of-dementia-27337> (2014)
Invited article for The Conversation, 'Health Check: four key ways to improve your brain health': <https://theconversation.com/health-check-four-key-ways-to-improve-your-brain-health-36127> (2015)
Consultant for 2nd series of Redesign My Brain, ABC and Discovery Channel co-production (2014-2015)
Invited Public Lecture, 'Brain Plasticity in Health and Disease', to University of the Third Age (U3A), Monash Campus Mornington Peninsula, Victoria (2015)
Interview and research featured in book, The Brain's Way of Healing, Norman Doidge (2015)

Invited Speaker on a 'New Science of Aging and Wellness' Panel with Prof. Leroy Hood (Director, Institute of Systems Biology, Seattle), Consilium conference, Gold Coast (2015)

Radio Interview on 'Neuroplasticity and its role in Mental Health' for Up Close (online audio talk show), University of Melbourne: <http://upclose.unimelb.edu.au/episode/344-brain-ever-changing-neuroplasticity-and-its-role-mental-health> (2015)

Panellist at public forum on neuroplasticity, featuring Norman Doidge, Melb. Town Hall (2015)

Invited Public Lecture, 'Nature, Nurture and Neurology: Brain Plasticity in Health and Disease', Melbourne University Health Initiative: <https://www.facebook.com/events/1211284535566738/>

Invited Speaker at 'Understanding Autism' Public Forum, Melbourne Neuroscience Institute, University of Melbourne

Interviewed for an episode of Catalyst, ABC TV, filmed at the Florey Institute: <http://www.abc.net.au/catalyst/stories/4198637.htm> (2015)

Invited TEDx Talk: <http://tedxnorthernsydneyinstitute.com/speaker/anthony-hannan/> (2015)

PUBLICATIONS

1. **Hannan, A.J.** (1995) Trinucleotide-repeat expansions and neurodegenerative diseases. *Trends in Neurosciences* 18: 441.
2. **Hannan, A.J.**, Schevzov, G., Jeffrey, P.L., Gunning, P. and Weinberger, R.P. (1995) Intracellular localization of tropomyosin mRNA and protein is associated with development of neuronal polarity. *Molecular and Cellular Neuroscience* 6: 397-412. [>50 cites]
3. **Hannan, A.J.**, Henke, R.C, Weinberger, R.P. and Jeffrey, P.L. (1996) Differential induction and intracellular localization of SCG10 messenger RNA is associated with neuronal differentiation. *Neuroscience* 72: 889-900. [>20 cites]
4. **Hannan, A.J.** (1996) Trinucleotide-repeat expansions and neurodegenerative disease: a mechanism of pathogenesis. *Clinical and Experimental Pharmacology and Physiology* 23: 1015-1020.
5. **Hannan, A.J.** (1997) Trinucleotide-repeat expansion diseases. *Trends in Neurosciences* 20: 349.
6. **Hannan, A.J.**, Kind, P. and Blakemore, C. (1998) Phospholipase C- β 1 expression correlates with neuronal differentiation and synaptic plasticity in rat somatosensory cortex. *Neuropharmacology* 37: 593-605. [>30 cites]
7. **Hannan, A.J.**, Jeffrey, P.L., Gunning, P. and Weinberger, R.P. (1998) Structural compartments within neurons: developmentally regulated organization of microfilament isoform mRNA and proteins. *Molecular and Cellular Neuroscience* 11: 289-304. [>50 cites]
8. **Hannan, A.J.**, Henke, R.C., Seeto, G.S., Capes-Davis, A., Dunn, J. and Jeffrey, P.L. (1999) Expression of doublecortin correlates with neuronal migration and pattern formation in diverse regions of the developing chick brain. *Journal of Neuroscience Research* 55: 650-657. [>25 cites]
9. **Hannan, A.J.**, Servotte, S., Katsnelson, A., Sisodiya, S., Blakemore, C., Squier, M. and Molnar, Z. (1999) Characterization of nodular neuronal heterotopia in children. *Brain* 122: 219-238. [>120 cites]
10. Van Dellen, A., Blakemore, C., Deacon, R., York, D. and **Hannan, A.J.** (2000) Delaying the onset of Huntington's in mice. *Nature* 404: 721-722. [>350 cites]
11. Jeffrey, P.L., Capes-Davis, A., Dunn, J., Seeto, G.S., **Hannan, A.J.** and Lin, S.L. (2000) CROC-4, a novel brain-specific transcriptional activator of c-fos expressed from proliferation through to maturation of multiple neuronal cell types. *Molecular and Cellular Neuroscience* 16: 185-196. [>15 cites]
12. Van Dellen, A., Welch, J., Dixon, R.M., Cordery, P., Styles, P., York, D., Blakemore, C. and **Hannan, A.J.** (2000) N-acetylaspartate and DARPP-32 levels decrease in the corpus striatum of Huntington's disease mice. *Neuroreport* 11: 3751-3757. [>75 cites]

13. Molnar, Z. and **Hannan, A.J.** (2000) Development of thalamocortical projections in normal and mutant mice. *Results and Problems in Cell Differentiation* Vol. 30: Mouse Brain Development, pp 293-332. Eds: A.M. Goffinet and P. Rakic, Springer-Verlag, Heidelberg. [book chapter; >20 cites]
14. **Hannan, A.J.**, Blakemore, C., Katsnelson, A., Vitallis, T., Huber, K., Bear, M., Roder, J., Kim, D., Shin, H-S. and Kind, P.C. (2001) PLC- β 1, activated via mGluRs, mediates activity-dependent differentiation in the cerebral cortex. *Nature Neuroscience* 4: 282-288. [>170 cites]
15. Van Dellen, A., Blakemore, C., Deacon, R., York, D. and **Hannan, A.J.** (2001) Anterior cingulate cortex transplantation in Huntington's disease transgenic mice. *Brain Research Bulletin* 56: 313-318. [>40 cites]
16. **Hannan, A.J.** (2001) Neurodegenerative diseases. *IDrugs* 4: 6-8.
17. Hockly, E., Cordery, P.M., Woodman, B., Mahal, A., Van Dellen, A., Blakemore, C., Lewis, C.M., **Hannan, A.J.** and Bates, G.P. (2002) Environmental enrichment slows disease progression in R6/2 Huntington's disease mice. *Annals of Neurology* 51: 235-242. [>250 cites]
18. Spires, T.L., Grote, H.E., Varshney, N.K., Cordery, P.M., van Dellen, A., Ladwiniec, A., Blakemore, C. and **Hannan, A.J.** (2004) Environmental enrichment rescues protein deficits in a mouse model of Huntington's disease, indicating a possible disease mechanism. *Journal of Neuroscience* 24: 2270-2276. [>250 cites]
19. Spires, T.L., Grote, H.E., Varshney, N.K., Garry, S., Cordery, P.M., van Dellen, A., Blakemore, C. and **Hannan, A.J.** (2004) Dendritic spine pathology and deficits in experience-dependent dendritic plasticity in R6/1 Huntington's disease transgenic mice. *European Journal of Neuroscience* 19: 2799-2807. [>110 cites]
20. Cybulska-Klosowicz, A., Mazarakis, N.K., Van Dellen, A., Kossut, M., Blakemore, C., **Hannan, A.J.** and Kossut, M. (2004) Impaired learning-dependent cortical plasticity in Huntington's disease transgenic mice. *Neurobiology of Disease* 17:427-34. [>30 cites]
21. Glass, M., Van Dellen, A., Blakemore, C., **Hannan, A.J.** and Faull, R.L.M. (2004) Delayed onset of Huntington's disease in mice in an enriched environment correlates with delayed loss of cannabinoid CB1 receptors. *Neuroscience* 124: 207-212. [>110 cites]
22. Lazic, S.E., Grote, H., Armstrong, R.J.E., Blakemore, C., **Hannan, A.J.**, van Dellen, A. and Barker, R.A. (2004) Decreased hippocampal cell proliferation in R6/1 Huntington's mice. *Neuroreport* 15: 811-813. [>130 cites]
23. Van Dellen, A. and **Hannan, A.J.** (2004) Genetic and environmental factors in the pathogenesis of Huntington's disease. *Neurogenetics* 5: 9-17. [>30 cites]
24. **Hannan, A.J.** (2004) Molecular mediators, environmental modulators and experience-dependent synaptic dysfunction in Huntington's disease. *Acta Biochimica Polonica* 51: 415-430. [>15 cites]
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