



ARTIFICIAL & BIOLOGICAL COGNITION

7th Cambridge Neuroscience Symposium

12th-13th September 2019 - Cambridge, UK

UNIVERSITY OF
CAMBRIDGE

CAMBRIDGE
NEUROSCIENCE

#ABC2019

Symposium Day One: Thursday 12th September 2019

08:00-09:00 Registration and coffee

Opening of the Symposium:

Welcome by **Professor Ole Paulsen**

09:00-09:10 Opening address from **Professor Andy Neely**
Pro-Vice-Chancellor for Enterprise & Business Relations

Chair: **Professor Angela Roberts**, Department of Physiology, Development & Neuroscience

09:10-09:50 **The Alan Hodgkin Plenary Lecture**
Dr Demis Hassabis, DeepMind

09:50-10:20 **Professor Wolfram Schultz**
Department of Physiology, Development & Neuroscience, Cambridge

10:20-10:50 Refreshments

Session One: Reinforcement Learning

Chair: **Professor Matt Botvinick**, DeepMind

10:50-11:20 **Professor Satinder Singh**
Department of Electrical Engineering & Computer Science,
University of Michigan

11:20-11:50 **Professor Geoffrey Schoenbaum**
National Institute of Drug Abuse

11:50-12:20 **Dr Carl Edward Rasmussen**
Department of Engineering, University of Cambridge

12:20-12:50 Data blitz

12:50-14:30 Lunch, Poster Session and Trade Exhibition

Session Two: Navigation

Chair: **Dr Stephen Eglen**, Department of Applied Maths and Theoretical Physics

14:30-15:00 **Dr Andrea Banino**
DeepMind, London

15:00-15:30 **Dr Julija Krupic**
Department of Physiology, Development & Neuroscience, Cambridge

15:30-16:00 **Professor Nachum Ulanovsky**
Department of Neurobiology, Weizmann Institute of Science, Israel

16:00-16:30 Refreshments

Session Three: Robotics

Chair: **Dr Adrian Weller**, Department of Engineering

16:30-17:00 **Professor Leslie Kaelbling**
Department of Electrical Engineering and Computer Science, Massachusetts
Institute of Technology

17:00-17:30 **Professor Barbara Webb**
Institute for Perception, Action and Behaviour, University of Edinburgh

17:30-18:00 **Dr Hatice Gunes**
Department of Computer Science & Technology, University of Cambridge

18:30-19:30 Reception at Trinity College, Cambridge

19:30-22:00 Conference dinner at Trinity College, Cambridge



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Symposium Day Two: Friday 13th September 2019

09:00-09:30 Registration and coffee

Session Four: Vision

Chair: **Professor Zoe Kourtzi**, Department of Psychology

09:30-10:00 **Professor Anthony Movshon**

Center for Neural Science, New York University

10:00-10:30 **Dr Andrew Welchman**

Department of Psychology, University of Cambridge/Wellcome Trust

10:30-11:00 **Dr Jasper Poort**

Department of Psychology, University of Cambridge

11:00-11:30 **Professor Anya Hurlbert**

Institute of Neuroscience, Newcastle University

11:30-12:00 Refreshments

Session Five: Communication

Chair: **Dr Paula Buttery**, Department of Computer Science & Technology

12:00-12:30 **Dr Marco Baroni**

Facebook Research

12:30-13:00 **Professor Lorraine Tyler**

Department of Psychology, University of Cambridge

13:00-13:40 **The Andrew Huxley Plenary Lecture**

Professor Catherine Dulac

Department of Molecular and Cellular Biology, Harvard University

13:40-15:00 Lunch, Poster Session and Trade Exhibition

Session Six: Mental Health

Chair: **Professor Ed Bullmore**, Department of Psychiatry

15:00-15:30 **Professor Michael Browning**

Department of Psychiatry, University of Oxford

15:30-16:00 **Dr Hannah Clarke**

Department of Physiology, Development & Neuroscience, Cambridge

16:00-16:30 **Professor Paul Fletcher**

Department of Psychiatry, University of Cambridge

16:30-17:00 Refreshments

Session Seven: Neuroethics of Artificial Intelligence in Neuroscience (open to public)

Convenor: **Professor Barbara Sahakian**

Department of Psychiatry, University of Cambridge

17:00-18:30 Panel members:

Mr Tom Feilden

Science & Environment Editor, Today Programme, BBC Radio 4

Professor Ann Copstake

Department of Computer Science & Technology, University of Cambridge

Dr Karina Vold

Leverhulme Centre for the Future of Intelligence, University of Cambridge

Professor Bill Byrne

Department of Engineering, University of Cambridge

18:30-19:30 Drinks reception, Foyer West Road Concert Hall