

**PROGRAMME**  
SUNDAY 27 JULY 2014

SUNDAY 27 JULY 2014	
2.00pm – 7.30pm	Registration Desk Open
CONFERENCE OPENING AND PLENARY SESSION	
5.30pm – 6.00pm	Plaza Auditorium – Chair: Ross Cunnington
	<b>OFFICIAL OPENING</b> Associate Professor Ross Cunnington, The University of Queensland, Australia
6.00pm – 7.00pm	<b>KEYNOTE LECTURE 1</b> <i>Eye Movements And Visual Stability</i> Professor Jason Mattingley, The University of Queensland, Australia
	Supported by 
7.00pm – 8.30pm	Welcome Reception

This Conference Programme is correct at the time of printing, however, the Organising Committee reserves the right to alter the Programme if necessary.



# PROGRAMME

## MONDAY 28 JULY 2014

MONDAY 28 JULY 2014				
8.00am	Registration Desk Open			
PLENARY SESSION				
9.00am – 10.00am	Plaza Auditorium – Chair: Blake Johnstone			
	<b>KEYNOTE LECTURE 2</b> <i>Towards A Personalized Cognitive Neuroscience: The Myconnectome Project</i> <b>Professor Russell A Poldrack</b> , University of Texas at Austin, USA		Supported by 	
10.00am – 10.30am	Morning Tea with Exhibitors		Supported by 	
CONCURRENT SESSIONS				
	<b>S01 - Frontal-Striatal Interaction In Reward-Guided Decision Making</b>  Plaza Auditorium  <b>Chair:</b> Matthew Rushworth	<b>S02 - Multi-Frequency Brain Network Dynamics In Human Memory</b>  Room P6  <b>Chair:</b> Brett Foster	<b>S03 - Implications Of Age-Related Cerebrovascular Changes On Brain Structure And Function</b>  Room P7  <b>Chair:</b> Monica Fabiani	<b>OP1 - Methods Development</b>  Room P8  <b>Chair:</b> Paul Corballis
10.30am – 10.50am	<b><i>Making Decisions Between Multiple Options</i></b> <b>Matthew Rushworth</b> , University of Oxford, UK (SO1 001)	<b><i>A Graph Theory Approach To Human Episodic Memory: Outlining The Spectrotemporal Basis Of Episodic Memory Retrieval</i></b> <b>Arne Ekstrom</b> , University of California Davis, USA (SO2 001)	<b><i>Cerebrovascular Influences On Cognitive And Brain Aging</i></b> <b>Monica Fabiani</b> , University of Illinois at Urbana-Champaign, USA (SO3 001)	<b><i>The Contribution of TMS-EEG Coregistration in the Exploration of the Human Connectome</i></b> <b>Carlo Miniussi</b> , IRCCS Centro San Giovanni di Dio Fatebenefratelli, Italy (OP1 001)
10.50am – 11.10am	<b><i>Dysexecutive Syndrome: The Cortical- And Thalamo-Striatal Pathways And Disorders Of Goal-Directed Action</i></b> <b>Bernard Balleine</b> , University of Sydney, Australia (SO1 002)	<b><i>Oscillatory Dynamics Of The Medial And Lateral Parietal Lobe During Episodic Retrieval And Resting-State</i></b> <b>Brett Foster</b> , Stanford University, USA (SO2 002)	<b><i>Imaging Associates of Post-Stroke Depression: A Longitudinal Cohort Study</i></b> <b>Leeanne Carey</b> , Florey Institute of Neuroscience and Mental Health, Australia (SO3 002)	<b><i>Exploring The Topology Of Network Convergence: Integration And Segregation In The Human Connectome</i></b> <b>Peter Bell</b> , Brain and Mind Research Institute, Australia (OP1 002)
11.10am – 11.30am	<b><i>Learning From Errors: The Role Of The Dorsal Cingulate In Feedback-Based Adaptive Behaviour</i></b> <b>Rob Hester</b> , University of Melbourne, Australia (SO1 003)	<b><i>Oscillatory Memory Signals In The Hippocampus During Encoding, Retrieval And Sleep</i></b> <b>Bernhard Staresina</b> , Cambridge University, UK (SO2 003)	<b><i>Interrelationships Among Self-Reported Orthostatic Hypotension, Cognitive Decline, White Matter Hyperintensities In An 8-Year Longitudinal Study Of A Young-Old Cohort</i></b> <b>Kaarin Anstey</b> , Australian National University, Australia (SO3 003)	<b><i>Tracking Brain Plasticity in Cochlear Implant Patients Using the Event-Related Optical Signal (EROS)</i></b> <b>Chun-Yu Tse</b> , The Chinese University of Hong Kong, Hong Kong (OP1 003)
11.30am – 11.50am	<b><i>Active Mechanisms of Learning And Decision-Making</i></b> <b>Rei Akaishi</b> , Tokyo Metropolitan Institute of Medical Science, Japan (SO1 004)	<b>11.30am – 11.40am</b> <b>Q&amp;A</b>	<b><i>The Role Of Arterial Pulsatility And White Matter Microstructure In Age-Related Cognitive Decline</i></b> <b>Todd Jolly</b> , University of Newcastle, Australia (SO3 004)	<b><i>Analysis Of EEG/MEG Map Topographies And Source Distributions On The Epoch Level Using Non-Parametric Randomization Tests</i></b> <b>Michael Wagner</b> , Compumedics, Germany (OP1 004)
11.50am – 12.00pm	Q&A		Q&A	
12.00pm – 1.00pm	Lunch at Leisure			



# PROGRAMME

## MONDAY 28 JULY 2014

MONDAY 28 JULY 2014					
CONCURRENT SESSIONS					
	S04 - The Role of Brain Oscillations in Perception, Attention, and Memory	S05 - Neural Indices Of Primitive Intelligence: From The Midbrain To Cortex	S06 - Cross-Modal Integration And Plasticity Of Sensory Systems In The Normal And Peripherally Deprived Brain	D01 - Translational Cognitive Neuroscience: Understanding Attention And Multitasking On The Roadway	
	Plaza Auditorium	Room P6	Room P7	Room P8	
	Chair: Simon Hanslmayr	Co-Chairs: Pat Michie & Manuel Malmierca	Chair: Franco Lepore	Chair: David Strayer	
1.00pm – 1.20pm	<i>Decreased Beta Power As A Predictor of Memory Encoding</i> Simon Hanslmayr, University of Birmingham, UK (S04 001)	<i>Stimulus-Specific Adaptation In The Subcortical Auditory Brain</i> Manuel S. Malmierca, University of Salamanca, Spain (S05 001)	<i>Cross-Modal Compensation And Plasticity In The Blind And Deaf : These Two Modalities Do Not Always Show Similar Outcomes</i> Franco Lepore, University of Montréal, Canada (S06 001)	David Strayer, University of Utah, USA (D01 001) Paul Atchley, University of Kansas, USA (D01 002) Jason McCarley, Flinders University, Australia (D01 003)	
1.20pm – 1.40pm	<i>Pre-Stimulus Oscillations Determine Conscious Access In The Attentional Blink Task</i> Denes Szucs, University of Cambridge, UK (S04 002)	<i>Early Occurrence Of Auditory Change Detection In The Human Brain</i> Sabine Grimm, University of Leipzig, Germany (S05 002)	<i>Surface Vs Structural Properties Of Multisensory Object Representations</i> Krish Sathian, Emory University, USA (S06 002)		
1.40pm – 2.00pm	<i>Oscillatory Brain States and Variability in Visual Short-Term Memory</i> Nicholas Myers, University of Oxford, UK (S04 003)	<i>Mismatch Responses To Frequency Deviants In The Surface EEG Of Awake, Freely Moving Rats: A Platform For Examining Pharmacological And Developmental Animal Models Of Schizophrenia</i> Lauren Harms, University of Newcastle, Australia (S05 003)	<i>Enhanced Visual Cognition In The Congenitally Deaf</i> Stephen G. Lomber, University of Western Ontario, Canada (S06 003)		
2.00pm – 2.20pm	<i>Alpha and Beta Entrainment Affects Simple and Complex Perception</i> Simon Hanslmayr, University of Birmingham, UK (S04 004)	<i>Primitive Intelligence Of The Human Brain As Indexed By The Mismatch Negativity (MMN)</i> Risto Näätänen, University of Aarhus, Denmark (S05 004)	<i>“Seeing” And Reading With The Ears: From Basic Research To Visual Rehabilitation</i> Amir Amedi, Hebrew University Jerusalem (S06 004)		
2.20pm – 2.30pm	Q&A	Q&A	Q&A		
PLENARY SESSION					
2.30pm – 3.30pm	Plaza Auditorium – Chair: Paul Corballis				
	<b>KEYNOTE LECTURE 3</b> <i>The Wandering Mind: Mental Time Travel, Theory Of Mind, And Language</i> Professor Michael C. Corballis, University of Auckland, New Zealand			Supported by 	
3.30pm – 4.00pm	Afternoon Tea with Exhibitors				
4.00pm – 6.00pm	<b>POSTER SESSION 1</b> Rooms P9, 10 & 11 (Combined)				
	ATTENTION	COGNITION & EXECUTIVE PROCESSES	LANGUAGE	MEMORY & LEARNING	MOTOR BEHAVIOUR
					SENSATION & PERCEPTION



# PROGRAMME

## TUESDAY 29 JULY 2014

TUESDAY 29 JULY 2014				
8.00am	Registration Desk Open			
PLENARY SESSION				
9.00am – 10.00am	Plaza Auditorium – Chair: Michael Breakspear			
	<b>KEYNOTE LECTURE 4</b> <b>Hubs In Brain Structure And Function</b> <b>Professor Olaf Sporns</b> , Indiana University, USA		Supported by	
10.00am – 10.30am	Morning Tea with Exhibitors		Supported by	
CONCURRENT SESSIONS				
	<b>S07 - Understanding High-Level Vision, Attention And Decision Making By Means Of Frequency-Tagging EEG</b>  Plaza Auditorium  <b>Chair:</b> Bruno Rossion	<b>S08 - The Dynamic Brain</b>  Room P6  <b>Chair:</b> Leonardo Gollo	<b>S09 - New Approaches To The Neural Basis Of Mathematical Cognition</b>  Room P7  <b>Chair:</b> Brian Butterworth	<b>OP2 - Cognition, Memory &amp; Learning</b>  Room P8  <b>Chair:</b> Ross Cunnington
10.30am – 10.50am	<b>Objective Evidence For Perceptual Integration By Means Of Frequency-Tagging EEG</b> <b>Bruno Rossion</b> , University of Louvain, Belgium (S07 001)	<b>Anticipated Synchronization In Neuronal Populations: Reconciling Information Directionality With Negative Time Lag</b> <b>Claudio R. Mirasso</b> , Institute for Cross-Disciplinary Physics and Complex Systems, Spain (S08 001)	<b>Microstructural Measures Of The Developing Brain And Its Response To Learning: Evidence From Neuroimaging</b> <b>Chris Clark</b> , University College London, UK (S09 001)	<b>Temporally Sustained Activity in Lateral Prefrontal Cortex Supports Decision Making</b> <b>Matar Haller</b> , University of California, Berkeley, USA (OP2 001)
10.50am – 11.10am	<b>Using Frequency Tagging To Measure Visual Perception And Selective Attention In Health And Disease</b> <b>Professor Jason Mattingley</b> , University of Queensland, Australia (S07 002)	<b>(How The Thalamus Changes) What The Cat's Eye Tells The Cat's Brain</b> <b>Luis M. Martinez</b> , Institute of Neuroscience, Alicante, Spain (S08 002)	<b>Simple Calculation In The Brain: Evidence From Direct Cortical Electro-Stimulation</b> <b>Carlo Semenza</b> , University of Padova, Italy (S09 002)	<b>Investigating Neural Correlates of Dual-Tasking and Task-Switching: A Meta-Analytic Approach</b> <b>Britta Worringer</b> , RWTH Aachen University, Germany (OP2 002)
11.10am – 11.30am	<b>Behavioural, Electrophysiological, And Genetic Approaches To Studying Top-Down Visual Attention In Insects</b> <b>Bruno van Swinderen</b> , Queensland Brain Institute, Australia (S07 003)	<b>Computational Models Of Perceptual Uncertainty And Decision Making</b> <b>Leonardo L. Gollo</b> , Queensland Institute for Medical Research, Australia (S08 003)	<b>Training The "Mathematical Brain": Evidence From Functional Brain Imaging And Neuro-Modulation Techniques</b> <b>Teresa Iuculano</b> , Stanford University, USA (S09 003)	<b>Effects Of Acute Ketamine Infusion On Visual Working Memory Encoding: A Study Using ERPs</b> <b>Corinna Haenschel</b> , City University London, UK (OP2 003)
11.30am – 11.50am	<b>A Window Onto The Basic Elements Of Perceptual Decision Making In The Human Brain</b> <b>Redmond O'Connell</b> , Trinity College Dublin, Ireland (S07 004)	<b>Dwelling Quietly in the Rich Club: Brain Network Determinants of Slow Cortical Fluctuations</b> <b>Michael Breakspear</b> , Queensland Institute for Medical Research, Australia (S08 004)	<b>The Genetics Of The Neural Bases Of Low Numeracy</b> <b>Brian Butterworth</b> , University College London, UK (S09 004)	<b>Modeling Management Of Access To Working Memory As A Self-Evaluation Process For Intrinsically Motivated Prediction</b> <b>Catherine Wacongne</b> , INSERM, France (OP2 004)
11.50am – 12.00pm	Q&A	Q&A	Q&A	Q&A
12.00pm – 1.00pm	Lunch at Leisure			

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CONCURRENT SESSIONS					
	<b>S10 - TMS And TDCS As A Tool In Cognitive Neuroscience: How Does Transcranial Stimulation Influence Behavior?</b>	<b>S11 - The Menzies Foundation Symposium: A Window Into Normal Cognition: Insights From Synaesthesia</b>	<b>S12 - Working Memory 2014: 40 Years On Since Baddeley &amp; Hitch</b>	<b>D02 - How Do We Improve Medical Translation? Developing Translational Approaches Towards Exploring Cognitive And Behavioural Endophenotypes In Animal Models Of Disease</b>	
	Plaza Auditorium	Room P6	Room P7	Room P8	
	<b>Chair:</b> Hartwig Siebner	<b>Chair:</b> Anina Rich	<b>Chair:</b> Eva Feredoes	<b>Chair:</b> Jess Nithianantharajah	
<b>1.00pm – 1.20pm</b>	<b>Transcranial Electrical Stimulation (TDCS, TACS, And Trns) As Tools To Interfere With Cognitive Functions: Shifting Excitability And Shaping Oscillations</b> Michael A. Nitsche, University Medical Center Goettingen, Germany (S10 001)	<b>Implicit Shape-Color Associations In Synesthesia</b> David Brang, Northwestern University, USA (S11 001)	<b>The Role Of Attention In Working Memory Maintenance</b> Nahid Zokaei, University of Oxford, UK (S12 001)	<b>Jess Nithianantharajah</b> , University of Edinburgh, UK (DO2 001)  <b>Anthony J Hannan</b> , Florey Institute of Neuroscience and Mental Health, Australia (DO2 002)  <b>Caitlin E McOmish</b> , Columbia University Medical Center, USA (DO2 003)	
<b>1.20pm – 1.40pm</b>	<b>Non-Invasive Brain Stimulation In Cognitive Neuroscience: A "Noisy" Explanation</b> Carlo Miniussi, University of Brescia & IRCCS Centro San Giovanni di Dio Fatebenefratelli, Italy (S10 002)	<b>What Can Synaesthesia Teach Us About Sound Symbolism</b> Katie Bankieris, University of Rochester, USA (S11 002)	<b>The Neural Mechanisms Of Top-Down Control During Visual Working Memory</b> Eva Feredoes, University of Reading, UK (S12 002)		
<b>1.40pm – 2.00pm</b>	<b>Non-Invasive Brain Stimulation In Cognitive Neuroscience: A "Connectivity" Account</b> Hartwig R. Siebner, Copenhagen University Hospital Hvidovre, Denmark (S10 003)	<b>Grapheme-Colour Synaesthesia: More Than A Vivid Memory?</b> Derek Arnold, University of Queensland, Australia (S11 003)	<b>Alpha Activity As A Mechanism To Preserve Working Memory Integrity</b> Mathilde Bonnefond, Radboud University, Netherlands (S12 003)		
<b>2.00pm – 2.20pm</b>	<b>2.00pm – 2.10pm</b> Q&A	<b>A Conceptual Mediation Hypothesis Of Synaesthesia: What Can Yellow Tuesdays Tell Us About How We Represent Objects?</b> Anina N. Rich, Macquarie University, Australia (S11 004)	<b>The Hippocampus Is Necessary For Binding Object Identity To Location In Visual Working Memory</b> Yoni Pertzov, Hebrew University, Jerusalem (S12 004)		
<b>2.20pm – 2.30pm</b>		Q&A	Q&A		
PLENARY SESSION					
<b>2.30pm – 3.30pm</b>	Plaza Auditorium – <b>Chair:</b> Rob Hester				
	<b>KEYNOTE LECTURE 5</b> <b>Imaging And Stimulating Adaptive Brain Plasticity</b> Professor Heidi Johansen-Berg, University of Oxford, UK			Supported by 	
<b>3.30pm – 4.00pm</b>	Afternoon Tea with Exhibitors				
<b>4.00pm – 6.00pm</b>	<b>POSTER SESSION 2</b> Rooms P9, 10 & 11 (Combined)				
	<b>ATTENTION</b>	<b>COGNITION &amp; EXECUTIVE PROCESSES</b>	<b>EMOTIONAL &amp; SOCIAL PROCESSES</b>	<b>LANGUAGE</b>	<b>METHODS DEVELOPMENT</b>
					<b>SENSATION &amp; PERCEPTION</b>
<b>7.00pm – 10.30pm</b>	<b>CONFERENCE DINNER</b> Riverlife, Kangaroo Point. Free river transfer departs 6.00pm and 6.40pm from Southbank A Jetty (behind the Wheel of Brisbane).				



# PROGRAMME

## WEDNESDAY 30 JULY 2014

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PLENARY SESSION				
9.00am – 10.00am	Plaza Auditorium – Chair: Mark Williams			
	<b>KEYNOTE LECTURE 6</b> <b>Temporal Decoding Of Brain Signals: A Window Into Conscious And Non-Conscious Operations</b> Professor Stanislas Dehaene, Collège de France, Paris, France			
10.00am – 10.30am	Morning Tea with Exhibitors			
CONCURRENT SESSIONS				
	<b>S13 - Segregation And Integration Of Cortical Laminar Information Streams And Their Role In Attention</b>  Plaza Auditorium  <b>Co-Chairs:</b> René Scheeringa & Andre Bastos	<b>S14 - Consciousness, Integrated Information And The Free Energy Principle</b>  Room P6  <b>Chair:</b> Jakob Hohwy	<b>S15 - Task Set Representation And Updating: Aging, Training And Reward Motivation</b>  Room P7  <b>Chair:</b> Jutta Kray	<b>OP3 - Language</b>  Room P8  <b>Chair:</b> Paul Corballis
10.30am – 10.50am	<b>The Possibility To Image Functional Changes In Cortical Laminae Using fMRI</b> Markus Barth, The University of Queensland, Australia (S13 001)	<b>Can The Free Energy Principle Be Used To Generate A Theory Of Consciousness</b> Jakob Hohwy, Monash University, Australia (S14 001)	<b>Progression Of Age-Related Decline In Task-Switching Performance And White Matter Microstructural Integrity: A Longitudinal Study</b> Frini Karayanidis, University of Newcastle, Australia (S15 001)	<b>Ventral and Dorsal Pathways for Prosodic Intentions</b> Daniela Sammler, Max Planck Institute for Human Cognitive and Brain Sciences, Germany (OP3 001)
10.50am – 11.10am	<b>Structure/Function/Model Analyses Of The Neocortical Laminar Activity Profile In Awake-Behaving Primates</b> Saskia Haegens, Columbia University, USA (S13 002)	<b>Integrated Information Theory and the Sources of Meaning</b> Giulio Tononi, University of Wisconsin, USA (S14 002)	<b>Is The Transfer Of Task-Switching Training In Older Adults Dependent On The Type Of Training? The Impact Of Working Memory And Inhibitions Demands</b> Jutta Kray, Saarland University, Germany (S15 002)	<b>DCDC2 Polymorphism Is Associated With Cortical Thickness In Left Supramarginal And Angular Gyri</b> Fahimeh Darki, Karolinska Institute, Sweden (OP3 002)
11.10am – 11.30am	<b>The Relation Between Oscillatory EEG Activity And The Laminar Specific BOLD Signal</b> René Scheeringa, Donders Institute for Brain, Cognition and Behaviour, Netherlands (S13 003)	<b>Integrated Information And Free Energy – Peas In A Pod?</b> Anil Seth, University of Sussex, UK (S14 003)	<b>How Effective Are Monetary Incentives For Context Updating In Younger And Older Adults?</b> Hannah Schmitt, Saarland University, Germany (S15 003)	<b>Electrophysiological Evidence Of Statistical Learning In Preverbal Infants</b> Ghislaine Dehaene-Lambertz, INSERM U992, France (OP3 003)
11.30am – 11.50am	<b>Visual Areas Exert Bottom-Up And Top-Down Influences Through Distinct Frequency Channels</b> Andre M. Bastos, Ernst Strüngmann Institute (ESI) for Neuroscience, Germany (S13 004)	<b>Integrated Information And Free Energy – Obstacles To Their Combination</b> Naotsugu Tsuchiya, Monash University, Australia (S14 004)	<b>Reward Motivation Enhances Coding Of Task-Set Information In Frontoparietal Cortex</b> Jo Etzel, Washington University, USA (S15 004)	<b>Functional Near Infrared Spectroscopy (fNIRS) To Investigate Language Patterns Development Over Ages</b> Julie Tremblay, Sainte-Justine Hospital Research Center, Canada (OP3 004)
11.50am – 12.00pm	Q&A	Q&A	Q&A	Q&A
12.00pm – 1.00pm	Lunch at Leisure			





# PROGRAMME


## WEDNESDAY 30 JULY 2014

WEDNESDAY 30 JULY 2014						
CONCURRENT SESSIONS						
	S16 - Brain Processes Associated With Cognitive Control	S17 - Sensorimotor Foundations Of Understanding And Interacting With Others	S18 - Mechanisms Of Cognitive Decline In Normal Aging	OP4 - Sensation & Perception		
	Plaza Auditorium	Room P6	Room P7	Room P8		
	Chair: Gabriele Gratton	Chair: Emily Cross	Chair: Shulan Hsieh	Chair: Mark Williams		
1.00pm – 1.20pm	<i>The Role of Feedback in Visual Processing</i> Diane M. Beck, University of Illinois at Urbana-Champaign, USA (S16 001)	<i>Dissociable Routes To Empathy For Pain And Variance In Empathic Processes</i> Paola Sessa, University of Padova, Italy (S17 001)	<i>Differential Effects Of Aging On Recollection And Familiarity: An ERP Study</i> Axel Mecklinger, Saarland University, Germany (S18 001)	<i>Hallucinated And Correctly Detected Stimuli Evoke Similar Activity Patterns In Early Visual Cortex</i> Auréliane Pajani, Laboratory of Cognitive Sciences & Psycholinguistics, France (OP4 001)		
1.20pm – 1.40pm	<i>Lateralisation of the Event-Related Brain Potential Reveals Neural Correlates of Attention, Distractor Suppression, and Visual Short-Term Memory</i> Paul M. Corballis, University of Auckland, NZ (S16 002)	<i>Is The Human Mirror System Located Within Broca's Area? A Selective Meta-Analysis Of fMRI Studies Of Action Observation And Execution</i> Pascal Molenberghs, The University of Queensland, Australia (S17 002)	<i>The Boundary Condition For Compensatory Responses By The Elderly In A Flanker-Task Paradigm</i> Shulan Hsieh, National Cheng Kung University, Taiwan (S18 002)	<i>Qualitatively Different Neural Mechanisms For Conscious And Subliminal Multiple Word Integration</i> Simon van Gaal, University of Amsterdam, Netherlands (OP4 002)		
1.40pm – 2.00pm	<i>Investigating Brain Networks In Task Preparation</i> Gabriele Gratton, University of Illinois at Urbana-Champaign, USA (S16 003)	<i>The Impact Of Social Information On How We Perceive And Interact With Other Agents</i> Emily Cross, Bangor University, UK (S17 003)	<i>The Effects Of Age On Episodic Memory - What Stays Up And What Goes Down?</i> Michael D. Rugg, University of Texas at Dallas, USA (S18 003)	<i>The Emerging Perceptual Representation Of Faces Decoded From Human Neuromagnetic Recordings</i> Thomas Carlson, Macquarie University, Australia (OP4 003)		
2.00pm – 2.20pm	<i>A Functional and Structural Network View of Task-Switching Dynamics in Ageing</i> Pauline Baniqued, University of Illinois at Urbana-Champaign, USA (S16 004)	<i>Racial Bias In Neural Empathy To Observed Pain</i> Ross Cunnington, The University of Queensland, Australia (S17 004)	<i>Effects of Age on the Balance Between Habitual and Goal-Directed Action</i> K. Richard Ridderinkhof, University of Amsterdam, Netherlands (S18 004)	<i>Effects Of Attention And Perceptual Uncertainty On Cerebellar Activity During Visual Motion Perception</i> Oliver Baumann, The University of Queensland, Australia (OP4 004)		
2.20pm – 2.30pm	Q&A	Q&A	Q&A	Q&A		
2.30pm – 3.00pm	Afternoon Tea with Exhibitors					
PLENARY SESSION						
3.00pm – 4.00pm	Plaza Auditorium – Chair: Frini Karayanidis					
	<b>KEYNOTE LECTURE 7</b> <i>Schizophrenia As A Cognitive Disorder: Insights From Cognitive Neuroscience</i> Emeritus Professor Pat Michie, University of Newcastle, Australia					
4.00pm – 6.00pm	<b>POSTER SESSION 3</b> Rooms P9, 10 & 11 (Combined)					
	<b>COGNITION &amp; EXECUTIVE PROCESSES</b>	<b>EMOTION &amp; SOCIAL PROCESSES</b>	<b>MEMORY &amp; LEARNING</b>	<b>METHODS DEVELOPMENT</b>	<b>MOTOR BEHAVIOUR</b>	<b>SENSATION &amp; PERCEPTION</b>
6.00pm till late	<b>ICON KICK ON</b> Dandy's Rooftop, The Fox Hotel, South Brisbane					



# PROGRAMME

## THURSDAY 31 JULY 2014

THURSDAY 31 JULY 2014				
PLENARY SESSION				
9.00am – 10.00am	Plaza Auditorium – Chair: Ross Cunnington			
	<b>KEYNOTE LECTURE 8</b> <b>Probabilistic Models Of Sensorimotor Control And Decision Making</b> <b>Professor Daniel Wolpert</b> , University of Cambridge, UK		Supported by	 <b>QBI</b> Queensland Brain Institute
10.00am – 10.30am	Morning Tea with Exhibitors			
CONCURRENT SESSIONS				
	<b>S19 - ECoG Signatures Of Human Cognition</b> Plaza Auditorium Chair: Josef Parvizi	<b>S20 - The Interplay Of Attention And Prediction In The Human Brain</b> Room P6 Chair: Marta Garrido	<b>S21 - Cognitive Modeling And Cognitive Neuroscience: A Symbiotic Relationship</b> Room P7 Chair: Renate Thienel	<b>OP5 - Motor, Social &amp; Emotional Processes</b> Room P8 Chair: Ross Cunnington
10.30am – 10.50am	<b>Combined ECoG, fMRI, And Electrical Brain Stimulation: A New Era For Localization Of Functions</b> <b>Josef Parvizi</b> , Stanford University, USA (S19 001)	<b>On The Role Of Expectation In Visual Perception: A Top-Down View Of Early Visual Cortex</b> Peter Kok, Donders Institute for Brain, Cognition and Behaviour, Netherlands (S20 001)	<b>Focal Striatum Lesions Impair Decision Threshold Adjustment In Humans</b> Professor <b>Birte Forstmann</b> , University of Amsterdam, Netherlands (S21 001)	<b>Neural Activity To Viewed Dynamic Gaze Is Affected By Social Decision</b> <b>Aina Puce</b> , Indiana University, USA (OP5 001)
10.50am – 11.10am	<b>ECoG Signature Of Large-Scale Functional Connectivity In The Brain</b> <b>Jean-Philippe Lachaux</b> , INSERM Lyon, France (S19 002)	<b>Expectation And Attention In Hierarchical Auditory Prediction</b> <b>Srivas Chennu</b> , University of Cambridge, UK (S20 002)	<b>Simultaneously Modeling The Cognitive And Neural Mechanisms Involving Different Types Of Expertise In Mental Rotation</b> <b>Alexander Provost</b> , University of Newcastle, Australia (S21 002)	<b>Re-Assessing The Pre-Attentive Nature Of Integrating Emotional Faces And Voices: An Event-Related Potential (ERP) Study</b> <b>Tam Ho</b> , Max Planck Institute for Human Cognitive and Brain Sciences, Germany (OP5 002)
11.10am – 11.30am	<b>The Past, The Present, And The Future Of ECoG</b> <b>Robert T. Knight</b> , University of California Berkeley, USA (S19 003)	<b>Effective Connectivity Reveals Right-Hemisphere Dominance In Audiospatial Perception: Implications For Models Of Spatial Neglect</b> <b>Marta I. Garrido</b> , University of Queensland, Australia (S20 003)	<b>Analyzing The Multimodal Signature Of Task-Unrelated Thoughts</b> <b>Matthias Mittner</b> , University of Amsterdam, Netherlands (S21 003)	<b>Neural Correlates Of The Attribution Of Agency For Self-Made And Others' Actions: The Role Of The Medial Portion Of The Anterior PFC In Attributing Expected Consequences To The Self</b> <b>Simmy Poonian</b> , The University of Queensland, Australia (OP5 003)
11.30am – 11.50am	11.30am – 11.40am Q&A	<b>Attention For Learning: The Striatal Cholinergic System In Reward-Based Learning</b> <b>Angela J. Langdon</b> , Princeton University, USA (S20 004)	<b>Age-Related Changes In White Matter Pathways Underlying Response Threshold Adjustment</b> <b>Renate Thienel</b> , University of Newcastle, Australia (S21 004)	<b>Functional Segregation Of Self And Other In Joint Action. A Dual-EEG Study With Piano Duos</b> <b>Giacomo Novembre</b> , University of Western Sydney, Australia (OP5 004)
11.50am – 12.00pm		Q&A	Q&A	Q&A
12.00pm – 1.00pm	Lunch at Leisure			

This Conference Programme is correct at the time of printing, however, the Organising Committee reserves the right to alter the Programme if necessary.





# PROGRAMME

## THURSDAY 31 JULY 2014

THURSDAY 31 JULY 2014				
CONCURRENT SESSIONS				
	S22 - Cognition And Connectomics	S23 - Formal Theories Of Dorsal Anterior Cingulate Cortex Function	S24 - Prediction In Perception	OP6 - Attention
	Plaza Auditorium	Room P6	Room P7	Room P8
	<b>Co-Chairs:</b> Alex Fornito & Michael Breakspear	<b>Chair:</b> Clay Holroyd	<b>Co-Chairs:</b> Juanita Todd & Robert O'Shea	<b>Chair:</b> Pat Michie
1.00pm – 1.20pm	<b>Transitory Networks Supporting Cognitive Control</b> Luca Cocchi, Queensland Brain Institute, Australia (S22 001)	<b>E Cingulus Pluram: Multiple Computational Roles Of Anterior Cingulate Activity</b> William H. Alexander, Gent University, Belgium (S23 001)	<b>We Make Predictions About Eye Of Origin Of Visual Input: Visual Mismatch Negativity From Binocular Rivalry</b> Robert P. O'Shea, Southern Cross University, Australia (S24 001)	<b>tDCS Of Prefrontal Cortex Improves Multitasking</b> Hannah Filmer, The University of Queensland, Australia (OP6 001)
1.20pm – 1.40pm	<b>Connectomic Methods For Functional Imaging</b> Andrew Zalesky, University of Melbourne, Melbourne, Australia (S22 002)	<b>Dorsal Anterior Cingulate Cortex And The Adaptive Regulation Of Reinforcement Learning Parameters: Neurophysiology, Model And Robotic Implementation</b> Mehdi Khamassi, CNRS Paris, France (S23 002)	<b>Prediction Of Vision From Invisible Stimuli</b> Bradley N. Jack, Southern Cross University, Australia (S24 002)	<b>Task Demands Modulate The Effects Of Perceptual Expectations In Early Visual Cortex</b> Elexa St. John-Saaltink, Radboud University Nijmegen, Netherlands (OP6 002)
1.40pm – 2.00pm	<b>How Brain Structure Constrains Brain Function</b> Olaf Sporns, Indiana University, USA (S22 003)	<b>Anterior Cingulate Cortex And The Expected Value Of Control</b> Amitai Shenhav, Princeton University, USA (S23 003)	<b>When Auditory Mismatch Negativity Deviates From Simple Probabilistic Inference</b> Juanita Todd, University of Newcastle, Australia (S24 003)	<b>Temporal Expectation Improves Real-Time Decoding Of Visual Feature Representations as Measured By Magnetoencephalography</b> Nicholas Myers, University of Oxford, UK (OP6 003)
2.00pm – 2.20pm	<b>Multi-Task Functional Connectivity And Flexible Hubs</b> Michael W Cole, Rutgers University, USA (S22 004)	<b>Hierarchical Control Over Effortful Behavior By Dorsal Anterior Cingulate Cortex</b> Clay Holroyd, University of Victoria, Canada (S23 004)	<b>Neural Entrainment During Musical Rhythm Perception Is Correlated With Individual Differences In Temporal Prediction During Sensorimotor Synchronization</b> Peter Keller, University of Western Sydney, Australia (S24 004)	<b>Interactive Effects of Task Set and Working Memory on Attentional Capture</b> Oscar Jacoby, The University of Queensland, Australia (OP6 004)
2.20pm – 2.30pm	Q&A	Q&A	Q&A	Q&A
2.30pm – 3.00pm	Afternoon Tea with Exhibitors			
PLENARY SESSION				
3.00pm – 3.30pm	Plaza Auditorium – Chair: Jason Mattingley (ACNS President)			
	<b>ACNS YOUNG INVESTIGATOR LECTURE</b> <b>Mapping Context-Dependent Changes In Brain Functional Networks Using Event-Related Graph Analysis</b> Associate Professor Alex Fornito, Monash University, Australia		Supported by 	
3.30pm – 4.30pm	Plaza Auditorium – Chair: Richard Ridderinkhof			
	<b>KEYNOTE LECTURE 9</b> <b>The Role Of The Subthalamic Nucleus In Strategic Decision-Making: A Model-Based Approach</b> Professor Birte Forstmann, University of Amsterdam, Netherlands		Supported by 	
4.30pm – 5.30pm	<b>CLOSING ADDRESS</b> Associate Professor Frini Karayanidis, University of Newcastle, Australia			