**Prague Meeting** on Epileptology and Pediatric Neurology

16<sup>th</sup> November 2016 Vila Lanna, V Sadech 1, Prague 6



13,15 1. Connectome in neurodevelopmental disorders

Lieven Lagae: Connectome in autism and other neurovelopmental disorders

Rosa Vydrová: Connectome in specific language impairment

Petr Ježdík: Electrophysiological characteristics of altered connectivity in specific language impairment

#### 14,15 Coffee break

14,40 2. Genetic causes of epilepsy and malformations of cortical development

### Tom Jacques: Cellular pathology of focal cortical dysplasia

Barbora Beňová: What is the role of somatic mutations in malformations of cortical development? Experience from EPNS fellowhip on the Institute of Child Health UCL and GOSH

Petra Laššuthová: New insights into genetic causes of epileptic encephalopathies

### 15.40 Coffee break

16,00 3. Pathogenesis of epilepsy in cortical dysplasia

Eleonora Aronica: Molecular mechanisms and pathogenesis of epilepsy in cortical dysplasia

Martin Balaštík: Semaphorin signaling in brain development and disease Přemysl Jiruška: Experimental models of malformations of cortical development

- 17.00 Overall discussion
- 17,15 Social event / reception

This scientific event is organized within the program "QUALITAS - Wellbeing in health and disease" of the Strategy AV21 of the Czech Academy of Sciences





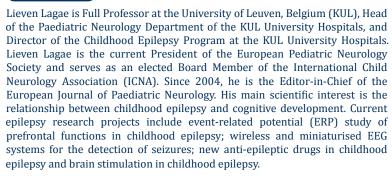


Wellbeing in

health and disease



### Lieven Lagae





# **Tom Jacques**

Tom Jacques runs a research group at the University College London Institute of Child Health focussing on brain tumours and paediatric epilepsy and provides the diagnostic neuropathology service for GOSH. He has held a Clinician Scientist Award for the past 6 years and has recently been awarded a nationally competitive HEFCE Clinical Senior Lectureship. Tom Jacques' research focuses on the role of stem cells in the development of paediatric brain disease. Specifically, he has recently shown that the major types of brain tumour can arise from stem cells and that the type of tumour is determined by the initiating genetic mutation. Tom has also isolated a pathological stem cell from a malformation of cortical development in children with severe epilepsy.



## **Eleonora Aronica**

Eleonora Aronica has both a clinical and fundamental scientific background. She is actively involved in various research areas including neuro-oncology, neurodegenerative diseases and epilepsy. Her research focuses on the origins of epilepsy (epileptogenesis) and the causes of pharmacoresistance in brain conditions associated with epilepsy. Working with the Swammerdam Institute for Life Sciences (SILS), she is researching how molecular infection can alter the communication between glia cells and neurones, and how this can contribute to the genesis of epileptic incidents and the emergence of neuronal damage. Her research group is currently researching the mechanisms involved with chronic infections associated with epilepsy. Another of her research areas focuses on the mechanisms of early onset and progressive neurodegeneration associated with epilepsy. In 2011 she was awarded the Michael Prize (international award for the best contribution to scientific and to clinical research). She is the author of more than 200 peer-reviewed original articles and reviewer for various scientific journals.





SECOND FACULTY OF MEDICINE HARLES UNIVERSIT