

# 3rd EPNS International Advances in Neuromodulation in Children Symposium

Athens-Greece | 16-17 September 2019 | Megaron Athens International Conference Centre (MAICC)

Organised by Dr Jean-Pierre Lin | Under the auspices of the EPNS

## PROGRAMME

### Day 1 - Monday, 16<sup>th</sup> September 2019

\*pending confirmation

- 08.00 – 09.00 **Badge pick-up and registration**
- 09.00 – 09.15 **Welcome**  
*Jean-Pierre Lin, London, UK*
- The Phenomenology and Physiology of Movement Disorders in Children**  
*Chairs: Jean-Pierre Lin, London, UK and Darcy Fehlings\*, Toronto, Canada*
- 09.15 – 10.00 **Developmental Biology of Scales for Dystonia, Chorea and Ataxia in Typically Developing Children**  
*Deborah Sival\*, Groningen, Netherlands*
- 10.00 – 10.45 **The Significance of Motor and Sensory Testing in Children with Periventricular Leucomalacia**  
*Alexander Hoon\*, Kennedy Krieger Institute, Johns Hopkins Hospital, Baltimore, USA*
- 10.45 – 11.15 **Coffee break**
- Neurophysiological Assessments in Childhood Movement Disorders.**  
*Chairs: Deborah Sival\*, Groningen, Netherlands and Alexander Hoon\*, USA*
- 11.15 – 11.45 **What can we learn about Movement Disorders in Childhood from Somatosensory Evoked Potentials?**  
*Dr Verity McClelland, London, UK*
- 11.45 – 12.15 **Corticomuscular Coherence Studies in Typically Developing Children and Children with Dystonia.**  
*Dr Verity McClelland, London, UK*
- 12.15 – 12.45 **Embryology and Functions of the Lateral Vestibular Nucleus**  
*To be confirmed*
- 12.45 – 13.15 **The Tonic Labyrinthine Response as a Sign of Dystonia and Response to Deep Brain Stimulation**  
*Dr Jean-Pierre Lin, Evelina London Children's Hospital, UK*
- 13.15 – 14.00 **Sponsored Lunch Symposium I**  
*Industry sponsored session*
- Neuroimaging and Deep Brain Stimulation in Childhood Dystonias**  
*Chairs: Prof. Alexander Hammers and Dr Ata Siddiqui, London, UK*
- 14.15 – 15.00 **FDG-PET-CT Brain Imaging in Childhood Dystonias**  
*Prof. Alexander Hammers and Dr Stavros Tsagkaris, PET Imaging Centre, London, UK*

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- 15.00 – 15.45**      **MRI and FDG-PET Characteristics of Glutaric Aciduria Type 1 and Response to Deep Brain Stimulation**  
*Dr. Ata Siddiqui and Dr Jean-Pierre Lin, London, UK*
- 15.45 – 16.15**      **Coffee break**  
**Interactive DBS Targeting for Dystonia**  
*Chair: Prof. Alexander Hammers*
- 16.15 – 17.00**      **Interactive Visually-Guided and Parcellation (Tractography) – Guided Deep Mapping for Deep Brain Stimulation for Dystonia in Children**  
*Mr Harutomo Hasegawa and Dr Daniel Lumsden, Evelina London Children's Hospital, UK*  
**Dystonic Pain and Care Pathways for Childhood Dystonias**  
*Chairs: Warren Marks, USA and Daniel Lumsden, London, UK*
- 17.00 – 17.45**      **The Response of Dystonic Pain to Deep Brain Stimulation**  
*Sarah Perides, Clinical Nurse Specialist. Evelina London Children's Hospital, UK*
- 17.45 – 18.30**      **The American Academy for Cerebral Palsy and Developmental Medicine Dystonia Care Pathway.**  
*Darcy Fehlings, Bloorview Childrens Hospital Foundation, Toronto, Canada*
- 18.30**              **Close of Day 1**

## Day 2 - Tuesday, 17<sup>th</sup> September 2019

### Neuromodulation for Childhood Epilepsies and Inflammatory Disorders

\*pending confirmation

- 09.00 – 09.15**      **Welcome.** *Dr Sophia Varadkar, Great Ormond Street for Children, London, UK*  
**Assessing the Impact of Childhood Epilepsies**  
*Chairs: Dr Sophia Varadkar, Great Ormond Street for Children, London, UK & TBC*
- 09.15 – 09.45**      **Monitoring Seizure Frequency and Duration**  
*Prof Amre Shawan\*, Dublin, Ireland*
- 09.45 – 10.15**      **The impact of Seizures in Childhood**  
*Dr Ailsa McLellan, Edinburgh, UK*
- 10.15 – 10.45**      **Coffee break**  
**Neuromodulation for Childhood Epilepsies**  
*Chairs: Antonio Valentin and Carlo Alberto Tassinari*
- 10.45 – 11.15**      **Embryology and Neuroanatomy of the Vagus Nerve**  
*To be confirmed*
- 11.15 – 11.45**      **History of Vagus Nerve Stimulation**  
*Dr Marta Feucht\*, Vienna, Austria*

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- 11.45 – 12.15**      **Closed Loop Vagus Nerve Stimulation for Childhood Epilepsies**  
*Dr Sophia Varadkar, Great Ormond Street for Children, London, UK*
- 12.15 – 13.15**      **Neuromodulation for FIRES in the Intensive Care Unit**  
*Antonio Valentin, King's College Hospital, London, UK*
- 13.30 – 14.30**      **Sponsored Lunch Symposium II**  
*Industry sponsored session*
- Cognition Function after Neuromodulation for Childhood Epilepsies and Epileptic Movement Patterns**  
*Chairs: Dr Sophia Varadkar, Great Ormond Street for Children, London, UK and Warren Marks, USA*
- 14.30 – 15.00**      **Cognitive Functioning before and after Epilepsy Neuromodulation Surgery**  
*Sarah Rudebeck, London, UK*
- 15.00 – 15.45**      **The Mechanism of Fragmented and Complete Movement Patterns in Childhood Epilepsies.**  
*Carlo Alberto Tassinari\*, Bologna, Italy*
- 15.45 – 16.15**      **Coffee break**
- Neuromodulation for Chronic Inflammatory Disorders**  
*Chairs: Dr Ming Lim, Evelina London Children's Hospital, UK and Professor Bruno Bonaz\*, Grenoble, France*
- 16.15 – 17.00**      **Neural Control of the Innate Immune System**  
*Dr Ming Lim, Evelina London Children's Hospital, UK*
- 17.00 – 17.45**      **Vagus Nerve Stimulation for Chronic Inflammatory Bowel Disease**  
*Prof. Bruno Bonaz\*, Grenoble, France*
- 17.45 – 18.30**      **Vagus Nerve Stimulation for Rheumatoid Arthritis.**  
*Prof. Paul-Peter Tak\*, Academic Medical Center/University of Amsterdam, Netherlands*
- 18.30 – 18.45**      **Closing remarks**  
*Dr Sophia Varadkar, Great Ormond Street for Children, London, UK and Jean-Pierre Lin, London, UK*