12th EPNS CONGRESS
Lyon • France • 2017

June 20-24, 2017
Cité Internationale

« Lifelong course of diseases of the child’s nervous system »

Lyon Cité Internationale

European Paediatric Neurology Society • www.epns2017.com
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**EPNS Representative for France**

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Alexis Arzimanoglou, University Hospitals of Lyon

**Multiple Sclerosis & related CNS inflammatory diseases**  
Marc Tardieu, Le Kremlin-Bicêtre Hospital, University of Paris XI  
Kumaran Deiva, Le Kremlin-Bicêtre Hospital, University of Paris XI

**Neuromuscular pathologies**  
Isabelle Desguerre, Necker-Enfants Malades, University of Paris V (René Descartes)

**Neurodevelopmental disorders**  
Vincent des Portes, University Hospitals of Lyon

**Inherited metabolic diseases**  
Brigitte Chabrol, University Hospitals of Marseille

**Local Organizing Committee**

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Eleni Panagiotakaki  
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**CONFERECE ORGANISER & SECRETARIAT**

ANT Congrès - 154 avenue de Lodève - 34070 Montpellier - France  
Phone: +33 4 67 10 92 23 - Email: epns-sfnp@ant-congres.com
09:00 - 17:30 MONDAY-TUESDAY
Pre-congress NEUROMODULATION SYMPOSIUM
See pages 8-9

- SCIENTIFIC PROGRAM -
Tuesday June 20

| 17:30 | Opening of the EPNS CONGRESS 2017
Opening of Scientific EPNS Conference |
| 19:00 - 19:30 | OPENING CEREMONY |
Welcome from EPNS president
Lieven Lagae (Belgium)
Welcome from SFNP local organizing committee
Vincent des Portes (France)
Welcome from the city of Lyon
M. Alain Galliano
Vice Président en charge des relations internationales et de l’attractivité pour le grand Lyon, Maire de Craponne |
| 19:30 - 20:30 | AICARDI AWARD LECTURE |
Chair. Lieven Lagae (Belgium)
1st EPNS Aicardi Award
The EPNS Board is delighted to announce that Professor Alexis Arzimanoglou from the University Hospitals of Lyon, France has been selected as the recipient of the first EPNS Aicardi Award.
The EPNS was deeply saddened about the passing of Professor Jean François Marie Aicardi in 2015. In recognition of our honorary EPNS member we have introduced the Aicardi Award. The award is given to Professor Arzimanoglou in appreciation of his exemplary contribution to the field of Paediatric Neurology. |
| 20:30 - 22:30 | WELCOME RECEPTION «CUISINE LYONNAISE» |
Co-hosted with the Grand Lyon
Cite Internationale Exhibit Area |
Wednesday June 21

INTERACTIVE EARLY MORNING TEACHING SEMINARS

08:00 - 08:45
Migraine as a life-span disorder
Florian Heinen (Germany)
Clinical expression of movement disorders & Epileptic seizures: Same neuronal networks?
Philippe Kahane (France)
Neonatal EEG: Guidelines revised
Ronit Pressler (UK), Sylvie Nguyen (France)
Screening for metabolic disorders in a child neurology department
Jaume Campistol (Spain), Linda de Meirleir (Belgium)

08:45 - 10:00
PLENARY SESSION 1
From parents to the child: risks and outcome in children
Maternal pathologies

Pregnancy in multiple sclerosis: what are the consequences for the child?
Sandra Vukusic (France)
Metabolic Disorders: Diagnostic and management practices for phenylketonuria in Europe
Francjan J van Spronsen (Netherlands)
Muscle disorders: the example of myotonic dystrophy
Guillaume Bassez (France)

10:00 - 10:30
Coffee Break and Poster Viewing

10:30 - 12:15
PARALLEL SESSIONS

Inherited metabolic diseases - I
Epilepsy: Evolution of co-morbidities with age and global care
CNS Inflammatory diseases - I

10:30 - 10:55
PS 1: Synaptic metabolism: a new approach to neurometabolic diseases
Angels Garcia-Cazorla (Spain)
PS 2: Psychiatric comorbidities in children with epilepsy: do they differ from adults?
Lieven Lagae (Belgium)
PS 3: Origins and persistence of CNS autoimmunity: Nature, nurture and tumour
Ming Lim (UK)

10:55 - 12:15
Selected oral presentations

12:15 - 13:30
INDUSTRY SYMPOSIA

SHIRE: Prolonged seizures: How can we achieve optimal management of high-risk patients?
BIOGEN: Evolving the Standard of Care in Spinal Muscular Atrophy
GENZYME: Pompe disease: How to identify the disease in infants and children
PTC: Translating clinical research into clinical practice in the field of Duchenne muscular dystrophy

13:30 - 14:30
Lunch Break and Poster Viewing

14:30 - 16:00
PLENARY SESSION 2
From parents to the child: risks and outcome in children
Toxic exposure

Maternal epilepsy and effect of the AEDs on the child’s neurological development
Torbjörn Tomson (Sweden)
Psychiatric disorders and the child’s neurological development
Fabrice Rivollier (France)
Environmental toxics and birth defects
Mirjam Landgraf (Germany)

16:00 - 16:30
Coffee Break and Poster Viewing

16:30 - 18:15
PARALLEL SESSIONS

Neuromuscular pathologies
Epilepsy Surgery
Inherited metabolic diseases II

16:30 - 16:55
PS 4: Spinal Muscular Atrophy
Isabelle Desguerre (France)
PS 5: Should we wait for children to become adults?
Helen Cross (UK)
PS 6: Cell replacement therapies for paediatric leukoencephalopathic disorders
Vivi Heine (The Netherlands)

16:55 - 18:15
Selected oral presentations
Selected oral presentations
Selected oral presentations
## Thursday June 22

### INTERACTIVE EARLY MORNING TEACHING SEMINARS

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speakers</th>
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<tbody>
<tr>
<td>08:00-08:45</td>
<td>Treating anxiety and/or depression in children</td>
<td>Pierre Fournet (Lyon)</td>
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<td>Genetics Techniques: What you think your neighbour knows in the field of genetics?</td>
<td>Mathieu Milh (France), Damien Sanlaville (France)</td>
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<td>Diagnosing and treating Narcolepsy in Children</td>
<td>Sameer Zuberi (UK)</td>
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<td>Semiology of movement disorders: Comparing children &amp; adult patients</td>
<td>Dianne Doummar, Marie Vidalhiet (France)</td>
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### PLENARY SESSION 3

**From parents to the child: risks and outcome in children**

- **Genetics and environment**
  - Outcome of children born by medically assisted procreation
    - Maryse Bonduelle (Belgium)
  - Genetic disorders mimicking viral infection
    - Yannick Crow (France/UK)
  - Acute Flaccid Paralysis due to Enterovirus D68-
    - European Collaboration
    - Jay Shetty (UK)

### PARALLEL SESSIONS

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>10:30-10:55</td>
<td>Foetal and neonatal neurology</td>
<td>PS 7: Neuroimaging findings as an outcome predictor</td>
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<td>Epilepsy Treatment</td>
<td>PS 8: Evidence-based trials in childhood epilepsies, should they differ from those performed in adults</td>
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<td>CNS Inflammatory diseases II</td>
<td>PS 9: Cognition and inflammatory diseases of the brain</td>
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<td>10:30-10:55</td>
<td>Linda de Vries (The Netherlands)</td>
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<td>Stéphane Auvin (France)</td>
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<td>10:55-12:15</td>
<td>Selected oral presentations</td>
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### INDUSTRY SYMPOSIA

- **BIOCDEX:**
  - Long-term medical and psychosocial outcomes in Dravet syndrome
- **LIVANOA:**
  - VNS Therapy for Epileptic Encephalopathies
- **BIOMARIN:**
  - Identification, Early diagnosis and Evolution in the Management of CLN2
- **SAREPTA:**
  - The importance of genetic testing and interpretation in the new era of mutation specific treatments for Duchenne muscular dystrophy

### Lunch Break and Poster Viewing

### PLENARY SESSION 4

**From childhood to adulthood: What did we learn from large cohort studies?**

- Lysosomal disorders
  - Nadia Belmatoug (France)
- Duchenne Muscular Dystrophy
  - Nathalie Goemans (Belgium)
- Genetic syndromes with behavioural and cognitive symptomatology: the example of Tuberous Sclerosis
  - Anna Jansen (Belgium)

### Networking time

### Gala Networking Dinner

Musée des Beaux-Arts
## SCIENTIFIC PROGRAM
### Friday June 23

### INTERACTIVE EARLY MORNING TEACHING SEMINARS

<table>
<thead>
<tr>
<th>Time</th>
<th>Seminar</th>
<th>Speakers</th>
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<tbody>
<tr>
<td>07:45 - 08:30</td>
<td>Industry breakfast symposium Early-onset epilepsies GW Research Ltd</td>
<td>Genetic screening for epileptic encephalopathies in 2017 Rima Nabbout, Gaëtan Lesca (France)</td>
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<td>What to ask and how to read the MRI of a child with focal epilepsy? Nathalie Boddaert (France), Laura Tassi (Italy)</td>
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### PARALLEL SESSIONS

#### 08:30 - 10:00

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<tr>
<th>Time</th>
<th>Topic</th>
<th>Speakers</th>
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<tbody>
<tr>
<td>08:30 - 08:55</td>
<td>Vascular Disorders Epilepsy Diagnosis Neurodevelopmental Disorders - I</td>
<td>PS 10: Optimal treatment of AV malformations Guillaume Saliou (France) PS 11: Epileptic Seizures and Metabolic screening: when, which and for whom? Barbara Plecko (Switzerland) PS 12: Rare Copy-Number variations and neuropsychiatric development disorders Sébastien Jacquemont (Switzerland)</td>
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<tr>
<td>08:55 - 10:00</td>
<td>Selected oral presentations</td>
<td>Selected oral presentationsSelected oral presentations</td>
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<td>10:00 - 10:30</td>
<td>Coffee Break and Poster Viewing</td>
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#### 10:30 - 12:15

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<td>10:55 - 12:15</td>
<td>Selected oral presentations</td>
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<tr>
<th>Company</th>
<th>Topic</th>
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<tr>
<td>EISAI</td>
<td>Focal seizures and epilepsies: a challenging transition from childhood to adulthood</td>
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<td>SANHERA</td>
<td>Focus on Addressing Respiratory Function Decline in Duchenne Muscular Dystrophy</td>
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<td>ZOGENIX</td>
<td>Dravet Syndrome Emerging Insights</td>
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<tr>
<td>NOVARTIS</td>
<td>New Insights Into Management of Tuberous Sclerosis Complex-Associated Seizures</td>
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### PLenary Session 5

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<tr>
<th>Time</th>
<th>Topic</th>
<th>Speakers</th>
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<tbody>
<tr>
<td>13:30 - 14:30</td>
<td>From childhood to adulthood: Evolution of treatment concepts and therapeutic novelties</td>
<td>Gene therapy in neurometabolic disorders Marc Tardieu (France) Innovative treatments in neuromuscular disorders Francesco Muntoni (UK) Treatment trials in neurodevelopmental disorders: the example of fragile X Vincent Des Portes (France)</td>
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### PARALLEL SESSIONS

#### 16:30 - 18:15

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speakers</th>
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<tbody>
<tr>
<td>16:30 - 16:55</td>
<td>Neurodevelopmental disorders - II Inherited Metabolic diseases III Movement disorders (an EAN-EPNS joint session)</td>
<td>PS 16: How does human cognition develop? Brain imaging studies in the first months of life Ghislaine Dehaene (France) PS 17: Brain Iron Accumulation Manju Kurian (UK) PS 18: Treatment of movement disorders: can we use the same treatments in adults and in children? Jean-Pierre Lin (UK), Miryam Carecchio (Italy)</td>
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<tr>
<td>16:55 - 18:15</td>
<td>Selected oral presentations</td>
<td>Selected oral presentations Selected oral presentations</td>
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08:30 - 09:00  EPNS General Assembly

09:00 - 11:00  EPNS ACADEMY: Infectious diseases

  Congenital infections
  Chairs: Hermione Lyall (UK), Linda De Meirleir (Belgium)

  Congenital Toxoplasmosis an update
  Prathiba Singh (India)

  Congenital Zika syndrome: beyond the microcephaly
  Vanessa Vanderlinden (Brazil)

  Congenital CMV infection: a Changing Paradigm
  Hermione Lyall (UK)

11:00 - 12:30  Highlights in Paediatrics Neurology

12:30 - 13:30  Closing ceremony - EPNS Scientific committee
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 (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 (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 microelectrode recording during DBS surgery for childhood dystonias
Verity McCelland (UK)
13:00 - 14:00 Lunch symposium: Innovations in neuromodulation
Boston Scientific (USA)

14:00 - 15:30 DEVELOPMENTAL AND PATHOPHYSIOLOGICAL MOVEMENTS AND POSTURES
Chairs: Pierre Burbaud (France), Deborah Sival (Netherlands)

14:00 - 14:30 ‘Motor’Babble’: Phylogenetic, Ontogenetic 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 Goal-directed and Habitual Functions: a journey through time
Peter Redgrave (UK)
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 Quartarone (Italy)
16:45 - 17:30 Can motor and sensory potentials stratify prognosis for DBS for dystonia in children?
Verity McCelland (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 Cif (France)
18:15 - 19:00 Is neuromodulation neuroprotective?
Keyoumars Ashkan (UK)
08:00 - 09:30 CRITICAL DEVELOPMENTAL WINDOWS FOR AUDITORY PROCESSING, LANGUAGE AND COMMUNICATION AND EVOLUTION OF AUDITORY CORTEX AND OTHER FUNCTIONS
Chairs: Deborah Sival (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 Tedoff (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 - Innovations in neuromodulation
Medtronic (USA)

14:30 - 15:45 COGNITION AND COGNITIVE ORIENTATION AFTER DBS NEUROMODULATION FOR DYSTONIA
Chairs: Kristina Tedoff (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 Lahtinen (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)

17:15 - 18:30 STARTING A DBS SERVICE FOR CHILDREN AND COLLECTING DATA
Chairs: Keyoumars Ashkan (UK), Anne Koy (Germany)

17:15 - 17:35 Starting a DBS Service for children: Neurological considerations
Nathalie Dorison (France)

17:35 - 17:55 Starting a DBS Service for children: Neurosurgical considerations
Maja Lahtinen (Finland)

17:55 - 18:25 Progress with the PediDBS International Registry: Trials and tribulations
Warren Marks (USA)

18:25 - 18:30 Closing remarks
Jean-Pierre Lin (UK)
REGISTRATIONS ARE NOW OPEN

IMPORTANT DATES

REGISTRATIONS ARE NOW OPEN

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