PRE-CONGRESS SYMPOSIUM
2nd European Paediatric Neurology Society International Satellite Symposium
on Advances in Neuromodulation in children: Neuronal Networks, Neurophysiology and Neuroplasticity

Monday June 19

08:00 - 09:00 Badge pick-up and registration
09:00 - 09:15 Welcome
Jean-Pierre Lin (UK)

09:15 - 10:45 DEVELOPMENTAL NEUROBIOLOGY OF MOVEMENT:
PHYSIOLOGY AND PATHOPHYSIOLOGY OF CEREBELLUM AND THALAMUS
Chairs: Jean-Pierre Lin (UK), Maija Lahtinen (Finland)
09:15 - 10:00 Cerebellar functions and connections
Deborah Sival (The Netherlands)
10:00 - 10:45 Thalamic networks: evolution, embryology and function
Zoltan Molnar (UK)
10:45 - 11:15 Coffee Break

11:15 - 12:45 BASAL GANGLIA PHYSIOLOGY AND PATHOPHYSIOLOGY
Chairs: John Rothwell (UK), Deborah Sival (The Netherlands)
11:15 - 12:00 Basal Ganglia embryology and development: structure and function beyond the ‘brake’ and the ‘clutch’
Pierre Burbaud (France)
12:00 - 12:45 Aetiology of dystonia and Globus Pallidus microeleetrode recording during DBS surgery for childhood dystonias
Verity McClelland (UK)
13:00 - 14:00 Lunch

14:00 - 15:30 DEVELOPMENTAL AND PATHOPHYSIOLOGICAL MOVEMENTS AND POSTURES
Chairs: Pierre Burbaud (France), Deborah Sival (The Netherlands)
14:00 - 14:30 ‘Motor’Babble’: Phylogenic, Ontogenic and Pathological Postures and Movements
Jean-Pierre Lin (UK)
14:30 - 15:00 Random and patterned pathological postures and movements in children
Terence Sanger (USA)
15:00 - 15:30 Basal ganglia circuits and DBS: insights from neuroimaging and neurophysiology
Ettore Accolla (Germany)
15:30 - 16:00 Coffee Break

16:00 - 17:30 NEUROPHYSIOLOGICAL ASSESSMENTS FOR DBS NEUROMODULATION
Chairs: Diane Ruge (Germany), Terence Sanger (USA)
16:00 - 16:45 Measuring cerebral plasticity in the developing brain
Angelo Quararone (Italy)
16:45 - 17:30 Can motor and sensory potentials stratify prognosis for DBS for dystonia in children?
Verity McClelland (UK)

17:30 - 19:00 DBS FOR COMPLEX ACQUIRED DYSTONIAS AND NEUROPROTECTION
Chairs: Kristina Tedroff (Sweden), Warren Marks (USA)
17:30 - 18:15 Towards a reappraisal of Status Dystonicus: from neuronal networks and neuromodulation perspectives
Laura Clif (France)
18:15 - 19:00 Is neuromodulation neuroprotective?
Keyoumars Ashkan (UK)
PRE-CONGRESS SYMPOSIUM

Tuesday June 20

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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| 08:00 - 09:30 | CRITICAL DEVELOPMENTAL WINDOWS FOR AUDITORY PROCESSING, LANGUAGE AND COMMUNICATION AND EVOLUTION OF AUDITORY CORTEX AND OTHER FUNCTIONS  
Chairs: Deborah Sival (The Netherlands), Fabian Klostermann (Germany) |
| 08:00 - 08:45 | Vertebrate brains and evolutionary connectomics: Thalamo-cortical inputs and critical and sensitive windows of plasticity in the developing brain  
Zoltan Molnar (UK) |
| 08:45 - 09:30 | Neurolinguistics and the impact of movement disorders  
Serge Pinto (France) |
| 09:30 - 10:45 | FEEDING, SPEECH, LANGUAGE AND COMMUNICATION AFTER DBS NEUROMODULATION FOR DYSTONIA AND PARKINSONISM  
Chairs: Kristina Tedroff (Sweden), Serge Pinto (France) |
| 09:30 - 10:00 | The Complex Motor Disorders Service experience of speech and oral feeding following DBS surgery  
Lesley Baker (UK) |
| 10:00 - 10:45 | Effects of thalamic and basal ganglia Deep Brain Stimulation on language-related functions  
Conceptual and Clinical Considerations  
Fabian Klostermann (Germany) |
| 10:45 - 11:15 | Coffee Break |
| 11:15 - 13:15 | CORTICAL MAPPING AND CEREBRAL PLASTICITY AFTER DBS NEUROMODULATION  
Chairs: Laura Cif (France), Pierre Burbaud (France) |
| 11:15 - 12:00 | DBS-evoked potentials in adult dystonias  
John Rothwell (UK) |
| 12:00 - 12:30 | Depth Electrode Recording to identify targets for DBS in secondary dystonia  
Terence Sanger (USA) |
| 12:30 - 13:15 | DBS-induced cerebral dependence and plasticity: lessons from switching off  
Diane Ruge (Germany) |
| 13:30 - 14:30 | Lunch Symposium - Neuromodulation in Children  
Chair: M. Carrecchio (Italy) |
| 14:30 - 15:45 | COGNITION AND COGNITIVE ORIENTATION AFTER DBS NEUROMODULATION FOR DYSTONIA  
Chairs: Kristina Tedroff (Sweden), John Rothwell (UK) |
| 14:30 - 15:00 | Cognitive functioning before and after DBS in children with primary and secondary dystonias  
Sarah Rudebeck (UK) |
| 15:00 - 15:45 | Driving Activity and Participation with COOP delivered after DBS in children and young people  
Hortensia Gimeno (UK) |
| 15:45 - 16:15 | Coffee Break |
| 16:15 - 17:15 | WHAT SHOULD WE TELL THE PARENTS AND CHILDREN ABOUT DBS NEUROMODULATION FOR CHILDREN?  
Chairs: Laura Cif (France), Maja Lahrisen (Finland) |
| 16:15 - 16:45 | What parents think and feel about decision-making for DBS  
Sarah Rudebeck (UK) |
| 16:45 - 17:15 | Safety and Complications of DBS in children with dystonia  
Margaret Kaminska (UK) |
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<thead>
<tr>
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<tbody>
<tr>
<td>17:15</td>
<td><strong>STARTING A DBS SERVICE FOR CHILDREN AND COLLECTING DATA</strong></td>
<td>Keyoumars Ashkan (UK), Anne Koy (Germany)</td>
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<td>17:15</td>
<td><strong>Starting a DBS Service for children: Neurological considerations</strong></td>
<td>Nathalie Dorison (France)</td>
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<td><strong>Starting a DBS Service for children: Neurosurgical considerations</strong></td>
<td>Maja Lahtinen (Finland)</td>
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<td>17:55</td>
<td><strong>Progress with the PediDBS International Registry: Trials and tribulations</strong></td>
<td>Warren Marks (USA)</td>
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<td>18:25</td>
<td><strong>Closing remarks</strong></td>
<td>Jean-Pierre Lin (UK)</td>
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