Epilepsy at the Cutting Edge

A Symposium to Honour Fred and Eva Andermann

Montreal Neurological Institute & Hospital, McGill University
October 23-25, 2008
Thursday, October 23, 2008

INTRODUCTION & WELCOME (8:15 – 8:30)
D Colman  Director, Montreal Neurological Institute and Hospital
R Riopelle  Chair, Neurology & Neurosurgery, McGill University
R Levin  Vice-President (Health Affairs) & Dean, Faculty of Medicine, McGill University

MALFORMATIONS OF CORTICAL DEVELOPMENT (8:30 – 12:00)
8:30 – 10:00  SESSION 1 : Genetics
Chairs: MM Guerreiro  University of Campinas, Brazil
        HJ Meencke  Epilepsy Center Berlin-Brandenburg, Germany
Lissencephaly, pachygyria & double cortex syndrome: clinical patterns and genetics
WB Dobyns  University of Chicago, USA
Polymicrogyria and nodular heterotopia: clinical patterns and genetics
          R Guerrini  University of Florence, Florence, Italy
Brain development: what have clinical and genetic studies taught us?
          CA Walsh  Deaconess Medical Center, Boston, USA
10:00 – 10:30  Coffee Break
10:30 – 12:00  SESSION 2 : Challenges in Diagnosis
Chairs: RI Kuzniecky  New York University, USA
        A Arzimanoglou  Institute for Children and Adolescents with Epilepsy, Lyon, France
Challenges in the radiological identification of malformations of cortical development
          AJ Barkovich  University of California, San Francisco, USA
Electrophysiology of the focal cortical dysplasias
          A Palmini  Pontifical Catholic University of Rio Grande do Sul, Porto Alegre, Brazil
Pathophysiology of Tuberous Sclerosis Complex
          PB Crino  University of Pennsylvania, Philadelphia, USA
12:00 – 13:30  Lunch

KEYNOTE ADDRESS (13:30 – 14:30)
Chair: SD Shorvon  UCL Institute of Neurology, London, England
Borderlands of epilepsy: a clinical and molecular view 100 years on
          SF Berkovic  University of Melbourne, Australia
14:30 – 15:00  Coffee Break

GENERALIZED EPILEPSIES (15:00 – 17:00)
15:00 – 17:00  SESSION 3 : Syndromes
Chairs: M Pandolfo  Université Libre de Bruxelles, Belgium
        K Laxer  California Medical Center, San Francisco, USA
Channelopathies: JME
          P Cossette  Université de Montréal, Canada
Generalized epilepsies - genetic twists in the channels and other tales
          I Scheffer  University of Melbourne, Australia
Unverricht-Lundborg disease
          P Genton  Hôpital Henri Gastaut-Centre Saint Paul, Marseille, France
Febrile seizures and their relationship to later epilepsies
          B Abou-Khalil  Vanderbilt University Medical Center, Nashville, USA

PERSONAL RECOLLECTIONS (17:15 – 18:15)
Chairs: B Zifkin  Montreal Neurological Institute and Hospital, Canada
        D Keene  Children’s Hospital of Eastern Ontario, Ottawa, Canada
Historical notes
          W Feindel  Montreal Neurological Institute and Hospital, Canada
8:15 – 8:30  EPILEPSY IN CANADA
L Carmant  Canadian League Against Epilepsy and Université de Montréal, Canada

FOCAL EPILEPSIES
(8:30 – 17:00)

8:30 – 10:00  SESSION 4: Genetics
Chairs: Y Fukuyama  Child Neurology Institute, Tokyo, Japan
M Shevell  Montreal Children’s Hospital, Canada

Benign temporal lobe epilepsy
A Gambardella  University Magna Graecia, Catanzaro, Italy

Familial mesial temporal lobe epilepsy
I Lopes-Cendes  University of Campinas, Brazil

Familial frontal lobe epilepsy
P Tinuper  University of Bologna, Italy

10:00 – 10:30  Coffee Break

10:30 – 12:00  SESSION 5: Electrophysiology
Chairs: K Silver  University of Chicago, USA
B Rosenblatt  Montreal Children’s Hospital, Canada

Understanding the epileptogenicity of the lesions with intracerebral EEG
F Dubeau  Montreal Neurological Institute and Hospital, Canada

From epileptogenic lesion to epileptogenic network
P Kahane  Université Joseph Fourier, Grenoble, France

High Frequency Oscillations (HFOs): The new EEG frontier?
J Gotman  Montreal Neurological Institute and Hospital, Canada

Co-registered EEG/Magnetoencephalography for source localisation
H Stefan  University of Erlangen-Nuremberg, Germany

12:00 – 13:30  Lunch

13:30 – 15:00  SESSION 6: Imaging
Chairs: D Tampieri  Montreal Neurological Institute and Hospital, Canada
A Bernasconi  Montreal Neurological Institute and Hospital, Canada

Quantitative MRI techniques in temporal lobe epilepsy
F Cendes  University of Campinas, Brazil

New anatomical and functional MRI techniques
GD Jackson  Brain Research Institute, Melbourne, Australia

Functional imaging in focal epilepsy: neurotransmission and metabolism
J Engel, Jr  University of California, Los Angeles, USA

15:00 – 15:30  Coffee Break

15:30 – 17:00  SESSION 7: Cognitive Studies
Chairs: O Eeg-Olofsson  Uppsala University, Sweden
M Jones-Gotman  Montreal Neurological Institute and Hospital, Canada

Neuropsychological evaluation: children are not small adults
M Smith  University of Toronto, Canada

Cognitive deficits and developmental speech disorders in MCDs
AC Jansen  University Hospital, Brussels, Belgium

Cognitive mapping through electrophysiology
G Ojemann  University of Washington School of Medicine, Seattle, USA

PERSONAL RECOLLECTIONS
(17:15 – 18:15)
Chairs: G Rémillard  Montreal Neurological Institute and Hospital, Canada
P Hwang  University of Toronto Epilepsy Program, Canada

BANQUET
(19:45)
(Banquet attendance by prepaid reservation)
### Saturday, October 25, 2008

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<tr>
<th>Time</th>
<th>Session</th>
<th>Location/Details</th>
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<tr>
<td>8:15 – 8:30</td>
<td>The Montreal Neurological Institute Surgical Tradition</td>
<td>A Olivier, Montreal Neurological Institute and Hospital, Canada</td>
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<td>8:30 – 10:00</td>
<td>SESSION 8: Surgery and other approaches</td>
<td>Chairs: N Moshé, Albert Einstein College of Medicine, New York, USA, A Cole, Harvard University, Cambridge, USA</td>
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<td>Why does temporal lobectomy for mesial TLE sometimes fail?</td>
<td>Y Comair, Baylor College of Medicine, Houston, USA</td>
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<td>Non-resective and less invasive surgical treatments for refractory epilepsies</td>
<td>N Barbaro, University of California, San Francisco, USA</td>
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<td>New methods of drug therapy for epilepsy</td>
<td>R Fisher, Stanford University, Palo Alto, USA</td>
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<td>10:00 – 10:30</td>
<td>Coffee Break</td>
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<td>10:30 – 12:00</td>
<td>SESSION 9: Catastrophic Epilepsies</td>
<td>Chairs: N Fejerman, Hospital Nacional de Pediatría, Buenos Aires, Argentina, H Oguni, Tokyo Women’s Medical University, Japan</td>
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<td>Managing epilepsy in tuberous sclerosis complex</td>
<td>EA Thiele, Massachusetts General Hospital, Cambridge, USA</td>
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<td>Rasmussen’s encephalitis: Are there new, better therapeutic medical and surgical guidelines?</td>
<td>O Dulac, Hôpital Necker Enfants-Malades, Paris, France</td>
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<td>Medical and surgical management of infantile spasms</td>
<td>HT Chugani, Children’s Hospital of Michigan, Detroit, USA</td>
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<td>REFLECTIONS</td>
<td>(12:00 – 12:30) Fred &amp; Eva Andermann, Montreal Neurological Institute &amp; Hospital</td>
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<td>12:30 – 13:30</td>
<td>Light Lunch</td>
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