**Synaptopathies Symposium**

Friday 20 September 2019

UCL Institute of Neurology

33 Queen Square lecture theatre

**Programme**

**8.25 Registration, coffee**

9.00 Dimitri Kullmann (UCL): Introduction

(Chair: Sanjay Sisodiya)

9.05 **Matt Hurles** (Sanger) *Deciphering the genetics of neurodevelopmental diseases*

9.40 **Lucia Sivilotti** (UCL) *Glycine receptor function in startle disease (hyperekplexia)*

10.15 **Stephen Tucker** (Oxford): *New Insights into K2P channel structure, function and pharmacology*

**10.50 Coffee break**

(Chair: Peter Goadsby)

11.15 **Mark Farrant** (UCL) *Calcium-permeable AMPARs and their modulation by auxiliary subunits*

11.50 **Radu Ariescu** (LMB): *Molecular mechanisms of human GABAA receptor modulation by pharmacological agents*

12.25 **Trevor Smart** (UCL) *Variant GABA-A receptor assembly and epilepsy*

**13.00 Lunch & Posters**

(Chair: Henry Houlden)

14.00 **Fabio Benfenati** (IIT Genoa) *Synapsin genes: from bathing epilepsy to autoimmune synaptopathies*

14.35 **Sarosh Irani** (Oxford): *Clinical and laboratory observations inform molecular mechanisms of autoantibodies affecting the CNS*

15.10 **Stephen Brickley** (Imperial College): *Changes in synaptic function in age-related cognitive decline*

**15.45 Tea break**

(Chair: Kirill Volynski)

16.10 **Matt Jones** (Bristol) *Thalamocortical dysfunction in neurodevelopmental disorders.*

16.45 **Emily Osterweil** (Edinburgh) *TRAP-seq identifies novel signatures of translation dysregulation in mouse models of autism*

17.20 **Karl Friston** (UCL) *Dynamic causal modelling of synaptopathy*

17.55 **Closing Comments**

**18.00 Reception**

Supported by a Wellcome Strategic Award – *Synaptopathies: genetics, biophysics and circuit mechanisms of paroxysmal neurological disorders*

To attend please register through the UCL Eventbrite page, accessible via:

**www.ucl.ac.uk/ion/synaptopathies/meetings**