



**Third annual EPICURE meeting
Charité Universitätsmedizin Berlin
Campus Mitte
Charitéplatz 1
10117 Berlin**

FRIDAY – FEBRUARY 6, 2009

9:00 G. Avanzini: Welcome and introduction
9:10 C. Finocchiaro: management report
9.25 S. Cogoni and J. Mifsud: Dissemination

**Acquired channelopathy and neuronal network reorganization (SP3)
Chairmen U.Heinemann and I. Bluemke**

9:40: Chairmen introduction

10:00 Derst. Reduced ictogenic potential of 4-aminopyridine in the perirhinal and entorhinal cortex of kainate-treated chronic epileptic rats.

10:20 Bentivoglio and Fabene: Pilocarpine-induced seizures Involve extra-limbic circuits, and vascular and excitotoxic mechanisms

10:40 Zucchini et al: FGF-2 Overexpression Increases Excitability and Seizure Susceptibility but Decreases Seizure-Induced Cell Loss

11:00 break

11:20 Dugladze et al: Impaired hippocampal rhythmogenesis in a mouse model of mesial temporal lobe epilepsy

11:40 Sperk Altered GABAA receptor composition in temporal lobe epilepsy

12:00 Walker: Outwardly rectifying tonic GABA(A) receptor conductance in pyramidal cells alters neuronal offset not gain

12:20 Tort (Gloveli?): On the formation of gamma-coherent cell assemblies by oriens lacunosum-moleculare interneurons in the hippocampus

12.40 Blumcke et al: A new clinico-pathological classification system for mesial temporal sclerosis

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13:00 Lunch break

14.00 Hammen et al: Non-invasive detection of hippocampal sclerosis: correlation between metabolite alterations detected by (1)H-MRS and neuropathology.

14.20 Hopfensgärtner: Interictal triple ECoG characteristics of temporal lobe epilepsies: An intraoperative ECoG analysis correlated with surgical outcome.

14:40 Blumcke et al: A new clinico-pathological classification system for mesial temporal sclerosis

15:00 General Discussion SP3: achievements, short and long term strategies (Chairs: U. Heinemann, G. Sperk, M. Walker)

16:00 Break

Pharmacogenetics of refractory epilepsy, mechanisms of drug resistance and new therapeutic strategies (SP5)

Chairmen E. Perucca and H Beck

16.20 Chairmen introduction

16:30 Uebachs et al: Role of accessory Na⁺ channel subunits in Na⁺ channel antiepileptic drug sensitivity.

16.50 Franceschetti et al phenytoin accelerates time-dependent inactivation of the persistent sodium current in neocortical neurons.

17:10 U. Heinemann: Models of pharmacoresistance seizures based on recent publications

17.30 General Discussion SP5: achievements short and long term strategies Chairmen (E. Perucca and H. Beck)

18.30 – 19.30 SP1 / SP2 Planning discussion

20:00 ? Dinner

SATURDAY – FEBRUARY 7, 2009

Genetics of human epilepsies and functional consequences of mutations in ion channel genes (SP1 and SP2)

Chairmen T. Sander and H Lerche

9:00 Chairmen's introduction

9:20 Terragni. Self-limited hyperexcitability: a novel pathogenic mechanism for a familial hemiplegic migraine mutation of Nav1.1 Na⁺ channel.

09:40 M. Royeck Up-regulation of persistent Na⁺ channels in chronic epilepsy.

10:00 J. Pitsch: Transcriptional up-regulation of Cav3.2 mediates epileptogenesis

10:20 Rusconi. Folding defective epileptogenic Nav1.1 mutants rescued by interacting proteins.

10:40 break

11:00 S. Maljevic: KCNQ2 channels: Developmental distribution and cultures from knock-out animals

11:15 Y. Liao: Age-dependent seizures: Nav1.2 channel dysfunction and developmental distribution in BFNIS

11:30: Y. Weber: Phenotypic variability of GLUT1 mutations

11:50 Helbig et al: 15q13.3 microdeletions increase risk of idiopathic generalized epilepsy

12:00 General discussion of SP1 and SP2 (Chairmen: M. Mantegazza, J. Serratosa and F. Zara)

13:00 lunch break

Epilepsy and development

Chairmen R. Guerrini and Y. Ben Ari (or Represa)

14:00 Guerrini: Introduction: Abnormal development of the human cerebral cortex: genetics, functional consequences and treatment options.

14:20 Cardoso et al: Periventricular heterotopia, mental retardation and epilepsy associated with 5q14.3-q15 deletion

14:40 Mei et al High frequency of genomic deletions and a duplication of Lis 1 gene in lissencefaly: implications for molecular diagnosis

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15:00 Parrini et al: Bilateral frontoparietal polymicrogyria, Lennox-Gastaut syndrome, and GPR56 gene mutations

15:20 A. Represa: Excitatory GABA in Rodent Developing Neocortex In Vitro

15:40 Rossini and Medici: Biomolecular investigation of cortical dysplasia

16:00 break

16:15 General Discussion SP 4: achievements, short and long term strategies (Chairmen R. Guerrini and Ben Ari or Represa)

Animal models and methods

Chairmen H. Lhumann and M de Curtis

17:20 Luhmann et al: A novel miniature telemetric system for recording EEG activity in freely moving rats

18:40 General Discussion on animal models: achievements, short and long term strategies (Chairmen H. Lhumann and M de Curtis)

End of meeting 19:40