



SATELLITE SYMPOSIUM EPNS Congress 2015

First European Paediatric Neurology Society
International Symposium on
Advances in Neuromodulation in Children

25-26th May 2015, Vienna, Austria

Organiser: Dr Jean-Pierre Lin, London, UK

REGISTRATION

Please register online at www.epns2015.org

Registration fee	
SPECIAL price for EPNS Congress attendees	75 €
Standard registration fee	150 €

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ANNOUNCEMENT

Dear Colleagues

It is with great pleasure that we invite you to the first EPNS International Symposium on Neuromodulation in Children. This exciting and unique two-day meeting will introduce and discuss in detail all the major developments including current clinical indications for neuromodulation in children. A broad faculty of international experts will bring you up-to-date with the history, practice and future developments in the rapidly developing field of neuromodulation, including:

- *'Cerebral Plasticity: windows of opportunity in the developing brain'*
- *'Synaptic transmission and integration formation and maturation and homeostatic plasticity: how neuronal circuits respond to electricity'*
- *'Pragmatic sensing tools for safe, efficient and cost-effective neuromodulation'*
- *'Technical challenges and safety of MRI after neuromodulation from spine to brain: what can we see and what can we learn?'*
- *'New developments in neuromodulation: what's in the pipeline?'*
- *'Motor Networks in Man & Computational anatomy for studying use-dependent brain plasticity.'*
- *'How does the brain adapt to novel environments and inputs?'*
- *'Motor Function and Basal Ganglia circuits: what have we learned from neuromodulation?'*
- *'Historical Developments in Children's DBS'*
- *'A sociological study of neuromodulation and the importance of 'the broad clinical gaze''*

Specific areas of neuromodulation to be covered include:

- *Cochlear neuromodulation for hearing, language and speech*
- *Vestibular neuromodulation for balance, dizziness and vertigo*
- *Spinal neuromodulation for chronic pain*
- *Transcutaneous neuromodulation for bladder and bowel incontinence*
- *Spinal neuromodulation for bladder and bowel incontinence*
- *Transcranial Magnetic Stimulation for mapping motor pathways in cerebral palsy*
- *Therapeutic Transcranial Magnetic Stimulation after stroke*
- *Deep brain stimulation for movement disorders*
- *Therapeutic Transcranial Magnetic Stimulation for epilepsy*
- *Vagal nerve stimulation for epilepsy*
- *Deep brain stimulation for epilepsy*

This symposium is suitable for neuropaediatricians, child neurologists, specialists in rehabilitation and neurodisability, allied health professionals, surgeons working with children with disabilities, neuropsychologists, radiologists, medical and allied health students, clinical scientists, sociologists and health economic specialists.

I would be delighted to welcome you in Vienna!

Jean-Pierre Lin
Organiser

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PROGRAMME - MONDAY, 25 MAY 2015

09.00-10.30	Session 1 International Children's DBS Network
10'	1. Welcome <i>Jean-Pierre Lin, London, UK</i>
50'	2. CPIRF Children's Deep Brain Stimulation Database Update Presentation Workshop <i>Warren Marks, Texas, US, Terence Sanger, UCSD, USA</i>
30'	3. Scales and Outcomes for managing Dystonia in childhood: what have we learned from previous studies? <i>Hortensia Gimeno, London, UK</i>
10.30-11.00	Break
11.00-13.00	Session 2 Neuromodulation for Hearing and Language and Developmental Plasticity <i>Chairs: Anne Wright, Terence Sanger</i>
30'	1. Indications and prognosis for receptive and expressive language after cochlear implantation in children: does age of implantation matter? <i>Sandra Driver, London, UK</i>
30'	2. A short history of cochlear and vestibular Neuromodulation in children: anatomical, physiological and surgical challenges <i>Dan Jiang, London, UK</i>
60'	3. Cerebral Plasticity: windows of opportunity in the developing brain <i>Michael Johnston, Baltimore, USA</i>
13.00-14.00	Lunch Break
14.00-15.00	Session 3 Electrical Circuits, Synaptic plasticity and implantation challenges <i>Chairs: Andrea Kuhn, Richard Selway</i>
30'	1. Homeostatic plasticity: how neuronal circuits respond and adapt to long-term changes in electrical activity <i>Winnie Wefelmeyer, London, UK</i>
30'	2. Pragmatic sensing tools for safe, efficient and cost-effective neuromodulation <i>Peter Brett, Uxbridge, UK</i>
15.00-15.30	Break
15.30-17.30	Session 4 Spinal Neuromodulation for pain and incontinence <i>Chairs: Anne Koy, Jean-Pierre Lin</i>
45'	1. Current experience of spinal neuromodulation for chronic pain: is there a role in children and young people. <i>David Pang, London, UK</i>
30'	2. Clinical experience of Superficial Parasacral TENs for functional constipation and bladder overactivity in children <i>Anne Wright, London, UK</i>
45'	3. Implanted sacral Neuromodulation for neurogenic urinary and faecal incontinence: clinical indications and future perspectives in childhood <i>Mirna Haddad, Marseille, France</i>
17.30-19.00	Session 5 MRI after Neuromodulation and New Developments <i>Chairs: Bogdan Draganski, Daniel Lumsden</i>
45'	1. Technical challenges and safety of MRI after neuromodulation from spine to brain: what can we see and what can we learn? <i>John Thornton, London, UK</i>
45'	2. New developments in neuromodulation: what's in the pipeline? <i>Steve Manker, Minneapolis, USA</i>
20.00-22.00	Faculty and Delegate Dinner

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PROGRAMME - TUESDAY, 26 MAY 2015

- 09.00-10.30 Session 6 Basic Concepts in Neuroplasticity in Child and Man
Chairs: Jean-Pierre Lin, Terence Sanger
- 50' 1. Motor Networks in Man & Computational anatomy for studying use-dependent brain plasticity.
Bogdan Draganski, Lausanne, Switzerland
- 40' 2. How does the brain adapt to novel environments and inputs?
Samuel Barnes, London, UK
- 10.30-11.00 Break
- 11.00-13.00 Session 7 Non-invasive Transcranial Brain Stimulation in Children
Chairs: Martin Staudt, Adam Kirton
- 30' 1. TMS in cerebral Palsy: what have we learned?
Martin Staudt, Tübingen, Germany
- 45' 2. Non-invasive neuromodulation of developmental plasticity to enhance function after perinatal stroke
Adam Kirton, Calgary, Canada
- 45' 3. Motor Function and Basal Ganglia circuits: what have we learned from neuromodulation?
Jon Mink, Rochester, USA
- 13.00-14.00 Lunch Break
- 14.00-15.30 Session 8 Deep Brain Stimulation for Movement Disorders in Children
Chairs: Warren Marks, Michael Johnston
- 30' 1. Historical Developments in Children's DBS
Laura Cif, Montpellier, France
- 30' 2. DBS in Cerebral Palsy: Challenges and Opportunities.
Anne Koy, Cologne, Germany
- 30' 3. Probabilistic Neuroimaging Maps and outcome of DBS for dystonia in Children
Daniel Lumsden, London, UK
- 15.30-16.00 Break
- 16.00-17.30 Session 9 Physiological and Developmental considerations for DBS in movement Disorders in Children
Chairs: Jon Mink, Laura Cif
- 45' 1. Prognosis for DBS in children: the role of aetiology, motor function and proportion of life lived with dystonia.
Jean-Pierre Lin, London UK
- 45' 2. Basal ganglia Field Potentials in Parkinsonism and Dystonia in Man and Child: progress towards closed loop DBS systems.
Andrea Kuhn, Berlin, Germany
- 17.30-19.00 Session 10 Neuromodulation for Epilepsy
Chairs: Jean-Pierre Lin, Alexander Rotenberg
- 30' 1. TMS in childhood epilepsy: opportunities and clinical progress
Alexander Rotenberg, USA
- 30' 2. Progress in DBS for epilepsy in children
Richard Selway, London, UK
- 30' 3. Vagal Nerve Stimulation: historical and future perspectives
Lieven Lagae, Leuven, Belgium
- 19.00-19.30 A sociological study of neuromodulation and the importance of 'the broad clinical gaze'
John Gardner, London, UK
- 19.30-19.45 Concluding Remarks
Jean-Pierre Lin, London UK
- 20.00-22.00 Faculty and Delegate Reception
Exhibition Hall: An opportunity to view equipment and discuss technical issues with the experts

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FACULTY

Samuel Barnes, London, UK
Peter Brett, London, UK
Laura Cif, Montpellier, France
Bogdan Draganski, Lausanne, Switzerland
Sandra Driver, London, UK
John Gardner, London, UK
Hortensia Gimeno, London, UK
Mirna Haddad, Marseille, France
Dan Jiang, London, UK
Michael Johnston, Baltimore, USA
Adam Kirton, Calgary, Canada
Anne Koy, Cologne, Germany
Andrea Kühn, Berlin, Germany
Lieven Lagae, Leuven, Belgium
Jean-Pierre Lin, London, UK
Daniel Lumsden, London, UK
Steve Manker, Minneapolis, USA
Warren Marks, Texas, USA
Jon Mink, Rochester, USA
David Pang, London, UK
Alexander Rotenberg, Boston, USA
Terence Sanger, Los Angeles, USA
Richard Selway, London, UK
Martin Staudt, Tübingen, Germany
John Thornton, London, UK
Winnie Wefelmeyer, London, UK
Anne Wright, London, UK

VENUE



The Satellite Symposium will be taking place in Hall N on Level 1 at the Austria Center Vienna (ACV).



Austria Center Vienna
Bruno-Kreisky-Platz 1
1220 Vienna, Austria

REGISTRATION

Satellite Symposium is **fully booked**.

If you would like to be added to the waiting list, please complete the online registration form and tick the Satellite Symposium box. You will not be charged for the Symposium, and in the event that free capacity becomes available we will contact you via email before proceeding with any bookings.

Please register online at www.epns2015.org

Registration fee
SPECIAL price for EPNS Congress attendees 75 €
Regular Registration fee 150 €

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