

Understanding neuronal processes at multiple scales - key questions and new approaches

Coordinated by **Matthew Gold** and **Andres Ramos**

On **Wednesdays** from **1-2pm** – venues tbc

25 th September 2024	<i>“Engineering” Neuroscience: combining bioengineering, stem cells technologies and in vitro modelling to better understand neurodegeneration</i> Dr Andrea Serio, The Francis Crick Institute, UK Host: Prof. Andres Ramos
2 nd October 2024	<i>New approaches to understanding and targeting the brain’s greatest gatekeeper: the GABA-A receptor</i> Dr Paul Miller, University of Cambridge, UK Host: Prof. Matthew Gold
9 th October 2024	<i>ERK activation waves coordinate the mechanical cell competition that leads to collective onslaught of bacterially-infected epithelial cells</i> Dr Effie Bastounis, Tübingen University, Germany Host: Dr Brian Ho
16 th October 2024	<i>Totally wired: amping up the de novo design of bioenergetic protein components</i> Prof. Ross Anderson, University of Bristol, UK Host: Prof. Amandine Maréchal
23 rd October 2024	<i>High resolution structures from within the mammalian brain cryo-electron tomography</i> Dr René Frank, University of Leeds, UK Host: Prof. Matthew Gold
30 th October 2024	<i>Noncoding functions of mammalian RNAs in development and disease</i> Prof. Eugene Makeyev, Kings College London, UK Host: Prof. Andres Ramos
6 th November 2024	<i>Integrating imaging and omics data with AI to decode neurodegenerative disorders</i> Dr Raphaëlle Luisier, Idiap Research Institute, Switzerland Host: Prof. Andres Ramos
13 th November 2024	<i>New insights into the molecular anatomy and dynamics of excitatory synapses</i> Dr Harold MacGillavry, University of Utrecht, The Netherlands Host: Prof. Matthew Gold
20 th November 2024	<i>The neuropeptidergic connectome</i> Dr William Schafer, MRC Laboratory of Molecular Biology, Cambridge, UK Host: Prof. Matthew Gold
27 th November 2024	<i>Manipulation of protein quality control systems: from the bench to the clinic and back</i> Dr Anne Bertolotti, MRC Laboratory of Molecular Biology, Cambridge, UK Host: Prof. Andres Ramos
4 th December 2024	<i>Regulating RNA in space and time in memory circuits</i> Dr Florence Besse, Institut de Biologie Valrose, France Host: Prof. Andres Ramos
11 th December 2024	TBC TBC Host: UCL Postdocs – Neeladri Sen, Georgina Charlton, Maria Tossounian
