

Contents

Foreword.....	IX
Workshop participants	XI
Section I: Generalized seizures and epilepsies: a bilateral “focal” dysfunction?	
What is a generalized seizure? <i>Patrick Chauvel</i>	3
What is a Generalized epilepsy? <i>Frederick Andermann</i>	23
Section II: Tonic seizures and brainstem systems	
From brainstem to forebrain in generalized animal models of seizures and epilepsies <i>Phillip C. Jobe, Ronald A. Browning</i>	33
Systems and networks in tonic seizures and epilepsies in humans <i>Warren T. Blume</i>	53
Comments from participants	
<i>Ajay Gupta</i>	69
<i>Pavel Mares</i>	70
Section III: Absence seizures and cortico-thalamic systems	
Propagation and dynamic processing of cortical paroxysms in the basal ganglia networks during absence seizures <i>Jeanne T. Paz, Pierre-Olivier Polack, Seán J. Slaght, Jean-Michel Deniau, Séverine Mahon, Stéphane Charpier</i>	75

Cortical control of absence seizures: focal initiation, spreading and modulation <i>Gilles van Luijckelaar, Evbenia Y. Sitnikova, Inna S. Midzyanovskaya</i>	93
Systems and networks in absence seizures and epilepsies in humans <i>Edouard Hirsch, Maria-Paola Valenti</i>	119
Spike-wave seizures in corticothalamic systems <i>Mircea Steriade</i>	127

**Section IV:
Myoclonic seizures and the frontal lobe**

Animal models of myoclonic seizures and epilepsies <i>Jana Velíšková, Libor Velíšek</i>	147
Systems and networks in myoclonic seizures and epilepsies <i>Matthias J. Koepp, Khalid Hamandi</i>	163
Connections between primary reading epilepsy and juvenile myoclonic epilepsy? <i>Thomas A. Mayer, Peter T. Wolf, Frauke Shroeder, Theodor W. May</i>	183

**Section V:
Primary versus Secondary Tonic-clonic seizures**

Behavior, neural circuits and plasticity in acute and chronic animal models of generalized tonic-clonic seizures <i>Norberto Garcia-Cairasco</i>	197
The semiology and pathophysiology of the secondary generalized tonic-clonic seizures <i>Samden Lhatoo, Hans Lüders</i>	229
Tonic-clonic and clonic-tonic-clonic seizures in human primary generalized epilepsies <i>Reyna M. Durón, Julia N. Bailey, Marco T. Medina, Iris E. Martínez-Juárez, Miyabi Tanaka, María Elisa Alonso, Ramón H. Castro Ortega, Katerina Tanya Perez-Gosiengfiao, Ignacio Pascual-Castraviejo, Adriana Ochoa, Aurelio Jara-Prado, Jesus Machado-Salas, Lizardo Mija, Antonio V. Delgado-Escueta</i>	247

**Section VI:
The “cortical” and “centrencephalic” theories revisited**

Cortical trigger in generalized seizures <i>Fernando Lopes da Silva</i>	271
--	-----

**Section VII:
Phenomenology versus networks: clinical consequences**

Why can some antiepileptic drugs control certain types of seizures and aggravate others? <i>Dieter Schmidt</i>	285
---	-----

**Section VIII:
Concluding remarks**

Can we replace the terms “focal” and “generalized”? <i>Jerome Engel</i>	305
--	-----