30th HEAD GROUP MEETING
Understanding Normal and Abnormal Development of Head Structures

29-30th January 2018
UCL Great Ormond Street Institute of Child Health London WC1N 1EH
Kennedy Lecture Theatre

Monday 29th January

<table>
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<th>Time</th>
<th>Event</th>
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<tr>
<td>12:00-13:30</td>
<td>REGISTRATION – POSTER DISPLAY SET UP</td>
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<tr>
<td>13:25 - 13:30</td>
<td>Welcome address – Prof. Cheryll Tickle (University of Bath)</td>
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<tr>
<td>Chairperson</td>
<td>John Griffin (Department of Craniofacial Development and Stem Cell Biology, King’s College London Dental Institute, London, UK)</td>
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<td>13:30 - 14:10</td>
<td>Michael Dixon (Faculty of Biology, Medicine &amp; Health, University of Manchester, UK) The role of periderm during embryogenesis</td>
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<td>14:10 - 14:30</td>
<td>Nozie D. Aghaizu (UCL Institute of Ophthalmology, London, UK) Dynein 1 is required for the correct retinal positioning of apico-basally oscillating rod photoreceptor nuclei</td>
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<td>14:30 - 14:50</td>
<td>Surangi N. Perera (Department of Physiology, Development &amp; Neuroscience, University of Cambridge, UK) The development of olfactory ensheathing cells from the neural crest</td>
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Flash presentations
Florence Giger (Centre for neurodevelopmental disorders, King's College London) Cell-cell interactions during forebrain morphogenesis
Rachel Moore (UCL Institute of Child Health, London, UK) Determining neuronal polarity in the developing zebrafish spinal cord
Banafshe Navid (Genetics of Deafness The Wolfson Centre for Age-Related Diseases, King's College London, UK) Inner Hair Cell Auditory Neuropathy in Klhl18 Mutant Mice
Olivia Gillham (Developmental Biology & Cancer Programme, UCL GOS Institute of Child Health, London, UK) Modelling human CNS developmental pathologies using 3D hydrogel cultures
Knuffer Athene (Centre for Developmental Neurobiology, King's College London, UK) The role of cadherins in zebrafish ocular motor nucleus formation
Doris Cuckovic (Department of Craniofacial Development and Stem Cell Biology, King's College London Dental Institute, London, UK) The role of Gas1 in murine salivary gland development

15:10 - 16:20 TEA and POSTER SESSION 1

Chairperson Alessandro Fantin (UCL Institute of Ophthalmology, London, UK)

16:20 - 16:40 Vineetha Vijayakumar (Center for Developmental Neurobiology, King's College London, London SE1 1UL, UK) Establishing the inside out axis of the vertebrate brain

16:40 - 17:00 Zucchelli Eleonora (UCL Institute of Child Health, London, UK) Normal and abnormal human ear development - differentiation potential of microtic chondroblasts
William B. Barrell (Department of Craniofacial Development and Stem Cell Biology, King’s College London Dental Institute, London, UK)
Novel missense mutation in FUZZY results in craniosynostosis

Lynda Erskine (University of Aberdeen, UK)
Neuro-vascular interactions regulating optic pathway development

WINE RECEPTION

Tuesday 30th January

Chairperson Monica Tambalo (The Francis Crick Institute, London, UK)

Francesca Peri (EMBL, Heidelberg, Germany)
The brain under surveillance: the role of neuronal-microglial interactions in the development and repair of the CNS

Katja Maierbrugger (Wolfson Centre for Age Related Diseases King’s College London, London UK)
mTOR signalling and Unkempt regulate neurogenesis in the Drosophila central nervous system

Rafael Kochaj (Wolfson Centre for Age Related Diseases King’s College London, London UK)
Investigating the Role of Peroxisome Defects in Hearing Impairment

COFFEE BREAK

Chairperson Natacha Agabalyan (UCL GOS Institute of Child Health, London, UK)

Kit-Yi Leung (Developmental Biology & Cancer Programme, UCL GOS Institute of Child Health, London, UK)
Neural tube closure and brain development depends on the Glycine Cleavage System

Araz Ahmed (King’s College London, London, UK)
WNT signalling maintains ductal progenitor cells in adult salivary glands

Flash presentations

Giulia Selmin (UCL Institute of Child Health, London, UK)
Driving the myogenic differentiation of hPSCs through the forced expression of key transcription factors of the developmental pattern

Roberto Oleari (Department of Pharmacological and Biomolecular Science, University of Milan, Italy)
Dysfunctional SEMA3G signaling underlies familial Hypogonadotropic Hypogonadism and cTive GnRH neuron migration

Alessia Caramello (The Francis Crick Institute, London, UK)
Role of SOX9 in neuroepithelial progenitors

Jenny Lange (Developmental Biology & Cancer Programme, UCL GOS Institute of Child Health, London, UK)
Human Dystrophin Expression in Neural Stem Cells and the Developing Brain

Andy Symonds (Centre for Developmental Neurobiology, King’s College London, UK)
How do you build a vertebrate neuroepithelium?
30th HEAD GROUP MEETING

**Morag Lewis** (Genetics of Deafness Wolfson Centre for Age Related Diseases King’s College London, London, UK)

*Hearing impairment due to mutations of the Mir183/96/182 microRNA cluster suggest both loss and gain of function effects*

12:00 - 13:50 **LUNCH AND POSTER SESSION 2**

**Chairperson**  
**Luis Carretero Rodriguez** (University of Sussex, UK)

13:50 – 14:30  
**Marysia Placzek** (University of Sheffield, UK)  
*Development of the hypothalamus*

14:30 – 14:50  
**Lisa Hentschel** (Developmental Biology & Cancer Programme, UCL GOS Institute of Child Health, London, UK)  
*Using gene editing of human pluripotent stem cells to investigate PAX6 function in retinal development*

14:50 – 15:10  
**Yushi Redhead** (King’s College London and The Francis Crick Institute, London, UK)  
*Craniofacial Dysmorphology in mouse models of Down syndrome*

15:10 – 15:30  
**Benediktas Kaminskas** (School of Biological Sciences, University of East Anglia, Norwich, UK)  
*Regulation of postnatal hypothalamic neurogenesis by Fibroblast growth factor (FGF) signaling*

15:30 – 15:55 **TEA BREAK**

**Chairperson**  
**Elisa Martelletti** (Wolfson Centre for Age Related Diseases King’s College London, London UK)

16:00 - 16:20  
**Zain Alhasem** (Randall Division of Cell & Molecular Biophysics, King’s College, London, UK)  
*Molecular mechanisms regulating Trunk Neural Crest Migration*

16:20 - 16:40  
**Jordi Cayuso** (The Francis Crick Institute, London, UK)  
*Genetic dissection of Eph/Ephrin signalling during hindbrain segmentation*

16:40 – 17:00  
**Magdalena Żak** (UCL Ear Institute, University College London, London, UK)  
*Elucidating the molecular signals guiding the formation of inner ear sensory organs*

**Chairperson**  
**Patrizia Ferretti** (Developmental Biology & Cancer Programme, UCL GOS Institute of Child Health, London, UK)

**Peter Thorogood Memorial Lecture**

17:00 - 18:00  
**Professor William Harris**  
*University of Cambridge, UK*  
*Retinogenesis in the zebrafish*

18:00 - 18:10 **Best Talk and Best Poster Prize Award**