



Laboratory of Molecular Biology and University of Cambridge Symposium BRAIN CONNECTOMICS THROUGHOUT THE LIFE OUTCOME

Tuesday 25th January 2022 10.00am – 5.00 pm.

MRC Laboratory of Molecular Biology Francis Crick Avenue, Cambridge Biomedical Campus

9.15-9.45	Registration, tea and coffee
10.00-10.20	Welcome introduction: Professor Patrick Chinnery and Professor Jan Löwe.
	Chair: Professor Patrick Chinnery Developing Brain
10.20-10.40	Dr Jelle van den Ameele – Connecting neural stem cells with their niche: a role for mitochondrial metabolism?
10.40-11.00	Dr Duncan Astle -Simulating connectome growth in childhood.
11.00-11.20	Dr Radu Aricescu – Molecular bridges across the synaptic cleft.
11.20-11.40	Dr Marta Zlatic - Circuits for learning, predicting, and deciding.
11.40-12.00	Professor Ole Paulsen – Development of neuronal network topology in vitro.
12.00-12.45	LUNCH
	Chair: Professor Ed Bullmore Maturing Brain
12.45-1.05	Dr William Schafer - Extrasynaptic neuronal connectomes.
1.05-1.25	Dr Petra Vertes – Common organisational principles in the brain – from <i>C. elegans</i> to human connectomes.
1.25-1.45	Dr Greg Jefferis - Comparing cellular connectomes.
1.45-2.05	Dr Luca Peruzotti-Jametti – Characterisation and manipulation of succinate-dependent injury in chronic neuroinflammation.
2.05- 2.25	Dr Edward Avezov - Neurite outgrowth control by innate machinery for modulation of transport through the Endoplasmic Reticulum network.
2.25-2.45	Dr Tim Rittman – Connectivity in neurodegenerative tauopathies – understanding disease across the whole brain.
2.45-3.20	BREAK
	Chair: Dr Michael Hastings Ageing Brain
3.20-3.40	Dr Andras Lakatos - What did organoids do for us? - discoveries at single cell resolution in neurodegeneration.
3.40-4.00	Professor James Rowe - Lifespan brain connectivity from fMRI and MEG: lessons from CamCAN.
4.00-4.20	Dr Will McEwan - Immunotherapy against tau in neurodegenerative disease.
4.20-4.40	Dr Michel Goedert – Cryo-EM structures of amyloid filaments from brain.

Closing Remarks: Professor Jan Löwe



4.45

