

Archive

Previous speakers and topics in the PPIG seminar series

2017/2018

- 2018-05-15 **Presenter:** Professor Rob Rupert **Title:** Epistemic Value in the Subpersonal Vale
- 2018-03-14 **Presenter:** Erica Consentino (University of Bochum) **Title:** Self-control, mental time travel and the temporally extended self
- 2018-03-28 **Presenter:** Cristina Borgoni (University of Bayreuth) **Title:** Unendorsed Beliefs
- 2018-02-07 **Presenter:** Bart Geurts (University of Nijmegen) **Title:** Communication as commitment making
- 2018-02-28 **Presenter:** Liz Irvine (Cardiff University) **Title:** Semantics in the light of interaction
- 2018-01-24 **Presenter:** Joel Anderson (University of Utrecht) **Title:** The Extended Will
- 2017-12-15 **Presenter:** Rob Rupert (University of Colorado Boulder) **Title:** Naturalism Meets the New Anti-representationalism
- 2017-11-08 **Presenter:** Anika Fiebich (University of Milan) **Title:** Pluralism in Social Cognition
- 2017-11-22 **Presenter:** Richard Moore (Berlin School of Mind and Brain, Humboldt-Universität zu Berlin) **Title:** Non-Natural Pedagogy
- 2017-10-11 **Presenter:** Denis Buehler (University of Antwerp) **Title:** The varieties of human agency
- 2017-10-25 **Presenter:** Luca Barlassina (University of Sheffield) **Title:** More of me! Less of me! Reflexive imperativism about affective phenomenal character
- 2017-09-27 **Presenter:** Alisa Mandrigin (University of Warwick) **Title:** The scope of spatial illusions: Rethinking the rubber hand

2016/2017

- 2017-04-26 **Presenter:** Cecilea Mun (University of Nevada) **Title:** The Problem of Intentionality and Bridging Interdisciplinary Divides
- 2017-04-28 **Presenter:** Matthew Parrott (KCL) **Title:** How to Make Friends by Ignoring Faces
- 2017-03-08 **Presenter:** Ema Sullivan-Bissett **Title:** Implicit Bias as Unconscious Imagining
- 2017-03-22 **Presenter:** Kengo Miyazono **Title:** A Hybrid Theory of Delusion Formation
- 2017-02-08 **Presenter:** Dr Mog Stapleton (University of Edinburgh) **Title:** The Heart of Self Awareness
- 2017-02-22 **Presenter:** Wayne Christensen **Title:** Meshed control in skilled action
- 2017-01-25 **Presenter:** Ellen Fridland **Title:** Do as I say and as I do: Imitation, pedagogy and cumulative culture
- 2016-12-07 **Presenter:** Neil Levy (University of Oxford) **Title:** You Meta Believe it
- 2016-11-01 **Speaker:** Casey O'Callaghan (Washington University, St Louis) **Title:** "Enhancement Through Coordination"
- 2016-11-09 **Presenter:** John Michael (University of Warwick) **Title:** "The Sense of Commitment"
- 2016-11-16 **Presenter:** Roly Perera **Title:** "Phenomenology as Functionality: The Virtual Cartesian Theatre"
- 2016-11-23 **Speaker:** Adina Roskies **Title:** Free will in the age of neuroscience
- 2016-10-12 **Presenter:** Josh Shepherd (University of Oxford) **Title:** "The experience of acting and the structure of phenomenal consciousness"
- 2016-09-28 **Presenter:** Kathy Puddifoot (University of Birmingham) **Title:** "Mindreading, Implicit Bias and Mental Illness"

2015/2016

- 2016-03-23 **Presenter:** Dr Mick Thacker PhD. MSc. Grad Dip Phys.

Grad Dip MNMSD. HPC. FCSP. Senior Consultant AHP (Pain), Guy's & St Thomas' NHS Foundation Trust. Senior Lecturer, Centre for Human and Aerospace Physiological Sciences. King's College London. Deputy Lead, Pain Research Section, Neuroimaging. Institute of Psychiatry. Kings College London. Adjunct Senior Research Fellow, School of Health Sciences. University of South Australia. **Title:** "Top Down Before Bottom Up? Predictive Processing – A Better way to Understand Pain?"

- 2016-03-09 **Presenter:** Prof Barbara Webb (University of Edinburgh) **Title:** "Optimal cue integration in ants"
- 2016-02-24 **Presenter:** Prof Giovanna Colombetti (University of Exeter) **Title:** "Affectivity and Incorporation"
- 2016-02-03 **Presenter:** Prof Chris Mole (University of British Columbia, Vancouver) **Title:** "Involuntary Episodic Recall"
- 2016-01-20 **Presenter:** Prof Michael Wheeler (University of Stirling) **Title:** "Extended Consciousness"
- 2015-12-09 **Presenter:** Carl Gillett (Northern Illinois University) **Title:** "Fundamentalism vs. Mutualism: The Ongoing Scientific Battles over Reduction and Emergence"
- 2015-11-25 **Presenter:** Henry S. Thompson (University of Edinburgh) **Title:** "Virtual Violence: The Moral Status of Virtual Agents"
- 2015-11-16 **Presenter:** Helen Steward (University of Leeds) **Title:** "Touching Experiences"
- 2015-11-11 **Presenter:** Jennifer Corns (University of Glasgow) **Title:** "Hedonic Independence and the Negativity Bias"
- 2015-10-28 **Presenter:** Maria Serban (London School of Economics) **Title:** "How to be a pragmatist about representational kinds"
- 2015-10-14 **Presenter:** Michael Madary (Johannes Gutenberg University Mainz) **Title:** "When Perceptual Anticipation Goes Awry: Trailing, Palinopsia, and Akinetopsia"
- 2015-09-30 **Presenter:** Adam Linson (University of Oxford & University of Edinburgh) **Title:** "Shifting perspectives: From veridical to reliable perception across physical and aesthetic contexts"

2014/2015

- 2015-08-13 **Presenter:** Prof Robert Rupert (University of Colorado, Boulder) **Title:** "Embodied Functionalism as Longstanding Orthodoxy; or, Why Mainstream Cognitive Scientists Should Think the Body Matters but Cognition Doesn't"
- 2015-07-14 **Presenter:** Prof Robert Rupert (University of Colorado, Boulder) **Title:** "The Primacy of Subpersonal Content"
- 2015-07-01 **Presenter:** Carrie Figdor (Associate Professor, University of Iowa) **Title:** "Psychological concepts in non-psychological sciences: a case study in conceptual drift"
- 2015-05-20 **Presenter:** Christopher Burr (University of Bristol) **Title:** "The Body as Laboratory"
- 2015-03-25 **Presenter:** Ian Phillips (Oxford University) **Title:** "Unconscious perception reconsidered"
- 2015-03-11 **Presenter:** Matthew Parrott (University of Cambridge) **Title:** "Delusions as Explanations"
- 2015-02-25 **Presenter:** Keith Wilson (University of Glasgow) **Title:** "The Two Senses of Smell"
- 2015-02-04 **Presenter:** David Carmel (University of Edinburgh) **Title:** "Attentional attractors and visual awareness"
- 2015-01-21 **Presenter:** Joanna Bryson (University of Bath) **Title:** "Semantics, Consciousness, Ethics... The Reality of AI Kicks Philosophy Out of the Arm Chair"
- 2014-11-19 **Presenter:** Dr Maja Spener (University of Birmingham) **Title:** "Abilities and the nature of perception"
- 2014-11-05 **Presenter:** Dr Louise Richardson (University of York) **Title:** "Smelling Sweet Things"
- 2014-10-29 **Presenter:** Claire Sergent (University Paris Descartes) **Title:** "Retro-perception: how retrospective attention influences conscious perception"
- 2014-10-08 **Presenter:** Dr Ophelia Deroy (Institute of Philosophy, School of Advanced Study, University of London) **Title:** "Multisensory integration, and the many unities of consciousness"
- 2014-09-24 **Presenter:** Dr Dorothea Debus (University of York)

Title: "'Mental Time Travel': Remembering the Past, Imagining the Future, and the Particularity of Events"

2013/2014

- 2014-07-30 **Presenter:** Prof Rob Rupert (University of Colorado at Boulder & University of Edinburgh) **Title:** "Cognition and Persons, without Realization or Implementation"
- 2014-04-02 An extended length PPIG to mark the impending end of term features talks from Professor Dan Hutto (University of Wollongong), Dr Xabier Barandiaran (University of the Basque Country) and Dr Suilin Lavelle (University of Edinburgh).
- 2014-03-19 **Presenter:** Professor Matthew Ratcliffe (Durham University) **Title:** "How Anxiety Induces Verbal Hallucinations"
- 2014-03-05 **Presenter:** Mark Sprevak (Edinburgh) **Title:** "Fictionalism about neural representations"
- 2014-02-19 **Presenter:** Lars Muckli (Psychology, Glasgow) **Title:** "Predictive coding of auditory and contextual information in early visual cortex – evidence from layer specific fMRI brain reading"
- 2014-02-05 **Presenter:** Andrew Manches (Moray House School of Education) **Title:** "'Interaction, Embodiment and Technologies in Early Learning': the relationship between action, gesture, and the design of educational technology"
- 2014-01-22 **Presenter:** Nathaniel Smith (Informatics) **Title:** "Building a Bayesian bridge between the physics and the phenomenology of social interaction"
- 2013-12-18 **Presenter:** Professor Carl Gillett (Northern Illinois University) **Title:** "You are a Brain: Exploring the Implications of Expansive Materialism"
- 2013-12-04 **Presenter:** Alex Doumas (University of Edinburgh) **Title:** "Acquiring Structure from the World"
- 2013-11-20 **Presenter:** Komarine Romdenh-Romluc (University of Nottingham) **Title:** "Habit and Attention"
- 2013-11-06 **Presenter:** Jillian Craigie (University College London) **Title:** "Mental capacity, neurodiversity and legal recognition"

- 2013-10-23 **Presenter:** Sanneke De Haan (University of Amsterdam) **Title:** "An enactive approach to psychiatry: Obsessive-Compulsive Disorder and Deep Brain Stimulation as a test case"
- 2013-10-09 **Presenter:** Jakob Hohwy (Philosophy and Cognition Lab, Monash University) **Title:** "The self-evidencing brain"
- 2013-09-25 **Presenter:** Alistair Isaac (University of Edinburgh) **Title:** "Psychophysics and Skepticism: Müller's "Doctrine of Specific Nerve Energies"."
- 2013-09-10 **Presenter:** Professor Eric Schwitzgebel (UC Riverside) **Title:** "If Materialism Is True, the United States Is Probably Conscious"

2012/2013

- 2013-05-01 **Presenter:** Maggie McGonigle (University of Edinburgh) **Title:** "Growing concepts: A comparison of linear, hierarchical and syntactic structures during their emergence"
- 2013-03-20 **Presenter:** Richard Harper (Microsoft Research) **Title:** "Texture: Texture: Human expression in the age of communications overload"
- 2013-03-06 **Presenter:** Anil Seth (Sussex) **Title:** "Interoceptive predictive coding, conscious presence, and the experience of body ownership"
- 2013-02-20 **Presenter:** David Carmel (Edinburgh) **Title:** "Mechanisms of conscious and unconscious perception"
- 2013-02-06 **Presenter:** Simon Prosser (St Andrews) **Title:** "The Content of Colour Experience"
- 2013-01-23 **Presenter:** Matthew Broome (Warwick) **Title:** "Jaspers and Neuroscience"
- 2013-01-16 **Presenter:** Chris Allen (Cardiff) **Title:** "Transcranial Magnetic Stimulation effects on conscious awareness and perception"
- 2012-12-05 **Presenter:** David Bain (Glasgow) **Title:** "An Evaluativist Account of Pain Asymbolia"
- 2012-11-14 **Presenter:** Jennifer Corns (Glasgow) **Title:** "Are painful emotional episodes pains?"

- 2012-10-24 Workshop on Models and Explanations in Science and Cognitive Sciences
- 2012-10-18 **Presenter:** Jesse Prinz (CUNY) **Title:** "Psycho-ontology"
- 2012-09-26 **Presenter:** Murray Shanahan (Imperial College) **Title:** "Connectivity and Consciousness"

2011/2012

- 2012-04-04 **Presenter:** Matt Nudds (University of Edinburgh) **Title:** Perceptual Psychology as Philosophy: Burge vs. McDowell
- 2012-03-21 **Presenter:** Julien Deonna & Fabrice Teroni (University of Geneva) **Title:** Emotions as Attitudes
- 2012-03-07 **Presenter:** Matteo Columbo (University of Edinburgh) **Title:** "Social Rewards and Normative Learning. An Experimental Study" (Joint work with Aistis Stankevicius and Peggy Seriès).
- 2012-02-29 **Presenter:** Allan Hazlett (University of Edinburgh) **Title:** Bias and Personality
- 2012-02-22 **Presenter:** Jean-Michel Roy (Ecole Normale Supérieure) **Title:** The Problem of Unconscious Consciousness
- 2012-02-08 **Presenter:** Tim Bates (University of Edinburgh) **Title:** Brain mechanisms for moral behavior
- 2012-01-25 **Presenter:** Robert O'Shaughnessy (University of Edinburgh) **Title:** Disposable symbols
- 2011-11-30 **Presenter:** John Kulvicki (Dartmouth University) **Title:** Sound stimulants: defending the stable disposition view
- 2011-10-26 **Presenter:** Zoe Drayson (Australian National University) **Title:** On personal and sub-personal states
- 2011-10-05 **Presenter:** Philip Gerrans (University of Adelaide) **Title:** Intentional Imagination and Default Thought
- 2011-09-28 **Presenter:** Dave Ward (University of Edinburgh) **Title:** Achieving Transparency: A case for strong enactivism

2010/2011

- 2011-06-15 **Presenter:** Anthony Morse (University of Plymouth)

Title: Thinking with your body Thinking with your body

- 2011-05-18 **Presenter:** David Reichert (Informatics) **Title:** Hallucinations in Charles Bonnet Syndrome Induced by Homeostasis: a Deep Boltzmann Machine Model
- 2011-04-13 **Presenters:** Julian Kiverstein and Till Vierkant **Title:** Introduction to Decomposing the Will Introduction to Decomposing the Will
- 2011-03-25 **Presenter:** Wayne Wu (Carnegie Mellon University) **Title:** Confronting Many-Many Problems: Attention and Agentive Control
- 2011-03-09 **Presenter:** Mark Adams (Edinburgh)
 - Reading 1: Cashmore AR (2010) The Lucretian swerve: The biological basis of human behavior and the criminal justice system. PNAS.
 - Reading 2: Brembs B (2011) Towards a scientific concept of free will as a biological trait: spontaneous actions and decision-making in invertebrates. Proc R Soc B.
- 2011-02-23 **Presenter:** Alexandre Monnin (Sorbonne) **Title:** Philosophy of the Web as artifactualization Philosophy of the Web as artifactualization
- 2011-02-09 **Presenter:** Richard Stöckle Schobel Paper: Prelinguistic infants, but not chimpanzees, communicate about absent entities Prelinguistic infants, but not chimpanzees, communicate about absent entities
- 2011-01-26 **Presenter:** Tim Bates **Title:** "What does a gene have to be, to be a gene "for""? Introductory Paper: "A Gene for...": The Nature of Gene Action in Psychiatric Disorders
- 2011-01-12 **Presenter:** Mark Sprevak Paper: Inference to the Hypothesis of Extended Cognition
- 2010-12-15 **Presenters:** Matteo Colombo and Matthew Chalk
 - Paper 1: Probabilistic models of cognition: exploring representations and inductive biases
 - Paper 2: Letting structure emerge: connectionist and dynamical systems approaches to cognition

- Overview: Matteo Colombo and Matthew Chalk presented on the recent TICS debate between 'structured probabilistic' and 'connectionist and emergentist' approaches to mind.
- 2010-11-18 Discussant: Jesse Prinz
 - Paper 1: The Emotional Basis of Moral Judgments
 - Paper 2: Resisting the Linguistic Analogy: A Commentary on Hauser, Young, and Cushman
 - Overview: Jesse Prinz's work on morality was discussed.
- 2010-10-20 **Presenter:** Mark Miller (Philosophy) **Title:** The Brain's Default Network (PDF)
- 2010-10-06 **Presenter:** Gary Lewis (Psychology) **Title:** Individual Variability in Brain Activity: A Nuisance or an Opportunity?

2009/2010

- 2010-05-19 **Presenter:** Samuli Poyhonen **Title:** Natural Kinds of extended mechanisms
- 2010-05-05 **Presenter:** Richard Stoeckle **Title:** Doing without concepts
- 2010-04-21 **Presenter:** Liz Irvine **Title:** What is Psychological Explanation?
- 2010-03-24 **Presenter:** Erik Myin **Title:** The Extent Of Memory. From Extended To Extensive Memory
- 2010-02-17 **Presenter:** Stuart Ritchie **Title:** Gregory Hickok's recent paper 'Eight Problems for the Mirror Neuron Theory of Action Understanding in Monkeys and Humans'.
- 2010-02-03 **Presenter:** Sam Wilkinson **Title:** Keith Frankish on delusions Paper: Delusions: A two level framework
- 2010-01-20 Q & A: Eric Schwitzgebel on his: The Unreliability of Naive Introspection.
- 2009-12-02 **Presenter:** Dominic Johnson **Title:** Monoamine oxidase A gene (MAOA) predicts behavioral aggression following provocation.
- 2009-11-18 **Presenter:** Andy Clark Paper: Do we have independent visual streams for perception and action?

- 2009-11-04 **Presenter:** Andreas Paraskevides **Title:** Jennan Ismael on self regulation Paper: Saving the Baby: Dennett on Autobiography, Agency and the Self
- 2009-10-23 **Presenter:** Jason Major **Title:** The Philosophy of Latent Variables.
- 2009-10-07 Tim Bates led a discussion on Steve Jones' recent public lecture: Has human evolution stopped?
- 2009-09-23 Liz Irvine presented: Consciousness: The radical plasticity thesis by Cleeremans, A (forthcoming)

2008/2009

- 2009-05-27 Massimiliano Cappuccio: Mirror neurons and skilful coping: motor intentionality between sensorimotor and ideo-motor schemata in goal-directed actions
- 2009-05-18 Tim Bates: Beauty in the built-world and the mind: de gustibus non est disputandum?
- 2009-03-13 Markus Guhe presented the Behavioural and Brain Sciences paper: Numerical Representation in the Parietal Lobes: Abstract or not Abstract? by Cohen Kadosh and Walsh
- 2009-03-04 Robert Kyle talk about: The biological basis of cognitive control: in the endocrine, immune, or central nervous system? Optional background reading: Modulating the modulators: parasites, neuromodulators and the host behavioural change, Adamo (2002)
- 2009-02-18 Spatial coordinates and phenomenology in the two-visual systems model by Pierre Jacob and Frederique de Vignemont
- 2009-02-04 Gary Lewis (Psychology) our new face on the PPIG team introduced The new synthesis in moral psychology by Jonathan Haidt.
- 2009-01-21 Thomas Bak on: The slow death of the language module - a neurologist's obituary
- 2008-11-19 Jerry Fodor: Revenge of the given
- 2008-11-05 Csibra & Gergeley: Obsessed with goals: functions and mechanisms of teleological interpretation of action in humans
- 2008-10-22 Richard Shilcock: The Nature of foveal representation by Michal Lavidor and Vincent Walsh

2007/2008

- 2008-03-12 Levels of description and explanation in cognitive science by William Bechtel.
 - Supplementary reading: Understanding the mind of a worm: hierarchical network structure underlying nervous system function in *C. elegans* by Nivedita Chatterjee et al.
- 2008-02-27 Biology and Linguistics presented by the author Ray Jennings
- 2008-02-13 Is Consciousness a Gradual Phenomenon? Evidence for an All-or-None Bifurcation During the Attentional Blink by Claire Sergent and Stanislas Dehaene
- 2007-12-05 Reasons of which reason knows not by Jennifer Church
- 2007-10-31 With the Future Behind Them: Convergent Evidence From Aymara Language and Gesture in the Crosslinguistic Comparison of Spatial Construals of Time by Rafael E. Núñez and Eve Sweetser
- 2007-10-21 The Brain's concepts: The role of the sensory-motor system in conceptual knowledge by Vittorio Gallese, George Lakoff
- 2007-10-03 The Shared Circuits Model: How Control, Mirroring and Simulation Can Enable Imitation, Deliberation, and Mindreading by Professor Susan Hurley

2006/2007

- 2007-06-20 Action and Self-Location in Perception by Susanna Schellenberg
- 2006-11-15 The Role of Embodied intention in Early Lexical Acquisition by Yu, C., Ballard, D., and Aslin, R. *Cognitive Science* 29(6): 961-1005 (2005)
- 2006-11-01 Felice L. Bedford. Two papers:
 - False categories in cognition: the Not-The-Liver fallacy, *Cognition* 64:3, pp.231-48. (1997)
 - More on the Not-The-Liver Fallacy: Medical, Neuropsychological and Perceptual Dissociations, *Cortex*, 39:1, pp.170-3 (2003)

- 2006-10-18 On Being Simple Minded, Peter Carruthers
- 2006-10-06 Speaker: Chris Sinha Epigenetics, Semiotics, and the Mysteries of the Organism Two papers:
 - Epigenetics, Semiotics, and the Mysteries of the Organism *Biological Theory*, 1.2, In Press (2006).
 - Blending out of the background: Play, props, and the staging of the material world *Journal of Pragmatics*, 37 2005

2005/2006

- 2006-06-07 Perception and Action Planning, W. Prinz *European Journal of Cognitive Psychology* 1998
- 2006-05-24 The emergence of the self and other in perception and action: An event-controlled approach. J. Scott Jordan *Consciousness and Cognition* (12) 2003
- 2006-04-26 Beyond Behaviourism: On the automaticity of higher mental processes. Bargh and Ferguson *Psychological Bulletin* 2000
- 2006-04-05 Open Problems in the Philosophy of Information Luciano Floridi *Metaphilosophy* 2004 35 (4)
- 2006-03-15 Apparent mental causation: Sources of the experience of will D.M. Wegner and T. Wheatley *American Psychologist* (1999)
- 2006-02-15 How to Do Things with (and without) Representations Mike Wheeler To appear in R. Menary (ed.), *The Extended Mind*
- 2006-02-01 Understanding and sharing intentions: The origins of cultural cognition Tomasello, M., Carpenter, M., Call, J., Behne, T., & Moll, H) *In Behavioral and Brain Sciences* 28(5), 2005
- 2006-01-18 The Neural Basis of Predicate-Argument Structure Jim Hurford *In Behavioral and Brain Sciences* 23(6), 2003 HTML Version (with peer commentaries and response)
- 2005-12-14 Cognitive architecture of a minibrain: the honeybee R. Menzel and M. Giurfa *In Trends Cognit Sci* (2001) 5: 62-71
- 2005-11-16 Speaker : Achille Varzi (Columbia) *The Argument from Vagueness to Perdurantism*
- 2005-11-02 Material Representations: From the Genetic Code to the Evolution of Cellular Automata Luis Rocha and Wim Hordijk *Artificial*

Life 11: 189-214. 2005

- 2005-10-19 A complex-systems perspective on the "computation vs. dynamics" debate in cognitive science. Melanie Mitchell In M. A. Gernsbacher and S. J. Derry (eds.), Proceedings of the 20th Annual Conference of the Cognitive Science Society---Cogsci98, 710-715. Dave Hawkey's Reply, giving a "Non-Representational Interpretation"
- 2005-10-05 Rehabilitating Representationalism Brian Cantwell Smith Draft (not for citation). For citing and further exploration of this topic, read Brian Smith's book On the Origin of Objects
- 2005-09-21 Perceiving Intentions Joelle Proust In: Agency and Self Awareness: Issues in Philosophy and Psychology. Johannes Roessler and Naomi Eilan (eds), Oxford University Press 2003
- 2005-09-07 Humans, Machines, and the Structure of Knowledge Harry Collins In: SEHR, volume 4, issue 2: Constructions of the Mind

2004/2005

- 2005-06-15 Misrepresentation Fred Dretske In: R. Bogdan, ed. Belief: Form, Content, and Function. New York: Oxford University Press
- 2005-05-18 Functionalism at Forty: A Critical Retrospective Paul Churchland Forthcoming in Journal of Philosophy
- 2005-02-08 A sensorimotor account of vision and visual consciousness O'Regan, J.K. and Noe, A. Behavioral and Brain Sciences (2001) 24(5) HTML Version (final edition)
- 2005-02-22 A solution to Plato's problem: The Latent Semantic Analysis theory of the acquisition, induction, and representation of knowledge. Landauer, T. K., & Dumais, S. T. Psychological Review (1997), 104, 211-240
- 2005-03-09 Representations and Cognitive Explanations: Assessing the Dynamicist's Challenge in Cognitive Science William Bechtel Cognitive Science, 22, 295-318
- 2005-03-23 Analog and Analog Haugeland, J. In J. Biro and R. Shahan (eds), Mind, Brain and Function. New York, The Harvester Press, 1981
- 2005-04-06 In defence of some 'Cartesian' assumptions concerning

the brain and its operation. Grush, Rick. *Biology and Philosophy*
(2003) 18:53-93