
Addiction, Identity & Responsibility: Perspectives from Neuroscience, Social Science, Philosophy and Law

An Interdisciplinary Symposium

Tuesday 20th October 2009

Macquarie Graduate School of Management Conference Centre
Macquarie University
Amphitheatre Room 103
99 Talavera Road, North Ryde, Sydney
<http://www.hotel.mgsm.com.au/>

Convenors

Professor Jeanette Kennett (Macquarie University)
Associate Professor Neil Levy (University of Melbourne)
Dr Craig Fry (Murdoch Children's Research Institute and University of Melbourne)

Rationale And Purpose

Research in neuroscience and genetics is increasingly revealing the role of the brain in drug addiction, and the impact of drug use upon brain function, human decisions about drug use and related behaviour. Advances in this area potentially have widespread implications for public policy and the treatment of people who use drugs, and reinvigorates long-standing philosophical questions about free will, self-control, responsibility, identity and self understanding.

This one-day symposium is hosted by the Macquarie University Centre for Agency, Values and Ethics. It will bring together leading neuroscientists, social scientists, philosophers, legal scholars and others to discuss the implications of addiction neuroscience and related research for our understandings of and responses to drug addiction. The meeting aims to facilitate an interdisciplinary dialogue on the implications of addiction neuroscience for treatment, social policy, questions of responsibility, and self-understanding.

This event builds upon the successful 2008 Melbourne symposium, *Advances in Addiction Neuroscience: Policy, Treatment, Ethics and Self-Understanding*, which prompted an 'addiction neuroethics' theme issue of the new international journal *Neuroethics* (Springer), currently in preparation.

Contact

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Program

8:30-9:00 *Registration*

9:00-9:10 *Symposium overview*
Jeanette Kennett (Macquarie University)

9:10-9:25 *Opening Address*
Alex Wodak (St Vincent's Hospital, Sydney)

9:25-10:55 *Advances in addiction neuroscience*
Chair: MacDonald Christie (University of Sydney)
Speakers: Dan Lubman (University of Melbourne) – *Drug cues and natural reinforcers in opiate addiction.*
Iain McGregor (University of Sydney) – *Party drugs and the brain.*
Katy Jones / Nadia Solowij (University of Wollongong) – *Advances in understanding neural substrates in the association between cannabis and psychosis.*
Simon Killcross (University of NSW) – *The neurochemical basis of behavioural control in addiction.*

10:55-11:20 *Morning Tea*

11:20-12:40 *Addiction neuroscience: The view from philosophy*
Chair: Catriona Mackenzie (Macquarie University)
Speakers: Philip Gerrans (University of Adelaide) – *George Graham on rats, dopamine rewards and responsibility.*
Tziporah Kasachkoff (City University of New York) – *Drug use and public policy: A look at some arguments for restricting access to medical care to those who have avoided courting medical risk.*
Jeanette Kennett (Macquarie University) – *Addiction and the elements of self control.*

12:40-1:40 *Lunch*

1:40-3:00 *Policy, treatment and legal implications of addiction neuroscience*
Chair: Mianna Lotz (Macquarie University)
Speakers: David Hodgson (Supreme Court of NSW) – *Addiction, free will and criminal responsibility.*
Wayne Hall (University of QLD) – *How will addiction neuroscience affect addiction treatment and drug policy?*
Murat Yücel (University of Melbourne) – *A neuroscience perspective on addiction, free will and criminal responsibility.*

3:00-3:20 *Afternoon Tea*

3:20-4:50 *Addiction neuroscience and public and private understanding*
Chair: Craig Fry (University of Melbourne)
Speakers: Helen Keane (Australian National University) – *Variations in addiction: Neurochemistry and bad behaviour.*
Annie Madden (AIVL) – *How do drug users understand new addiction science?*
Adrian Carter (University of QLD) – *Neuroscientist and clinician perspectives on the use of neuroscience research on addiction.*
Joan Leach (University of QLD) – *Mixing addiction with science: media frames and emerging research.*

4:50-5:05 *Symposium Close*
Wayne Hall (University of QLD)

Chair and Speaker Biographies

Professor Jeanette Kennett (Macquarie University)

Jeanette joined Macquarie in 2009 as a CoRE joint appointment between the Philosophy Department and the Macquarie Centre for Cognitive Science. After completing her PhD in 1994 she spent a further ten years in the Philosophy Department at Monash as Lecturer/Senior Lecturer. From 2004 – 2008 she was Principal Research Fellow in The Centre for Applied Philosophy and Public Ethics at the Australian National University and also at Charles Sturt University (2008-9). Jeanette is concerned to assess the impact for philosophical accounts of moral and legal responsibility, of emerging data from the social and cognitive sciences on moral development and on the effects of various conditions, including brain damage, mental illness, and addiction, on moral reasoning and self-control.

Dr Alex Wodak (St Vincent's Hospital, Sydney)

Dr Alex Wodak has been Director of the Alcohol and Drug Service, St. Vincent's Hospital, Sydney, Australia since 1982. He has a major interest in prevention of HIV among injecting drug users, treatment of drug users, health aspects of prisons and drug policy reform. Dr Wodak is President of the Australian Drug Law Reform Foundation and was President of the International Harm Reduction Association (1996-2004). He helped establish the first needle syringe programme and the first medically supervised injecting centre in Australia (when both were pre-legal), and often works in developing countries on HIV control among injecting drug users.

Professor MacDonald Christie (Brain & Mind Research Institute, University of Sydney)

Professor Christie is a cellular and molecular neuropharmacologist. His research focuses on cellular and molecular mechanisms of opioid receptor signalling in neurons and synapses in pain pathways, the biological basis of adaptations producing chronic pain and drug dependence, and preclinical development of novel pain therapeutics. He has been at The University of Sydney since 1990 where he is currently Director of Neuropharmacology at the Brain & Mind Research Institute. He has been a NH&MRC Senior Principal Research Fellow since 2003 and is a Chief Investigator on a NH&MRC Program Grant to identify novel pain therapeutics based on conopeptides.

Associate Professor Dan Lubman (Orygen Youth Health Research Centre, University of Melbourne)

Dan Lubman heads a clinical research team focused on investigating substance use and comorbidity in youth. This includes a number of pharmacological and psychological treatment trials in psychosis and depression, as well as neuropsychological and neuroimaging studies examining the neurobiology of addiction. A particular research interest is exploring the impact of substance use on adolescent brain development. Dr Lubman has published over 80 peer-reviewed scientific papers and book chapters, and is Chair of the RANZCP Section of Addiction Psychiatry and an advisory board member of Addiction Neuroscience Network Australia, the National Cannabis Prevention and Information Centre, and the National Drug Research Institute.

Professor Iain McGregor (University of Sydney)

Iain S. McGregor is ARC Professorial Fellow, Professor of Psychopharmacology and Director of the Psychopharmacology Laboratory at the University of Sydney. Iain is one of Australia's foremost researchers in the fields of psychopharmacology and neuroscience with more than 130 peer reviewed publications to his name. His research focuses on the effects of drugs such as ecstasy, cannabis, methamphetamine and antidepressants on brain and behaviour and encompasses studies in both human subjects and laboratory animals. Iain is a much sought after speaker and has given numerous invited keynote addresses and presentations around the world. He also lectures extensively to psychology undergraduates and trainee clinical psychologists. Iain recently received a NHMRC Achievement Award from the Health Minister Nicola Roxon for his outstanding contributions to biomedical research.

Dr Katy Jones (University of Wollongong)

A post-doctoral research fellow at the University of Wollongong, Katy worked at Swansea University (UK) for 4 years where she attained her PhD in the effects of recreational ecstasy and cannabis use on sleep and cognition. She examined the effects of recreational ecstasy use on self-reported and measured sleep, on declarative and procedural memory deficits, and links between cannabis and creativity. Katy has published her findings in *Sleep and Hypnosis* (2007) and the *Journal of Psychoactive Drugs* (in press). Currently she is working with Dr Nadia Solowij investigating the effects of adolescent cannabis use on cognitive performance and impulsivity.

Dr Nadia Solowij (University of Wollongong)

A Senior Lecturer in the School of Psychology, University of Wollongong, Nadia spent 15 years at the National Drug and Alcohol Research Centre, establishing her primary area of expertise on the long term

cognitive effects of cannabis. She has used psychophysiological, neuropsychological and brain imaging techniques in her investigations and has over 70 scientific publications including her book *Cannabis and Cognitive Functioning* (Cambridge University Press, 1998; 2006). Her current research focuses on memory function in adult and adolescent cannabis users and people with schizophrenia and comorbid cannabis use, examining the neural substrates in the association between cannabis use and psychosis.

Professor Simon Killcross (University of NSW)

Prof Simon Killcross is Head of the School of Psychology, UNSW. Prof Killcross completed his undergraduate and PhD studies at the University of Cambridge, before taking up academic positions at the University of York and then Cardiff University. He has been awarded the UK Experimental Psychology Society Prize lecturer award, the British Psychological Society Spearman Medal, and the British Association for Psychopharmacology annual prize. From 2004-2008 he was Chairman of the UK Cross-council Brain Sciences committee and in 2004 he served as an Invited Reviewer for the UK Government Office of Science and Technology, Foresight Brain Science, Drugs and Addiction project.

Associate Professor Catriona Mackenzie (Macquarie University)

Catriona Mackenzie is Associate Professor in Philosophy at Macquarie University. Her research expertise spans moral and political philosophy, applied ethics, moral psychology, and feminist philosophy. As co-editor, her books include *Emotions, Imagination and Moral Reasoning* (Psychology Press, forthcoming), *Practical Identity and Narrative Agency* (Routledge, 2008) and *Relational Autonomy: Feminist Perspectives on Autonomy, Agency and the Social Self* (OUP, 2000). Her articles have appeared in a variety of edited collections and journals, including *Australasian Journal of Philosophy*, *Hypatia*, *Journal of Applied Philosophy*, *Journal of Social Philosophy* and *Philosophical Explorations*. She was awarded the 2007 Eureka Prize for Research in Ethics.

Associate Professor Philip Gerrans (University of Adelaide)

A/Prof Gerrans is Reader in the Philosophy Department at the University of Adelaide, and an Associate of the Swiss Centre for Affective Sciences. His main research interest is the use of psychological disorder to study the mind. He has written on developmental disorders (autism and Williams syndrome), cognitive neuropsychiatry, and moral psychopathologies and the emotions. Examples of recent work include:

- Neurosentimentalism and moral agency. *Mind* in press. (with Jeanette Kennett)
- Mad scientists or unreliable narrators? Dopamine Dysregulation and delusion. In M. Broome and L. Bortolotti (eds), *Psychiatry as Cognitive Neuroscience: Philosophical Perspectives, International Perspectives in Philosophy and Psychiatry series*, Oxford University Press. 2009.
- Imitation and Theory of Mind. In *Handbook of Neuroscience for the Behavioural Sciences*. John Caccioppo and Gary Bernston (eds) Chicago University of Chicago Press. 2009.

Professor Tziporah Kasachkoff (City University of New York)

Tziporah Kasachkoff is currently Professor Emerita at The Graduate School and University Center of The City University of New York and Associate Professor in the Department of Philosophy at Ben Gurion University of the Negev, Israel. Her research and teaching interests are in philosophy of law; theoretical and applied ethics with special emphasis on the ethics of health-care; moral psychology; and the improvement of the teaching of philosophy.

Hon Justice David Hodgson (Supreme Court of NSW)

David Hodgson is a Judge of Appeal of the Supreme Court of New South Wales, Australia, who is also deeply interested in philosophy. He has published two philosophical books through Oxford University Press (*Consequences of Utilitarianism* 1967 and *The Mind Matters* 1991), and many articles on philosophical topics including consciousness, probability and plausible reasoning. In recent years, his main philosophical interest has been free will.

Professor Wayne Hall (University of QLD)

Wayne Hall is an NHMRC Australia Fellow (2009-2013) and Professor of Public Health Policy in the School of Population Health, University of Queensland (since 2004). He was formerly Director of the National Drug and Alcohol Research Centre at UNSW (1994-2001) and Professor and Director of the Office of Public Policy and Ethics at the Institute for Molecular Bioscience at the University of Queensland (2001-2004). He has been an expert adviser to the World Health Organization on drug dependence since 1993, a member of the Australian National Council on Drugs (1998-2001) and Chairs the Drug Utilisation Subcommittee of the Pharmaceutical Benefits Advisory Committee. In 2003 he was identified by the Institute for Scientific Analysis as a highly cited author in the "social sciences general". He is currently researching the public health policy and ethical implications of genetic and neuroscience research on drug use and addiction.

Associate Professor Murat Yücel (University of Melbourne)

A/Prof Yücel holds a joint appointment as a Principal Research Fellow by the Melbourne Neuropsychiatry Centre and the Substance Use Research and Recovery Focused Program at ORYGEN Research Centre and The University of Melbourne. His work involves neurobiological and cognitive-affective neuroscience research into psychiatric disorders, as well as drug and alcohol abuse. A/Prof Yücel has professional training in clinical neuropsychology and has been working in the field of neuropsychiatry for a number of years. In 2008 A/Prof Murat Yücel was awarded a three year NHMRC Career Development Award to investigate the dysfunction in key brain networks: Implications for psychiatric and substance use disorders.

Dr Craig Fry (University of Melbourne)

Craig Fry is a Senior Research Fellow at the Children's Bioethics Centre, Murdoch Childrens Research Institute and Centre for Applied Philosophy & Public Ethics, University of Melbourne. His NHMRC Public Health Fellowship (2008-12) is examining how different models of identity and participation influence health research, practice and policy. Craig has an academic and practice background in psychology, public health and applied ethics. He received the 2003 Australian Museum Eureka Prize for ethics research. He is co-Editor of Health Promotion Journal of Australia, and Editorial Board member, International Journal of Drug Policy and Journal of Empirical Research on Human Research Ethics.

Dr Helen Keane (School of Humanities, Australian National University)

Helen Keane has been thinking and writing about addiction for longer than she cares to remember. She is the author of *What's Wrong with Addiction?* (2002) a critical analysis of contemporary understandings of addiction. She has published articles on harm reduction and human rights, addiction autobiography, intoxication and pleasure, masculinity and anabolic steroids, and ideals of recovery. More generally, she teaches and researches in the social and cultural studies of medicine and health. Her current project examines medical and popular debates about Attention Deficit Hyperactivity Disorder and their relationship to different models of childhood.

Ms Annie Madden (Australian Injecting and Illicit Drug Users' League)

Annie Madden is currently the Executive Officer of the Australian Injecting & Illicit Drug Users League (AIVL) which is the national peak organisation representing people who use illicit drugs and consumers of drug treatment services in Australia. She has been working in the areas of illicit drug use, BBVs, peer education and drug user representation for 20 years. She is currently undertaking a postgraduate law degree with a focus on human rights and international law.

Dr Adrian Carter (University of QLD)

Adrian Carter is a Post-doctoral Fellow at the School of Population Health, The University of Queensland investigating the way in which a neurobiological understanding of addiction affects how we think about and treat individuals with an addiction. In November 2008, he received travel awards from the *Society for Neuroscience* and the *Neuroethics Society* to present the results of his doctoral thesis in Washington, DC. Adrian has published widely in the area, including reports for the World Health Organization, the European Monitoring Centre for Drugs and Drug Addiction, and the Australian Ministerial Council on Drugs Strategy.

Dr Joan Leach (University of QLD)

Joan Leach, BA, BSc, PhD, convenes the Science Communication Postgraduate Program at the University of Queensland and is a director of the UQ Science/Knowledge Translation Group. She edits the quarterly international journal, *Social Epistemology*, and is editor of the forthcoming volume, *Rhetorical Questions of Health and Medicine* (Rowman & Littlefield, USA). Her research centers on knowledge mediation and public rhetoric about science, technology and medicine. She was awarded an inaugural Purdue (USA) Science Laureateship for her international efforts in science communication, public engagement, and work building a research infrastructure for science communication. She is writing a forthcoming monograph, *Valuing Communication about Science*, and has published internationally on modes of science popularization in the twentieth century.

Dr Mianna Lotz (Macquarie University)

Mianna Lotz is a Lecturer in Philosophy at Macquarie University. She joined in 2005 after holding teaching and research positions at Monash, Melbourne, La Trobe, and Auckland Universities. Mianna's research interests lie primarily in applied ethics, with a particular focus on biotechnology ethics, procreative ethics, children's rights and interests, and parental liberties and obligations. She is also interested in neuroethics and the social and policy implications of developments in neuroscience. She has published in journals such as *Bioethics* and *Journal of Social Philosophy*, as well as contributing to edited collections and general media publications. Mianna is a Deputy Chair of the Macquarie University Research Ethics Review Committee (Human Subjects).