

TCIN 20th Anniversary Symposium

Dates: 5th & 6th March, 2020

Location : Lecture Theatre, LB11, Lloyd Building, Trinity College Dublin

Thursday March 5th Afternoon

4:30-5:15 pm **Welcome and Introduction**

4.30: Anniversary Symposium Programme and Schedule

Andrew Harkin, Deputy Director, TCIN

Associate Professor in Pharmacology, School of Pharmacy & Pharmaceutical Sciences

4.35: Welcome Address

Patrick Cunningham, Non-Executive Chairman TCIN Board

Professor of Animal Genetics & Former Chief Scientific Adviser to the Irish Government

4.40: Provost's Address

Patrick Prendergast

Provost, Trinity College Dublin

4.45: TCIN 2020

Mani Ramaswami, Director, TCIN

Professor of Neurogenetics, School of Genetics & Microbiology & School of Natural Sciences

5.10: Introduction to Pete Humphries, Keynote speaker by

Jane Farrar, Professor, Department of Genetics

5:15-6:00 pm **Keynote lecture, Pete Humphries**

"On Prevention of Blindness: in Footsteps of Jacob and Wilde".

Pete Humphries, Professor of Medical Molecular Genetics,

Department of Genetics

6:00-6:45 pm **Reception (Lloyd Building)**

Friday March 6th

Session 1 Neurodegeneration Mechanisms & Interventions

09:00 Introduction by Chair of the session

Maeve Caldwell, Professor in Neuroscience, Department of Physiology, School of Medicine & TCIN

09:05 Eyes, ears and mind: Linking ageing-relating hearing, vision and cognitive decline

Iracema Leroi, Associate Professor of Geriatric Psychiatry, and Faculty Global Brain Health Institute, Trinity College Dublin

09:25 Inflammation in the injured brain: Lessons learned from microglial-depletion models

David Loane, Research Assistant Professor, School of Biochemistry and Immunology, Trinity College Biosciences Institute & TCIN

09:45 Dysfunctional soluble A β and τ : Partners in synaptic crime?

Michael Rowan, Professor of Neuropharmacology, Department of Pharmacology and Therapeutics, School of Medicine & TCIN

10:05 Mechanisms to medicines in neurodegeneration

Giovanna Malluci, van Geest Professor of Clinical Neurosciences and Associate Director of the UK Dementia Research Institute at the University of Cambridge

10:35- 10: 55am Coffee

Session 2 Psychiatry and Clinical Neuroscience

10:55 Introduction by Chair of the session

Clare Kelly, Ussher Assistant Professor of Functional Neuroimaging, School of Psychology & Department of Psychiatry, School of Medicine & TCIN

11:00 Glutamate and brain tumour related epilepsy: opportunities for precision medicine based treatments?

Mark Cunningham, Ellen Mayston Bates Professor of Neurophysiology of Epilepsy, Department of Physiology, School of Medicine & TCIN

11:20 A novel brain-computer interface to regulate the state of motor pathways following stroke

Kathy Ruddy, Research Assistant Professor, School of Psychology & TCIN

11:40 Psychotic experiences in childhood: meanings and mechanisms

Mary Cannon, Professor of Psychiatric Epidemiology and Youth Mental Health, Department of Psychiatry, Royal College of Surgeons in Ireland & TCIN

12:00 Neuroimaging in the era of big data

Hugh Garavan, Professor of Psychology/Psychiatry, Department of Psychological Science, The University of Vermont

12:30- 1:30pm Lunch

Session 3 Neural Systems and Behaviour

- 13:30 **Introduction by Chair of the session**
Fiona Newell, Professor of Experimental Psychology, School of Psychology & TCIN
- 13:35 **Transdiagnostic approaches to understanding cognitive underpinnings of mental health and illness**
Claire Gillan, Assistant Professor in Psychology, School of Psychology, Faculty Global Brain health Institute & TCIN
- 13:55 **The Evolution and Development of Memory Engrams**
Tomas Ryan, Associate Professor in Biochemistry, School of Biochemistry and Immunology & TCIN
- 14:15 **Why are humans helpless for so long during infancy?**
Rhodri Cusack, Thomas Mitchell Professor of Cognitive Neuroscience, School of Psychology & TCIN
- 14:35 **The construction of value: from food to the aesthetic appreciation of art.**
John O'Doherty, Professor of Psychology, Division of the Humanities and Social Sciences, California Institute of Technology

15:05- 15:20pm Coffee

Session 4 New Expansions and Connections

- 15:20 **Introduction by Chair of the session**
Andrew Harkin, Associate Professor in Pharmacology, School of Pharmacy and Pharmaceutical Sciences & Deputy Director TCIN
- 15:25 **Children's brain health**
Trevor Spratt, AIB Professor in Childhood Research, School of Social Work and Social Policy, Director of Trinity Research in Childhood Centre
- 15:40 **Neurohumanities initiative**
Introduction by Mani Ramaswami, Professor of Neurogenetics & Director, TCIN
With contributions from:
Jane Ohlmeyer, Erasmus Smith's Professor of Modern History, Department of History and Director of the Trinity Long Room Hub
Nicholas Johnson, Assistant Professor of Drama, Samuel Beckett Centre, School of Creative Arts
Veronica O'Keane, Professor in Psychiatry, Department of Psychiatry, School of Medicine & TCIN
- 15:55 **Connecting Neuroscience, Neural Engineering and Medicine**
Richard Reilly, Research Chair of Neural Engineering, Centre for Bioengineering & TCIN.
- 16:15 **Connecting across disciplines – Global Brain Health Institute**
Ian Robertson, emeritus Professor of Psychology, Co-Director Global Brain Health Institute (GBHI)
Brian Lawlor, Norman Professor of Old Age Psychiatry, Co-Director of GBHI

17:00pm Conclusion and Close