



12th International Conference on Cognitive Neuroscience

Brisbane, Australia 27-31 July, 2014



www.icon2014.org

Sunday 27 July 2014

1:00 pm - 7:30 pm

Registration Desk Open

Plaza Level, BCEC on Grey

5:30 pm - 6:00 pm

OPENING ADDRESS

Plaza Auditorium

6:00 pm - 7:00 pm

KEYNOTE LECTURE 1

Plaza Auditorium

Professor Jason Mattingley, University of Queensland, Australia

7:00 pm - 8:30 pm

Welcome Reception

Exhibition Area

Monday 28 July 2014

9:00 am - 10:00 am

KEYNOTE LECTURE 2

Plaza Auditorium

Professor Russell A Poldrack, University of Texas, USA

10:00 am - 10:30 am

Morning Tea

Exhibition Area

10:30 am - 12:00 pm

12:00 pm - 1:00 pm

Lunch

At leisure

1:00 pm - 2:30 pm

**S04 - The Role of Brain
Oscillations in Perception,**

**S05 - Neural Indices Of Primitive S06 - Cross-Modal Integration
Intelligence: From The Midbrain And Plasticity Of Sensory**

**D01 - Translational Cognitive
Neuroscience: Understanding**

Attention, and Memory

Plaza Auditorium
 Simon Hanslmayr, University of
 Birmingham, UK
 Denes Szucs, University of
 Cambridge, UK
 Nicholas Myers, University of
 Oxford, UK
 Simon Hanslmayr, University of
 Birmingham, UK

To Cortex

Room P6
 Co-Chair: Professor Pat Michie,
 University of Newcastle, Australia
 Co-Chair & Speaker: Manuel S.
 Malmierca, University of
 Salamanca, Spain
 Sabine Grimm, University of
 Barcelona, Spain
 Lauren Harms, University of
 Newcastle, Australia
 Risto Näätänen, University of
 Aarhus, Denmark

**Systems In The Normal And
Peripherally Deprived Brain**

Room P7
 Chair: Franco Lepore, University of
 Montréal, Canada
 Krish Sathian, Emory University,
 USA
 Stephen G. Lomber, University of
 Western Ontario, Canada
 Amir Amedi, Hebrew University
 Jerusalem

**Attention And Multitasking On
The Roadway**

Room P8
 David Strayer, University of Utah,
 USA
 Paul Atchley, University of Kansas,
 USA
 Jason McCarley, Flinders
 University, Australia

2:30 pm - 3:30 pm

KEYNOTE LECTURE 3

Plaza Auditorium
 Professor Michael C. Corballis, University of Auckland, New Zealand

3:30 pm - 4:00 pm

Afternoon Tea

Exhibition Area

4:00 pm - 6:00 pm

POSTER SESSION 1

Rooms P9, 10 & 11 (Combined)

Tuesday 29 July 2014

9:00 am - 10:00 am

KEYNOTE LECTURE 4

Plaza Auditorium
 Professor Olaf Sporns KEY004, Indiana University, USA

10:00 am - 10:30 am

Morning Tea

Exhibition Area

10:30 am - 12:00 pm

**S07 - Understanding High-Level
 Vision, Attention And Decision
 Making By Means Of Frequency-
 Tagging EEG**

Plaza Auditorium
 Chair: Bruno Rossion, University of
 Louvain, Belgium
 Professor Jason Mattingley,
 University of Queensland,
 Australia
 Bruno van Swinderen, Queensland
 Brain Institute, Australia
 Redmond O'Connell, Trinity
 College Dublin, Ireland

S08 - The Dynamic Brain

Room P6
 Claudio R. Mirasso, Institute for
 Cross-Disciplinary Physics and
 Complex Systems, Spain
 Luis M. Martinez, Institute of
 Neuroscience, Alicante, Spain
 Chair: Leonardo L. Gollo,
 Queensland Institute for Medical
 Research, Australia
 Michael Breakspear, Queensland
 Institute for Medical Research,
 Australia

**S09 - New Approaches To The
 Neural Basis Of Mathematical
 Cognition**

Room P7
 Chris Clark, University College
 London, UK
 Carlo Semenza, University of
 Padova, Italy
 Teresa Iuculano, Stanford
 University, USA
 Chair: Brian Butterworth,
 University College London, UK

**OP2 - Cognition, Memory &
 Learning**

Room P8
 Matar Haller, University of
 California, Berkeley, USA
 Britta Worringer, RWTH Aachen
 University, Germany
 Corinna Haenschel, City University
 London, UK
 Catherine Wacogne, INSERM,
 France

12:00 pm - 1:00 pm

Lunch

At leisure

1:00 pm - 2:30 pm

S10 - TMS And TDCS As A Tool In Cognitive Neuroscience: How Does Transcranial Stimulation Influence Behavior?

Plaza Auditorium
Michael A. Nitsche, University Medical Center Goettingen, Germany
Carlo Miniussi, University of Brescia & IRCCS Centro San Giovanni di Dio Fatebenefratelli, Italy
Chair: Hartwig R. Siebner, Copenhagen University Hospital Hvidovre, Denmark

S11 - The Menzies Foundation Symposium: A Window Into Normal Cognition: Insights From Synaesthesia

Room P6
David Brang, University of Chicago, USA
Kate Bankieris, University of Rochester, USA
Derek Arnold, The University of Queensland, Australia
Chair: Anina N. Rich, Macquarie University, Australia

S12 - Working Memory 2014: 40 Years On Since Baddeley & Hitch

Room P7
Nahid Zokaei, University of Oxford, UK
Chair: Eva Feredoes, University of Reading, UK
Mathilde Bonnefond, Radboud University, Netherlands
Yoni Pertzov, Hebrew University, Jerusalem

D02 - How Do We Improve Medical Translation? Developing Translational Approaches Towards Exploring Cognitive And Behavioural Endophenotypes In Animal Models Of Disease

Room P8
Jess Nithianantharajah, University of Edinburgh, UK
Anthony J Hannan, Florey Institute of Neuroscience and Mental Health, Australia
Caitlin E McOmish, Columbia University Medical Center, USA

2:30 pm - 3:30 pm

KEYNOTE LECTURE 5

Plaza Auditorium
Professor Heidi Johansen-Berg, University of Oxford, UK

3:30 pm - 4:00 pm

Afternoon Tea

Exhibition Area

4:00 pm - 6:00 pm

POSTER SESSION 2

Rooms P9, 10 & 11 (Combined)

7:00 pm - 10:00 pm

CONFERENCE DINNER

Riverlife Kangaroo Point

Wednesday 30 July 2014

9:00 am - 10:00 am

KEYNOTE LECTURE 6

Plaza Auditorium
Professor Stanislas Dehaene, Collège de France, Paris, France

10:00 am - 10:30 am

Morning Tea

Exhibition Area

10:30 am - 12:00 pm

S13 - Segregation And Integration Of Cortical Laminar Information Streams And Their Role In Attention

Plaza Auditorium
Markus Barth, The University of Queensland, Australia
Saskia Haegens, Columbia University, USA
René Scheeringa, Donders

S14 - Consciousness, Integrated Information And The Free Energy Principle

Room P6
Jakob Hohwy, Monash University, Australia
Guilio Tononi, University of Wisconsin, USA
Anil Seth, University of Sussex, UK
Naotsugu Tsuchiya, Monash

S15 - Task Set Representation And Updating: Aging, Training And Reward Motivation

Room P7
Frini Karayanidis, University of Newcastle, Australia
Jutta Kray, Saarland University, Germany
Hannah Schmitt, Saarland University, Germany

OP3 - Language

Room P8
Daniela Sammler, Max Planck Institute for Human Cognitive and Brain Sciences, Germany
Fahimeh Darki, Karolinska Institute, Sweden
Ghislaine Dehaene-Lambertz, INSERM U992, France
Julie Tremblay, Ste-Justine

Institute for Brain, Cognition and Behaviour, Netherlands Andre M. Bastos, Ernst Strüngmann Institute (ESI) for Neuroscience, Germany	University, Australia	Jo Etzel, Washington University, USA	Hospital Research Center, Canada
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12:00 pm - 1:00 pm

Lunch

At leisure

1:00 pm - 2:30 pm

S16 - Brain Processes Associated With Cognitive Control

Plaza Auditorium

Diane M. Beck, University of

Illinois at Urbana-Champaign, USA

Paul M. Corballis, University of Auckland, NZ

Gabriele Gratton, University of Illinois at Urbana-Champaign, USA

Pauline Baniqued, University of Illinois at Urbana-Champaign, USA

Afternoon Tea

Exhibition Area

KEYNOTE LECTURE 7

Plaza Auditorium

Professor Pat Michie, University of Newcastle, Australia

POSTER SESSION 3

Rooms P9, 10 & 11 (Combined)

S17 - Sensorimotor Foundations Of Understanding And Interacting With Others

Room P6

Paola Sessa, University of

Padova, Italy

Pascal Molenberghs, University of Queensland, Australia

Emily Cross, Bangor University, UK

Ross Cunnington, University of Queensland, Australia

S18 - Mechanisms Of Cognitive Decline In Normal Aging

Room P7

Axel Mecklinger, Saarland

University, Germany

Shulan Hsieh, National Cheng

Kung University, Taiwan

Michael D. Rugg, University of Texas, USA

K. Richard Ridderinkhof, University of Amsterdam, The Netherlands

OP4 - Sensation & Perception

Room P8

Auréliane Pajani, Laboratoire de

Sciences Cognitives &

Psycholinguistique, Ecole Normale

Supérieure - CNRS, France

Simon van Gaal, University of

Amsterdam, Netherlands

Thomas Carlson, Macquarie

University, Australia

Oliver Baumann, The University of Queensland, Australia

2:30 pm - 3:00 pm

3:00 pm - 4:00 pm

4:00 pm - 6:00 pm

Thursday 31 July 2014

9:00 am - 10:00 am

KEYNOTE LECTURE 8

Plaza Auditorium

Professor Daniel Wolpert, University of Cambridge, UK

10:00 am - 10:30 am

Morning Tea

Exhibition Area

10:30 am - 12:00 pm

S19 - ECoG Signatures Of Human Cognition

Plaza Auditorium

Josef Parvizi, Stanford University, USA

Jean-Philippe Lachaux, INSERM Lyon, France

Robert T. Knight, University of California Berkeley, USA

S20 - The Interplay Of Attention And Prediction In The Human Brain

Room P6

Peter Kok, Donders Institute for Brain, Cognition and Behaviour, Netherlands

Srivas Chennu, University of Cambridge, UK

S21 - Cognitive Modeling And Cognitive Neuroscience: A Symbiotic Relationship

Room P7

Professor Birte Forstmann, University of Amsterdam, The Netherlands

Alexander Provost, University of Newcastle, Australia

OP5 - Motor, Social & Emotional Processes

Room P8

Aina Puce, Indiana University, USA

Tam Ho, Max Planck Institute for Human Cognitive and Brain Sciences, Germany

Simmy Poonian, The University of

		Marta I. Garrido, University of Queensland, Australia Angela J. Langdon, Princeton University, USA	Matthias Mittner, University of Amsterdam, The Netherlands Chair & Speaker: Renate Thienel, University of Newcastle, Australia	Queensland, Australia Giacomo Novembre, The Marcs Institute, University of Western Sydney, Australia
12:00 pm - 1:00 pm	Lunch At leisure			
1:00 pm - 2:30 pm	S22 - Cognition And Connectomics Plaza Auditorium Luca Cocchi, Queensland Brain Institute, Australia Andrew Zalesky, University of Melbourne, Melbourne, Australia. Professor Olaf Sporns, Indiana University, USA Michael W Cole, Rutgers University, USA	S23 - Formal Theories Of Dorsal Anterior Cingulate Cortex Function Room P6 William H. Alexander, Universiteit Gent, Belgium Mehdi Khamassi, CNRS Paris, France Amitai Shenhav, Princeton University, USA Clay Holroyd, University of Victoria, Canada	S24 - Prediction In Perception Room P7 Robert P. O'Shea, Southern Cross University, Australia Bradley N Jack, Southern Cross University, Australia Juanita Todd, University of Newcastle, Australia Peter Keller, University of Western Sydney, Australia	OP6 - Attention Room P8 Hannah Filmer, The University of Queensland, Australia Elexa St. John-Saaltink, Radboud University Nijmegen, Netherlands Nicholas Myers, University of Oxford, UK Oscar Jacoby, The University of Queensland, Australia
2:30 pm - 3:00 pm	Afternoon Tea Exhibition Area			
3:00 pm - 3:30 pm	ACNS INVESTIGATOR LECTURE Plaza Auditorium Alex Fornito, Deputy Director, Monash Clinical & Imaging Neuroscience, Monash University			
3:30 pm - 4:30 pm	KEYNOTE LECTURE 9 Plaza Auditorium Professor Birte Forstmann, University of Amsterdam, The Netherlands			
4:30 pm - 5:30 pm	CLOSING ADDRESS Plaza Auditorium			