

## Scientific Programme

Monday | 16 September 2019

08:00-09:00 Badge pick-up and Registration

Skalkotas Hall

09:00-09:15 **WELCOME MESSAGE**

Jean-Pierre Lin (United Kingdom)

Skalkotas Hall

09:00-10:45 **SESSION 1: The phenomenology and physiology of movement disorders in children**

Chairs: Jean-Pierre Lin (United Kingdom), Darcy Fehlings (Canada)

09:15-10:00 *Developmental biology of scales for dystonia, chorea and ataxia in typically developing children*  
**Deborah Sival** (Netherlands)

10:00-10:45 *The significance of motor and sensory testing in children with Periventricular Leucomalacia*  
**Alexander Hoon** (USA)

10:45-11:15 **Coffee Break**

Skalkotas Hall

11:15-12:45 **SESSION 2: Neurophysiological assessments in childhood movement disorders**

Chairs: Deborah Sival (Netherlands), Alexander Hoon (USA)

11:15-11:45 *What can we learn about movement disorders in childhood from somatosensory evoked potentials?*  
**Verity McClelland** (United Kingdom)

11:45-12:15 *Corticomuscular coherence studies in typically developing children and children with dystonia*  
**Verity McClelland** (United Kingdom)

12:15-12:45 *The tonic labyrinthine response as a sign of dystonia and response to Deep Brain Stimulation*  
**Jean-Pierre Lin** (United Kingdom)

12:45-13:00 **Intermission**

Skalkotas Hall

13:00-14:00 **INDUSTRY SPONSORED SYMPOSIUM 1**

Skalkotas Hall

14:15-15:45 **SESSION 3: Neuroimaging and Deep Brain Stimulation in childhood dystonias**

Chairs: Alexander Hammers (United Kingdom), Ata Siddiqui (United Kingdom)

14:15-15:00 *FDG-PET-CT brain imaging in childhood dystonias*  
**Alexander Hammers** (United Kingdom), **Stavros Tsagkaris** (United Kingdom)

15:00-15:45 *MRI and FDG-PET characteristics of Glutaric Aciduria Type 1 and response to Deep Brain Stimulation*  
**Ata Siddiqui** (United Kingdom), **Jean-Pierre Lin** (United Kingdom)

15:45-16:15 Coffee Break

Skalkotas Hall

## 16:15-17:00 SESSION 4: Interactive DBS targeting for dystonia

Chairs: **Alexander Hammers** (United Kingdom), **Keyoumars Ashkan** (United Kingdom)

16:15-17:00

*Interactive visually-guided and parcellation (Tractography) – Guided Deep Mapping for Deep Brain Stimulation for dystonia in children*

**Harumoto Hasegawa** (United Kingdom), **Daniel Lumsden** (United Kingdom)

Skalkotas Hall

## 17:00-18:00 SESSION 5: Dystonic pain and care pathways for childhood dystonias

Chairs: **Warren Marks** (USA), **Daniel Lumsden** (United Kingdom)

17:00-17:30

*The response of dystonic pain to Deep Brain Stimulation*

**Sinead Barkey** (United Kingdom)

17:30-18:00

*The American Academy for Cerebral Palsy and Developmental Medicine Dystonia Care Pathway*

**Darcy Fehlings** (Canada)

Skalkotas Hall

## 18:00-19:00 SESSION 6: Neuromodulation for chronic pain and neuropsychiatric conditions

Chairs: **Warren Marks** (USA), **Daniel Lumsden** (United Kingdom)

18:00-18:30

*Deep Brain Stimulation for phantom limb pain*

**David Pang** (United Kingdom)

18:30-19:00

*Neuropsychiatric indication for Deep Brain Stimulation*

**Keyoumars Ashkan** (United Kingdom)

**Tuesday | 17 September 2019**

Neuromodulation for Childhood Epilepsies and Inflammatory Disorders

Skalkotas Hall

**09:00-09:15 WELCOME MESSAGE**

Sophia Varadkar (United Kingdom)

Skalkotas Hall

**09:15-10:15 SESSION 7: Assessing the impact of childhood epilepsies**

Chairs: **Sophia Varadkar** (United Kingdom), **Marta Feucht** (Austria)

09:15-09:45 *Monitoring seizure frequency and duration*  
**Amre Shahwan** (Ireland)

09:45-10:15 *The impact of seizures in childhood*  
**Ailsa McLellan** (United Kingdom)

10:15-10:45 **Coffee Break**

Skalkotas Hall

**10:45-12:15 SESSION 8: Neuromodulation for childhood epilepsies**

Chairs: **Antonio Valentin** (United Kingdom), **Amre Shahwan** (Ireland)

10:45-11:30 *History of Vagus Nerve Stimulation*  
**Marta Feucht** (Austria)

11:30-12:15 *Closed Loop Vagus Nerve Stimulation for childhood epilepsies*  
**Sophia Varadkar** (United Kingdom)

Skalkotas Hall

**12:15-13:15 SESSION 9: Cognition function after Neuromodulation for childhood epilepsies and epileptic movement patterns**

Chairs: **Sophia Varadkar** (United Kingdom), **Warren Marks** (USA)

12:15-13:15 *Cognitive functioning before and after Epilepsy Neuromodulation Surgery*  
**Sarah Rudebeck** (United Kingdom)

13:15-13:30 **Intermission**

Skalkotas Hall

**13:30-14:30 INDUSTRY SPONSORED SYMPOSIUM 2**

Foyer Skalkotas

**14:30-15:00 VIDEO PRESENTATIONS SESSION**

Skalkotas Hall

**15:00-17:45 SESSION 10: Neuromodulation for acute and chronic CNS and systemic inflammatory disorders**

Chairs: **Sophia Varadkar** (United Kingdom), **Bruno Bonaz** (France)

15:00-15:45 *Neural control of the Innate Immune System*  
**Ming Lim** (United Kingdom)

15:45-16:30 *Vagus Nerve Stimulation for Chronic Inflammatory Bowel Disease*  
**Bruno Bonaz** (France)

# 3rd EPNS International Advances in Neuromodulation in Children Symposium

Tuesday | 17 September 2019 (continued)

16:30-17:45 *Outcome from Neuromodulation for FIRES in the Intensive Care Unit*  
**Antonio Valentin** (United Kingdom), **Richard Selway** (United Kingdom)

17:45-18:15 Discussion

**Skalkotas Hall**

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## 18:15-18:30 CLOSING REMARKS

**Sophia Varadkar** (United Kingdom), **Jean-Pierre Lin** (United Kingdom)