Leonard Wolfson Experimental Neurology Centre
Annual Symposium

Neurodegeneration: using genetics to understand pathogenesis and facilitate early diagnosis

2 March, 2016
9.30 am – 5.20 pm with reception to follow
33 Queen Square, Institute of Neurology, WC1N 3AR

9.30-9.45 Coffee

9.45-10.00 Nick Fox, Co-PI, LWENC
Welcome & Introduction to LWENC

Morning Session chaired by Nick Wood & Helene Plun-Favreau

10.00-10.20 Huw Morris, Institute of Neurology, UCL
Genetic analysis in clinical cohorts for PD and atypical parkinsonian syndromes

10.20-10.40 Lesley Jones, Institute of Psychological Medicine & Clinical Neurosciences, Cardiff University
Genetic Modifiers of Huntington's disease

10.40-11.00 Pietro Fratta, Institute of Neurology, UCL
Amyotrophic lateral sclerosis, TDP43 and RNA dysregulation

11.00-11.20 Rickie Patani, Institute of Neurology, UCL
A stem cell-based human toolkit for modelling neurodegeneration in a dish

11.20-11.40 Stephen Mullin, LWENC Clinical Fellow, UCL
Seeing the wood through the trees: Which GBA mutation carriers get Parkinson’s disease, when and why?

11.40 -12.00 Andre Altmann, Department of Medical Physics and Biomedical Engineering, UCL
Images and Genes: Imaging Genetics in Alzheimer’s Disease

12.00-1.30 Lunch & Poster Session
**Afternoon Session 1 chaired by Cath Mummery & Rimona Weil**

1.30-1.50 Rita Guerreiro, Institute of Neurology, UCL  
*Genetic prediction in Alzheimer’s disease*

1.50-2.10 Mina Ryten, Institute of Neurology, UCL  
*Using transcriptomics to improve the understanding of neurodegenerative disorders*

2.10-2.30 Jose Bras, Institute of Neurology, UCL  
*A comprehensive assessment of benign genetic variability for neurodegenerative diseases*

2.30-2.50 Emmanuel Asante, Institute of Neurology, UCL  
*Natural genetic variation gives complete resistance in prion diseases*

2.50-3.10 Jill Walton, Institute of Neurology, UCL  
*Rare Dementia Support: familial AD and FTD support groups*

3.10-3.40 *Break & Poster Session*

**Afternoon Session 2 chaired by Sonia Gandhi**

3.40-4.00 Tim Hubbard, Department of Medical & Molecular Genetics, KCL  
*The 100,000 genomes project: impact on diagnosis and understanding of disease*

4.00-4.20 Aroon Hingorani, Institute of Cardiovascular Sciences, UCL  
*From genes to medicines*

4.20-4.40 Alastair Noyce, Institute of Neurology, UCL  
*PREDICT-PD: An update on progress*

**Keynote chaired by John Hardy**

4.40-4.45 John Hardy, co-PI, LWENC  
*Introduction of keynote speaker*

4.45-5.15 Karl Stefansson, Chief Executive Officer of deCODE genetics  
*Genetics of Common/Complex Traits*

5.15-5.20 Alan Thompson, co-PI, LWENC  
*Closing remarks*

*Reception with refreshments*