

SUNDAY 28th AUGUST

12:15-13:30 **CLAUDIO MUNARI WORKSHOP 2011** **Hall 1**

Epilepsy surgery in paediatric age:

Indications, diagnosis and results at the beginning of the 3rd Millennium

Part 1: Indications, clinical features and non-invasive diagnosis

Chair: Philippe Kahane, France

Indications considering clinical features and psychomotor development

Bernardo Dalla Bernardina, Italy

Electro-clinical features as defined by video-EEG recordings

Hans Holthausen, Germany

Electro-clinically based neuroimaging studies

Lucia Fusco, Italy

14:00-15:15 **CLAUDIO MUNARI WORKSHOP 2011** **Hall 1**

Part 2: Invasive diagnosis, surgery and outcome

Chairs: Stefano Francione, Italy & Patrick Chauvel, France

Subdural recordings and stimulations

Hans Luders, USA

Stereo-EEG recordings and stimulations

Philippe Kahane, France

From lesionectomy to hemispherotomy: always a tailored choice

Giorgio Lo Russo, Italy

Surgical outcome: an overview

Ingrid Tuxhorn, USA

12:30-15:00 **WORKSHOP** **Hall 2**

Setting future direction for IBE: the next 50 years

Chair: Hanneke de Boer, Netherlands

Constitutional amendment: changing times, changing needs

Johan Falk Pedersen, Norway

Advocating for change: tips from an insider

Seán Kelly, Ireland

Legislation: working with policy makers

Alexandra Finucane, USA

Changing communications and networks: developing e-communities

Peter Murphy, Ireland

Funding crisis: new opportunities in fundraising

Robert Cole, Australia

- 12:30-13:45** **NEUROBIOLOGY WORKSHOP** **Hall 6**
Metabolic mechanisms of epileptogenesis
Chairs: Astrid Nehlig, France & Edward Bertram, USA
- MRI of structural, functional and metabolic markers of epileptogenesis in animals
Olli Gröhn, Finland
- The ketogenic diet and epilepsy
Jong Rho, USA
- Targeting metabolic mechanism for novel epilepsy treatments
Manisha Patel, USA
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- 13:45-15:00** **REPORT ON 2011 WONOEP WORKSHOP** **Hall 6**
Finding a better drug for epilepsy
Chair: Jeffrey Noebels, United States
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- 15:30-17:00** **CYBERONICS SATELLITE SYMPOSIUM** **Hall 2**
Neurostimulation for epilepsy: veni, vidi, vici?
Chairs: Paul Boon, Belgium & Paolo Tinuper, Italy
- Neurostimulation today
Paolo Tinuper, Italy & Paul Boon, Belgium
- Neurostimulation tomorrow: myth or reality? Impact of seizure detection capability
Andreas Schulze-Bonhage, Germany
- The head/heart connection: a path to automated seizure detection, warning and treatment
Ivan Osorio, USA
- Closing the loop: a revolution in epilepsy care?
Paul Boon, Belgium
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- 15:30-17:00** **MEDTRONIC INC. SATELLITE SYMPOSIUM** **Hall 5**
Novel technology to treat refractory epilepsy
Chair: Arthur Cukiert, Brazil
- DBS for epilepsy; SANTE long term results
Kristin Lambrecht, USA
- Rationale and clinical considerations for DBS in epilepsy
Arthur Cukiert, Brazil
- DBS mechanism of action and new technology development
Paul Stypulkowski, USA
- Evaluation of DBS for epilepsy in a primate model
Stefan Chabardes, France

17:30-19:00 **MERRITT-PUTNAM SYMPOSIUM** (*sponsored by Pfizer, Inc.*) **Hall 1**

The state of genetics in epilepsy

Chair: Giuliano Avanzini, Italy

Are genetic rodent models helping our understanding of the mechanisms of epilepsy and the development of better treatments?

Antoine Depaulis, France

To what extent do genes influence response to AEDs?

Holger Lerche, Germany

A critical examination of the current state of epilepsy genetic studies

David Greenberg, USA

19:30-20:30 **OPENING CEREMONY** **Hall 1**

20:30-21:30 **WELCOME RECEPTION** **Reception Area**

MONDAY 29th AUGUST

- 07:30-09:00** **CASE ORIENTED LEARNING SERIES** **Hall 2**
Diagnosis and management of epilepsy and sleep:
Is it epilepsy or not? Interpretation of epileptiform seizure discharges
Chair: Prasanna Jayakar, United States
- Speakers:*
Paolo Tinuper, Italy
Perrine Plouin, France
Prasanna Jayakar, USA
- 07:30-09:00** **VIDEO SESSION** (*Organised in conjunction with the Italian League against Epilepsy*)
Clinical semiology of epileptic and related conditions: **Hall 3**
Non epileptic attacks in the paediatric age
Chairs: Giuseppe Capovilla, Italy & Natalio Fejerman, Argentina
- Speakers:*
Roberto Caraballo, Argentina
Sameer M Zuberi, UK
Giuseppe Capovilla, Italy
- 07:30-09:00** **"HOW TO" SERIES** **Hall 4**
Starting an epilepsy surgery programme:
Patient selection and non-invasive evaluation: perspective for starting a programme
Chair: Walter Van Emde Boas, Netherlands
- Speakers:*
Hermann Stefan, Germany
Manuel Campos, Chile
Walter van Emde Boas, Netherlands
- 07:30-09:00** **TEACHING SESSION** **Hall 6**
Neuromodulation in the treatment of epilepsy
Chair: Bernhard Steinhoff, Germany
- Speakers:*
Gonzalo Alarcon, UK
Kristl Vonck, Belgium
Bernhard Steinhoff, Germany

09:00-11:00 **PRESIDENTIAL SYMPOSIUM** **Hall 1**

Avoiding epilepsy deaths

Chairs: Mike Glynn, Ireland & Solomon L Moshé, USA

Am I going to die with my disease? A carer's perspective
Susan Axelrod, USA

Epilepsy kills
Lina Nashef, UK

Treatment failures and epilepsy-related deaths
Dale Hesdorffer, USA

The brain, the heart, and epilepsy: the scientific fight against SUDEP
Jeffrey Noebels, USA

Is it preventable? Lessons from the UK
John Paul Leach, UK

11:30-13:00 **POST PRESIDENTIAL SYMPOSIUM** **Hall 1**

Epilepsy destroys lives part 1

Chairs: Helen Cross, United Kingdom & Sichuo Li, China

How can I help as a leader in my profession to win the war on epilepsy?
Wilfred Kipkemboi Bungei, Kenya

Can one live well with epilepsy?
Helen Cross, UK

Catastrophic epilepsies strike all ages: how do we get rid of the catastrophe?
Terence O'Brien, Australia

Enlisting the governments in the war against epilepsy
Esper Cavalheiro, Brazil

11:30-13:00 **PARALLEL SESSION** **Hall 2**

A new international classification system for focal cortical dysplasias

Chairs: Roberto Spreafico, Italy & Ingmar Blumcke, Germany

Molecular and cellular pathomechanisms of cortical development
Renzo Guerrini, Italy

Neuroradiological findings classifying focal cortical dysplasias
A James Barkovich, USA

Neurophysiological and clinical findings classifying focal cortical dysplasia
Roberto Spreafico, Italy

Neuropathological findings classifying focal cortical dysplasias
Ingmar Blümcke, Germany

11:30-13:00 **PARALLEL SESSION** **Hall 3**

Genetic focal epilepsies: the clinical, genetic and therapeutic spectrum

Chairs: Roberto Michelucci, Italy & Yushi Inoue, Japan

Focal epilepsies and genetic channelopathies
Weiping Liao, China

Basic mechanisms of focal epilepsy with mutations in LGI1
Stephanie Baulac, France

Focal epilepsies due to mutations of genes that do not code for ion channels
Roberto Michelucci, Italy

The possibility of surgical treatment of focal epilepsy associated with genetic abnormalities
Yushi Inoue, Japan

11:30-13:00 **PARALLEL SESSION** **Hall 4**

Controversies in psychiatric aspects of epilepsy

Chairs: Andres Kanner, United States & Marco Mula, Italy

The global burden of epilepsy: impact of psychiatric comorbidities
Lilia Núñez Orozco, Mexico

Should antidepressant drugs be tested as antiepileptic agents?
Andres Kanner, USA

Are psychiatric disorders of epilepsy different from primary psychiatric disorders?
Marco Mula, Italy

Should all surgical candidates undergo a presurgical psychiatric evaluation?
P Satish Chandra, India

11:30-13:00 **PARALLEL SESSION** **Hall 5**

Epilepsy in the visual arts and in literature

Chair: Peter Wolf, Denmark

Insights into epilepsy from contemporary artists
Steven Schachter, USA

Stimulation and enhancement of creativity from epilepsy
Jim Chambliss, Australia

Epilepsy in literature
Peter Wolf, Denmark

11:30-13:00

PARALLEL SESSION

Hall 6

Compliance in epilepsy: what are the issues?

Chair: Donna Bergen, United States

How common is non compliance in epilepsy?

Marco Tulio Medina, Honduras

Why am I not taking my medication? A patient's perspective

Ashok Pillai, India

Health and cost implications of poor compliance in epilepsy

Donna Bergen, USA

14:30-16:00

PLATFORM SESSION 1

Hall 2

Paediatric epilepsy: triggers, language and spasms

Chairs: Alexis Arzimanoglou, France & Angelina Kakooza, Uganda

001

Seizure triggers in children with SCN1A-related epilepsy

*Sanchez-Carpintero R, Urestarrazu E, Perea DA, Aznarez N, Narbona-Garcia J
Spain*

002

Relation between vaccination and occurrence of seizures in SCN1A mutation positive patients: the first Italian multi-centric study

*Petrelli C, Passamonti C, Baldassari C, Verrotti A, Capovilla G, Viri M, Coppola G, Vignoli A, Zamponi N
Italy*

003

Functional connectivity of language activation in childhood focal epilepsy

*Sepeta L, Zimmaro LA, Duke ES, Berl MM, VanMeter J, Vaidya CJ, Yerys B, Gaillard WD
USA*

004

The association between frequency of nocturnal epilepsy and language disturbance in children

*Overvliet GM, Besseling R, Vles J, Hofman P, Debeij-van Hall M, Backes W, Aldenkamp A
Netherlands*

005

Lateralising signs in infantile spasms: differences in video and EEG analysis

*Dressler A, Klaus M-T, Muehlebnner A, Moerzinger M, Pahs G, Benninger F, Feucht M
Austria*

006

Relationship between initial EEG characteristics and seizure outcomes in the children of infantile spasms with normal MRI finding

*Yeon GM, Kim YM, Nam SO, Lee Y-J
South Korea*

14:30–16:00 **PLATFORM SESSION 2**

Hall 3

Death, injuries and epilepsy

Chair: Lucia Fusco

- 007** **Postictal decerebrate rigidity: clinical evidence of the involvement of cerebral electrical shutdown combined with respiratory distress as a possible mechanism of SUDEP**
Genusa M, Mothersill IW, Grunwald T, Krämer G
Switzerland
- 008** **Cause-specific mortality among patients with epilepsy: results of a 40-year cohort study**
Granbichler CA, Oberaigner W, Kuchukhidze G, Unterberger I, Ndayisaba J-P, Bauer G, Trinka E^{1,2}
Austria
- 009** **Circadian seizure patterns in SUDEP: patients with nocturnal seizures are at highest risk**
Lamberts RJ¹, Laffan A², Thijs RD^{1,3}, Sander JW^{1,3}, Langan Y²
¹Netherlands, ²Ireland, ³United Kingdom
- 010** **Effect of interictal epileptic activities on heart rate variability in unilateral temporal lobe epilepsy**
Kinoshita M, Demura Y, Matsumoto R, Ikeda A
Japan
- 011** **The frequency and associated risk factors of seizure-related injury, near-drowning and vehicular crashes in a community sample of patients with epilepsy**
D'Souza WJ¹, Tan M¹, Ficker D², O'Brien T¹, Cook M¹
¹Australia, ²USA
- 012** **Reduced heart rate variability is associated with ictal hypoxemia**
Bateman LM, Wong V, Pathak SR, Seyal M
USA

Translational studies

Chairs: Filiz Onat, Turkey & Michele Simonato, Italy

- 013** **Hippocampal CA3 transcriptome signature and dentate gyrus MRI features correlate with initial precipitating injury in refractory temporal lobe epilepsy**
Bando SY, Alegro MC, Amaro Jr E, Silva AV, Castro LHM, Wen H-T, Lima LA, Brentani H, Moreira-Filho CA
Brazil
- 014** **Altered expression of Cl⁻ transporters in tumour-related epilepsies**
Palma E¹, Conti L¹, Roseti C¹, Lauro C¹, Cipriani R¹, de Groot M², Aronica E², Limatola C¹
¹ Italy, ² Netherlands
- 015** **Persistence of sensory information integration during absence seizures: evidence from *in vivo* intracellular investigation in a genetic model**
Chipaux M, Charpier S
France
- 016** **Involvement of the mTOR signaling pathway in hippocampal granule cell dispersion and gliosis in a mouse model of mesio-temporal lobe epilepsy**
Nitta N¹, Nozaki K¹, Depaulis A²
¹ Japan, ² France
- 017** **Lentiviral-mediated over-expression of the potassium channel Kv1.1 as a treatment for focal neocortical epilepsy**
Wykes RC, Heeroma JH, Kullmann DM, Walker MC, Schorge S
United Kingdom
- 018** **Functional characterization of human induced pluripotent stem (iPS) cells grafted in hyperexcitable organotypic culture**
Avaliani N¹, Sorensen AT¹, Koch P², Brustle O², Kokaia M¹
¹ Sweden, ² Germany

14:30–16:00 **INVITED PLATFORM SESSION** **Hall 5**

Epilepsy care after a major natural disaster

Chairs: Sunao Kaneko, Japan & Sam Wiebe, Canada

Epilepsy care after the earthquake in Haiti
Lionel Carmant, Canada

Epilepsy care after the earthquake in Chile
Carlos Acevedo, Chile

Epilepsy patients in and around the tsunami-devastated area in Japan in 2011
Nobukazu Nakasato, Japan

Epilepsy and natural disasters in Pakistan: earthquake in 2005 and floods in 2010
Hasan Aziz, Pakistan

16:30-17:30 **PRIZE SYMPOSIUM** **Hall 1**

Chair: Timothy Pedley, United States

Winner of the 2011 Morris-Cooles Epilepsia Prize - Laura Jansen, USA
Impaired maturation of cortical GABAergic inhibition in paediatric epilepsy

Winner of the 2011 Michael Prize - Eleonora Aronica, Netherlands
The Michael Lecture: Focal lesions in human epilepsy: a molecular and neuropathological perspective

18:00-19:30 **UCB PHARMA SATELLITE SYMPOSIUM** **Hall 1**

Tailoring treatment to the individual patient with epilepsy: a new era for optimising control

Chair: Philippe Ryvlin, France

Ancient drugs in 2011: first becomes last? - selecting an optimal therapeutic choice
Patrick Kwan, Hong Kong

Treating to achieve control: optimising therapy from a clinician's point of view
Konrad Werhahn, Germany

Emerging insights from an online epilepsy community – what can we learn from patients?
Jamie Heywood, USA

TUESDAY 30th AUGUST

07:30-09:00 VIDEO SESSION (*Organised in conjunction with the Italian League against Epilepsy*)
Clinical semiology of epileptic and related conditions: **Hall 3**

Emotional brain and seizure semiology

Chair: Eugen Trinka, Austria

Speakers:

Elena Gardella, Italy

Antonio Gil-Nagel, Spain

Eugen Trinka, Austria

07:30-09:00 TEACHING SESSION **Hall 4**

Epilepsy Genetics at the Clinic - 2011

Chair: Sam Berkovic, Australia

Epilepsy genetics for the adult epileptologist

Sam Berkovic, Australia

Infantile epileptic encephalopathies - genetics and the impact of the new terminology for classification

Ingrid Scheffer, Australia

GLUT1: a surprisingly important player in epilepsy with treatment implications

Peter De Jonghe, Belgium

07:30-09:00 "HOW TO" SERIES **Hall 5**

Starting an epilepsy surgery programme:

Which patients can have surgery without invasive evaluation, which cannot?

Chair: Giorgio Lo Russo, Italy

Speakers:

Philippe Kahane, France

Çigdem Özkara, Turkey

Giorgio Lo Russo, Italy

07:30-09:00 CASE ORIENTED LEARNING SERIES **Hall 6**

Diagnosis and management of epilepsy and sleep:

Is it focal or generalised epilepsy? How EEG and polygraphy can help

Chair: Edward Bertram, United States

Speakers:

Guido Rubboli, Italy

Shih Hui Lim, Singapore

Edward Bertram, USA

08:00-09:00 **ELEKTA BREAKFAST SYMPOSIUM** **Hall 2**
**Clinical application of Magnetoencephalography (MEG) for refractory epilepsy:
Advances in functional mapping and localization of the epileptogenic zone**
Chair: Richard Burgess, USA

Magnetoencephalography: theory and non-invasive functional mapping
Xavier De Tiège, Belgium

Use of MEG for preoperative evaluation of epilepsy patients: indications, workflow,
analysis, and value
Richard Burgess, USA

09:00-11:00 **PLENARY SESSION** **Hall 1**
When do we consider epilepsy cured?
Chairs: Ettore Beghi, Italy & Gary Mathern, USA

How should we define a “cure” for epilepsy?
Gary Mathern, USA

Remission and long-term prognosis of epilepsy syndromes: current cohort and
epidemiological evidence
Ettore Beghi, Italy

Long-term prognosis in epilepsy patients: does surgery “cure” epilepsy?
Taisuke Otsuki, Japan

Can epileptogenesis be “cured” by prevention? Evidence from animal studies
Asla Pitkänen, Finland

How does epilepsy “cure” impact a person’s social life?
Mary-Lou Smith, Canada

09:00-11:00 **PLENARY SESSION** **Hall 2**
Impaired consciousness in epilepsy: mechanisms and clinical significance
Chairs: Fabienne Picard, Switzerland & Hal Blumenfeld, USA

Functional anatomy of disorder of consciousness
Steven Laureys, Belgium

Neuroimaging, the default mode network and unconsciousness in generalized
epilepsy
Jean Gotman, Canada

Electrophysiology of impaired consciousness in focal epilepsy
Fabrice Bartolomei, France

From basic mechanisms to impaired driving in epileptic unconsciousness
Hal Blumenfeld, USA

11:30-13:00

PARALLEL SESSION

Hall 1

Sudden Unexpected Death in Epilepsy: SUDEP

Chairs: Lina Nashef, United Kingdom & Masako Watanabe, Japan

Incidence and predisposing factors

Torbjörn Tomson, Sweden

Basic Mechanisms of SUDEP: can we predict and prevent?

Alicia Goldman, USA

The MORTEMUS experience

Philippe Ryvlin, France

Facing the facts

Jane Hanna, UK

11:30-13:00

PARALLEL SESSION

Hall 2

Epileptic encephalopathies: a progressive disorder in non progressive diseases

Chairs: Giuseppe Capovilla, Italy & Federico Vigevano, Italy

Introduction to the topic

Giuseppe Capovilla, Italy

Modeling infantile spasms to discover treatments and cures

Aristea Galanopoulou, USA

Pathophysiology of psychomotor regression in epileptic encephalopathies: FDG-PET and EEG-fMRI data

Patrick Van Bogaert, Belgium

Does treatment make a difference?

Federico Vigevano, Italy

11:30-13:00

PARALLEL SESSION

Hall 3

Novel strategies for repairing the epileptic brain: viral vectors, stem cells, anti-inflammatory agents and optogenetics

Chairs: Annamaria Vezzani, Italy & H Steve White, United States

Viral vector-based gene therapy for epilepsy

Michele Simonato, Italy

Stem cell-based therapy for epilepsy

Scott Baraban, USA

Anti-inflammatory treatment of epilepsy

Teresa Ravizza, Italy

Optogenetic control of epileptiform activity

Merab Kokaia, Sweden

11:30-13:00

PARALLEL SESSION

Hall 4

Status Epilepticus: London Colloquium Report

Chairs: Simon Shorvon, United Kingdom & Eugen Trinka, Austria

Current concepts and basic mechanisms of status epilepticus

Dan Lowenstein, USA

Treatment of status epilepticus: an update

Reetta Kälviäinen, Finland

Treatment of status epilepticus in resource-restricted environments

Nadir Bharucha, India

How can protocols be designed for different populations and ages?

Eugen Trinka, Austria

11:30-13:00

PARALLEL SESSION

Hall 5

"An investment in knowledge pays the best interest" (Benjamin Franklin)

Chair: Mike Glynn, Ireland

Promising Strategies Programme: why, who and how

Mike Glynn, Ireland

All about Juanito: epilepsy in animation

Tomás Mesa, Chile

Empowerment through training bears a fruitful harvest

Anthony Zimba, Zambia

Artistic Licence: crafting a future in China

Ding Ding, China

11:30-13:00

PARALLEL SESSION

Hall 6

Epilepsy: alternative, spiritual and traditional therapies

Chair: Alicia Bogacz, Uruguay & Jerome Engel Jr., United States

Traditional remedies in Asia

Shunglon Lai, Taiwan

Traditional remedies in Latin America

Alicia Bogacz, Uruguay

Traditional remedies in Africa

Mpoe Johanna Keikelame, South Africa

Is there a role for contemplative practices in the treatment of epilepsy?

Jerome Engel Jr., USA

Pharmacotherapy

Chair: Michel Baulac, France

- 019** **Patterns of treatment response in newly diagnosed epilepsy**
Brodie M¹, Barry SJ¹, Bamagous G¹, Norrie J¹, Kwan P²
¹United Kingdom, ²Hong Kong
- 020** **Use of peramppanel, a selective, non-competitive AMPA receptor antagonist, as adjunctive therapy in patients with refractory partial-onset seizures: results of a global phase III study**
French J¹, Elger C², Goldberg-Stern H³, Thomson A⁴, Krauss GL¹, Labiner D¹, Squillacote D¹, Yang H¹, Kumar D¹, Laurenza A¹
¹ USA, ² Germany, ³ Israel, ⁴ Argentina
- 021** **An evaluation of efficacy and safety of adjunctive eslicarbazepine acetate in three double-blind clinical studies on patients with partial-onset seizures unsatisfactorily treated with carbamazepine**
Halasz P¹, Ben-Menachem E², Gil-Nagel A³, Gabbai AA⁴, Almeida L⁵, Moreira J⁵, Soares-da-Silva P⁵
¹Hungary, ²Sweden, ³Spain, ⁴Brazil, ⁵ Portugal
- 022** **Successful use of Fenfluramine as add-on treatment in Dravet syndrome**
Ceulemans B, Boel M, Leyssens K, Van Rossem C, Neels P, Jorens PG, Lagae L³
Belgium
- 023** **Long-term safety and efficacy of oral everolimus in the treatment of patients with subependymal giant cell astrocytomas in tuberous sclerosis complex: results from an open-label, extension phase of a prospective, phase I-II study**
Krueger DA, Care MM, Holland-Bouley K, Agricola K, Tudor C, Mangeshkar P, Wilson K, Weber-Byars A, Sahnoud T, Franz DN
USA
- 024** **Prenatal exposure to antiepileptic drugs: cognitive functioning at six years of age**
Bromley RL, Shallcross R, Gummery A, Mawer G, Clayton-Smith J, Briggs M, Cheyne C, García-Fiñana M, Baker G, Liverpool and Manchester Neurodevelopment Group
United Kingdom
- 869** **Comparison of zonisamide and carbamazepine monotherapy in adults with newly diagnosed partial epilepsy: preliminary results of a phase III, randomised, double-blind, non-inferiority trial**
Baulac M
France

Global outreach

Chairs: Shunglon Lai, Taiwan & Marco Tulio Medina, Honduras

- 025** **The prevalence of epilepsy, treatment gap and education levels of people living with epilepsy in Malawi**
Amos A¹, Wapling L²
¹Malawi, ²United Kingdom
- 026** **An anthropological study on epilepsy among Guaraní communities in Bolivia**
Bruno E¹, Bartoloni A¹, Sofia V¹, Rafael F², Magnelli D¹, Ortiz E³, Padilla S³, Quattrocchi G¹, Bartalesi F¹, Segundo H³, Zappia M¹, Preux PM², Nicoletti A¹
¹Italy, ²France, ³Bolivia
- 027** **Epilepsy awareness amongst students: an observation in metropolitan city of Delhi, India**
Bala K, Khurana S, Sharma V, Singh R
India
- 028** **The risk factors for epilepsy treatment gap and non-adherence to anti-epileptic drugs in Kilifi, Kenya**
Mbuba CK¹, Ngugi AK¹, Muchohi SN¹, Edwards T², Odermatt P³, Carter JA², Newton CR¹
¹Kenya, ²United Kingdom, ³Switzerland
- 029** **Factors influencing the development of the perceived stigma in people with newly diagnosed epilepsy: the one year prospective study**
Lee S-A, No S-K, Kim O-J, Kwon J-H, Park H-K, Ryu JY, Jo K-D, Lee S-M, Kim W-J, Kwon O-Y
South Korea
- 030** **Women with epilepsy: how knowledgeable are they about issues related to pregnancy in epilepsy?**
Jette N, Metcalfe A, Roberts J, Abdulla F, Hanson A, Federico P, Wiebe S
Canada

14:00–15:30 **PLATFORM SESSION 6**

Hall 4

Neurodiagnostics

Chairs: Guido Rubboli, Italy & Jean Gotman, Canada

- 031** **Integrative analysis of PET, ECoG and DTI data in order to assess the spatial relationship between multi-modality data sets in children with epilepsy**
Muzik O, Pai D, Juhasz C, Hua J
USA
- 032** **Simple visual assessment of intracerebrally recorded high frequency oscillations versus their automated detection**
Brazdil M, Pail M, Halamek J, Daniel P, Kuba R, Tyrlikova I, Chrastina J, Jurak P
Czech Republic
- 033** **What is the ideal time to perform postoperative electroencephalogram following anterior temporal lobectomy?**
Rathore C, Radhakrishnan K
India
- 034** **Pre and post-operative interictal EEG discharges as predictors of seizure control after surgery in mesial temporal lobe epilepsy associated with hippocampal sclerosis**
Barbosa PH, Morita ME, Lizcano A, Yasuda CL, Cendes F
Brazil
- 035** **High density simultaneous EEG-fMRI in focal epilepsy: ESI-fMRI for improved characterisation of interictal events**
Vogrin SJ¹, Lau S², D'Souza W¹, Kuhlmann L², Haueisen J², Cook MJ¹
¹Australia, ²Germany
- 036** **Seizure-association fibers in patients with chronic focal seizures: *in vivo* neural connectivity study and tensor imaging study**
Chuang M-F, Hsin YL
China

16:00-17:30

EISAI EUROPE LTD. SATELLITE SYMPOSIUM

Hall 1

Optimising care for epilepsy patients: looking beyond AED efficacy

Chair: Joyce Cramer, USA

Understanding our patients: do we need to improve communication?

Frank Gilliam, USA

Matching drugs to patients with newly diagnosed and refractory epilepsy

Martin Brodie, UK & Antonio Gil-Nagel, Spain

Epilepsy patient care: a multi-disciplinary approach

Sophie Dupont, France and Melesina Goodwin, UK

18:00-19:30

GLAXOSMITHKLINE SATELLITE SYMPOSIUM

Hall 1

Add-on therapy for focal epilepsy: working towards a rational choice

Chair: Ettore Beghi, Italy

How can preclinical studies inform the choice of add-on therapy?

Graeme Sills, UK

Does mechanism of action matter in clinical practice?

Philippe Ryvlin, France

Emerging targets and mechanisms in add-on therapy

Holger Lerche, Germany

WEDNESDAY 31st AUGUST

- 07:30-09:00** **"HOW TO" SERIES** **Hall 2**
Starting an epilepsy surgery programme:
Psychiatric and psychosocial aspects of epilepsy surgery: pre and post-surgical
Chair: Chong-Tin Tan, Malaysia
- Speakers:*
Andres Kanner, USA
P Satish Chandra, India
Chong-Tin Tan, Malaysia
- 07:30-09:00** **VIDEO SESSION** (*Organised in conjunction with the Italian League against Epilepsy*)
Clinical semiology of epileptic and related conditions: **Hall 3**
Automatic behaviours in epilepsy and sleep
Chair: Athanasios Covanis, Greece
- Speakers:*
Carlo Alberto Tassinari, Italy
- Athanasios Covanis, Greece*
- 07:30-09:00** **CASE ORIENTED LEARNING SERIES** **Hall 4**
Diagnosis and management of epilepsy and sleep:
Epilepsy and sleep: what are we treating and with what effect?
Chair: Lino Nobili, Italy
- Speakers:*
Al de Weerd, Netherlands
Anna Kelemen, Hungary
Lino Nobili, Italy
- 07:30-09:00** **ELECTRICAL GEODESICS, INC. (EGI) BREAKFAST SYMPOSIUM** **Hall 5**
Advanced EEG... the clinical contribution
Chair: Paolo Manganotti, Italy
- Applying Electrical Source Imaging (ESI) in pre-surgical planning
Margitta Seeck, Switzerland
- Comparison of source localization results from dense array EEG, IC electrodes, depth electrodes and traditional EEG
Takamichi Yamamoto, Japan
- The role of dense array EEG in the presurgical evaluation
Mark Holmes, USA

07:30-09:00 **TEACHING SESSION** **Hall 6**
Synergising and advocacy: bringing IBE and ILAE together at a national and regional level

Chair: Janet Mifsud, Malta

Why synergise and advocate?
Janet Mifsud, Malta

Introducing Canadian youth to careers in epilepsy through the 'Brain Matters' programme
Mary Secco, Canada

Building bridges between the two epilepsy organisations in India: a rewarding journey
Vinod Saxena, India

09:00-11:00 **PLENARY SESSION** **Hall 1**
Predicting the unpredictable: the adverse effects of treatments

Chairs: Heidrun Potschka, Germany & Patrick Kwan, Hong Kong

Adverse effects of AEDs: impact on quality of life and drug choice
Frank Gilliam, USA

Predicting AED adverse effects: it's all in the drug?
Heidrun Potschka, Germany

Predicting AED idiosyncratic reactions: it's all in the genes?
Patrick Kwan, Hong Kong

Predicting adverse AED interactions
Meir Bialer, Israel

09:00-11:00 **PLENARY SESSION** **Hall 2**
Epilepsy during puberty - the wonder years

Chairs: Eduardo Barragán, Mexico & Dana Craiu, Romania

Why and what etiologies
Karen Ballaban Gil, United States

How is basic science influencing our understanding of epilepsy concepts and terminology in epilepsies of adolescence?
Astrid Nehlig, France

Therapeutic choices in epilepsy during puberty. What and why?
Dana Craiu, Romania

Social issues in the wonder years
Eduardo Barragán, Mexico

11:30-13:00 **POST PRESIDENTIAL SYMPOSIUM** **Hall 1**

Epilepsy destroys lives part 2

Chairs: Tarun Dua, WHO Switzerland & Dale Hesdorffer, USA

The Chinese experience
Sichuo Li, China

The Brazilian experience
Li Li Min, Brazil

The European initiative
Michel Baulac, France

The North American initiative and the Institute of Medicine (IOM) report
Frances Jensen, USA

11:30-13:00 **PARALLEL SESSION** **Hall 2**

Neurodevelopmental comorbidities in children

Chairs: Perrine Plouin, France & Renzo Guerrini, Italy

Autism and epilepsy: reality or fashion?
Roberto Tuchman, USA

ADHD and learning disorders: are they important in patients with epilepsy?
Alexis Arzimanoglou, France

Psychiatric medication in children with epilepsy: is it safe to use?
Varda Gross-Tsur, Israel

11:30-13:00 **PARALLEL SESSION** **Hall 3**

Antiepileptic drug discovery and development: what are the challenges in the current environment?

Chairs: Wolfgang Löscher, Germany & Meir Bialer, Israel

Animal seizures and epilepsy models – what do they really tell us about clinical efficacy?
H Steve White, USA

From understanding the pathophysiology of refractory focal onset epilepsy to development of more effective therapies
Wolfgang Löscher, Germany

Investigational AEDs in the pipeline: will they make a difference for the patient with refractory epilepsy?
Bernd Schmidt, Germany

New challenges in demonstrating clinical efficacy in refractory epilepsies
Jacqueline French, USA

- 11:30-13:00** **PARALLEL SESSION** **Hall 4**
Brain tumours and epilepsy: a mechanistic perspective
Chairs: Rudiger Kohling, Germany & Eleonora Aronica, Netherlands
- Pathophysiological and peritumoral changes underlying tumour-related epilepsy
Harald Sontheimer, USA
- Mechanisms of tumour-associated ictogenesis
Rüdiger Köhling, Germany
- Insights from neuropathological studies in humans
Eleonora Aronica, Netherlands
- Rational seizure control in brain cancer
Charles J Vecht, Netherlands
- 11:30-13:00** **PARALLEL SESSION** **Hall 5**
Bridging basic and clinical epileptology in Africa
Chairs: Pierre Marie Preux, France & Anthony Zimba, Zambia
- Managing epilepsy in Africa: problems and future perspectives
Albert Akpalu, Ghana
- Epilepsy in malaria and other infections
Charles Newton, Kenya
- Anti-convulsant African plants
Elisabeth Ngo Bum, Cameroon
- Animal models of epilepsy and the potential of African investigators
Marina Bentivoglio, Italy
- 11:30-13:00** **PARALLEL SESSION** **Hall 6**
Functional genomics of epilepsy: how EPICURE advanced our knowledge
Chairs: Janet Mifsud, Malta & Giuliano Avanzini, Italy
- The power of an integrated approach involving geneticists, neurophysiologists and clinicians
Giuliano Avanzini, Italy
- Strategies for identification of epilepsy genes: results and perspectives
Thomas Sander, Germany
- Functional study of epilepsy genes
Massimo Mantegazza, Italy
- Modelling genetically determined abnormalities of the cerebral cortex
Alfonso Represa, France
- 12:00-16:00** **IBE GENERAL ASSEMBLY** **Bramante 6 &7**
14:00-16:00 **ILAE GENERAL ASSEMBLY** **Hall 5**

Genes and mutations*Chairs: Sam Berkovic, Australia & Amedeo Bianchi, Italy*

- 037** **Whole exome sequencing implicates *SLC25A22* as a gene for MMPEI**
Poduri A¹, Heinzen EL¹, Salih MA², Chitsazzadeh V¹, Hill RS¹, Elhosary PC¹, Barry BJ¹, Partlow JN¹, Ge D¹, Shianna KV¹, Bashiri FA², Zeidan RM², Elmalik SA², Kabiraj MMU², Stöberg T³, Scheffer IE³, Barkovich AJ¹, Goldstein D¹, Walsh CA¹
¹USA, ² Saudi Arabia, ³Australia
- 038** **Cerebral microdysgenesis in refractory epilepsy patients with *SCN1A* mutations**
Skjei K, Harding B, Marsh E
USA
- 039** ***KCNQ2* mutations are a cause of neonatal epileptic encephalopathies with a clinical and radiological phenotype**
Weckhuysen S^{1,2}, Mandelstam S³, Suls A¹, Audenaert D¹, Deconinck T¹, Claes L¹, Deprez L¹, Smets K¹, Hristova D⁴, Yordanova I⁴, Jordanova A¹, Ceulemans B¹, Jansen A¹, Hasaerts D¹, Roelens F¹, Lagae L¹, Yendle S³, Stanley T⁵, Heron S³, Mulley J³, Berkovic S³, Scheffer I³, De Jonghe P¹
¹Belgium, ²Netherlands, ³Australia, ⁴Bulgaria, ⁵New Zealand
- 040** **Epileptic and non epileptic features in patients with early onset epileptic encephalopathy and *STXBP1* mutations**
Milh M, Villeneuve N, Mondher C, Kaminska A, Larroche C, Gitiaux C, Borges-Correia Cacciagli P, Mignon-Ravix C, Cuberos H, Chabrol B, Villard L
France
- 041** **Expansion of the phenotype associated with *PCDH19*-mutations**
Hjalgrim H¹, Dibbens LM², Scheffer IE², Olofsson K¹, Nikanorova M¹, Jepsen B¹, Møller RS¹
¹Denmark, ²Australia
- 042** **Association of Interleukin-6 polymorphism with susceptibility to febrile seizures**
Choi J, Kim K-J, Hwang Y-S
South Korea

14:30–16:00

PLATFORM SESSION 8

Hall 3

Surgery: who are the best candidates, beyond resections and outcomes

Chairs: Tatsuya Tanaka, Japan & Bernard Steinhoff, Germany

- 043** **Temporal lobe epilepsy surgery in the sixth decade and beyond**
Pillay N, Avendano R, Partlo L, Hader W, Wiebe S
Canada
- 044** **Which frequency comes first in intracranial EEG ictal onset: high or low?**
Chung JM, Tsuchiya N, Maoz U, Tudusciuc O, Mamelak AN, Eliashiv D
USA
- 045** **[¹⁸F]GE-179 PET demonstrates increased NMDA receptor availability in patients with refractory epilepsy and frequent interictal epileptiform discharges (IEDs)**
McGinnity CJ¹, Hammers A², Riaño Barros DA¹, Gousias IS¹, Luthra SK¹, Jones PA¹, Trigg W¹, Brooks DJ¹, Koepp MJ¹, Duncan JS¹
¹United Kingdom, ²France
- 046** **Neural networks underlying seizures from the motor system: quantification and classification from intracerebral recordings**
Bonini F, McGonigal A, Gavaret M, Regis J, Wendling F, Chauvel P, Bartolomei F
France
- 047** **Alterative treatment of intractable epilepsy with focal brain cooling**
Fujii M, Inoue T, HE Y, Imoto H, Tanaka N, Oku T, Maruta Y, Koizumi H, Nomura S, Owada Y, Saito T, Yamakawa T, Tokiwa T, Yamakawa T, Suzuki M, Consortium of Advanced Epilepsy Treatment (CADET)
Japan
- 048** **Prevalence of psychiatric disorders before and after corticoamygdalohippocampectomy: study of 115 patients with refractory temporal lobe epilepsy and mesial temporal sclerosis**
Mazetto L, Lobato FG, Marinho MM, Caboclo LOS, Yacubian EMT, Centeno RS, De Araujo Filho GM
Brazil

14:30–16:00 **PLATFORM SESSION 9**

Hall 4

Epilepsy syndromes

Chairs: Holger Lerche, Germany & Edouard Hirsch, France

- 049** **Incidence and classification of new-onset epilepsy and epilepsy syndromes in children in Olmsted county, Minnesota from 1980-2004: a population-based study**
Wirrell EC, Grossardt B, Wong-Kisiel L, Nickels KC
USA
- 050** **Natural history and long-term evolution in families with autosomal dominant cortical tremor, myoclonus, and epilepsy**
Coppola A, Santulli L, Del Gaudio L, Minetti C, Striano S, Zara F, Striano P
Italy
- 051** **Stormy onset epilepsy in girls with *de novo* protocadherin 19 mutations**
Specchio N, Terracciano A, Marini C, Mei D, Trivisano M, Sicca F, Fusco L, Granata T, Freri E, Cusmai R, Darra F, Dalla Bernardina B, Guerrini R, Bertini E, Vigeveno F
Italy
- 052** **Prospective analysis of familial mesial temporal lobe epilepsy**
Morita ME, Yasuda CL, Betting LEG, Costa ALF, Kobayashi E, Lopes-Cendes I, Cendes F
Brazil
- 053** **Malformations of cortical development and epilepsy: clinical, electrophysiological, radiological profile and predictors of remission**
Sattaluri SJ, Krishna M, Panigrahi M, Ram Mohan V, Varma R
India
- 054** **Detailed video-EEG characterization and clinical aspects in 25 children with neonatal onset epileptic encephalopathy and suppression burst pattern**
Eisermann M, Kaminska A, Plouin P, Dulac O, Nabbout R
France

16:30-18:00

BIOCODEX SATELLITE SYMPOSIUM

Hall 3

Dravet syndrome: addressing the needs of patients and families

Chairs: Charlotte Dravet, France & Renzo Guerrini, Italy

Diagnosis and long-term course

Ingrid Scheffer, Australia

Helping families cope with the devastation of Dravet syndrome

Peter Camfield, Canada

Stiripentol: an example of antiepileptic drug development in childhood epilepsies

Rima Nabbout, France

16:30-18:00

NOVARTIS SATELLITE SYMPOSIUM

Hall 4

Advancing the treatment of neuropathologies through targeting of the mTOR pathway

Chair: Aristeia Galanopoulou, USA

Infantile spasms and epilepsy associated with Tuberous Sclerosis Complex

Paolo Curatolo, Italy

The role of mTOR in TSC – evidence and clinical implications

Sergiusz Jóźwiak, Poland

The mTOR pathway: future perspectives in neuroscience

Aristeia Galanopoulou, USA

THURSDAY 1st SEPTEMBER

07:30-09:00 **"HOW TO" SERIES** **Hall 3**

Starting an epilepsy surgery programme:
Children are not small adults: starting paediatric epilepsy surgery
Chair: Helen Cross, United Kingdom

Speakers:
Gary Mathern, USA
Olivier Delalande, France
Helen Cross, UK

07:30-09:00 **VIDEO SESSION** (*Organised in conjunction with the Italian League against Epilepsy*)
Clinical semiology of epileptic and related conditions: **Hall 4**

Neonatal seizures and epilepsies
Chair: Perrine Plouin, France

Speakers:
Maria Roberta Cilio, Italy
Akihisa Okumura, Japan
Perrine Plouin, France

07:30-09:00 **TEACHING SESSION** **Hall 5**

Updating epileptogenic mechanisms
Chair: Terence O'Brien, Australia

Circuit reorganization, receptor and synaptic plasticity and changes in intrinsic excitability during acquired epileptogenesis
Jaideep Kapur, USA

What can animal models tell us about epileptogenic mechanisms underlying polygenic generalized epilepsy
Terence O'Brien, Australia

Molecular target search for antiepileptogenesis - where are we now?
Asla Pitkänen, Finland

07:30-09:00 **CASE ORIENTED LEARNING SERIES** **Hall 6**

Diagnosis and management of epilepsy and sleep:
Epilepsy, sleep and learning: what and how to treat
Chair: Lieven Lagae, Belgium

Speakers:
Michalis Koutroumanides, UK
Lieven Lagae, Belgium
Dana Craiu, Romania

09:00-11:00

PLENARY SESSION

Hall 3

Challenges in developing a new approach for classification in epilepsy

Chairs: Anne Berg, United States & Giuseppe Capovilla, Italy

Introduction to the new ILAE classification of the epilepsies: why is it time for change?

Ingrid Scheffer, Australia

Impact of genetics on classification of the epilepsies

Sam Berkovic, Australia

Impact of neuroimaging on the classification of the epilepsies

John Duncan, UK

How does the classification system impact on basic research and animal models?

Marco De Curtis, Italy

Tailoring the new classification for diagnosis and global outreach

Sam Wiebe, Canada

The new organization: pros

Edouard Hirsch, France

The new organization: cons

Sanjay Sisodiya, UK

Round Table: the pros and cons of the new ILAE seizure classification system:

Anne Berg (USA), Sam Berkovic (Australia), Giuseppe Capovilla (Italy), Marco De Curtis (Italy), John Duncan (UK), Edouard Hirsch (France), Ingrid Scheffer (Australia), Sanjay Sisodiya (UK), Sam Wiebe (Canada)

09:00-11:00

PLENARY SESSION

Hall 4

Older, slowing down and seizing up - epilepsy strikes again

Chairs: Carlos Acevedo, Chile & Simon Shorvon, UK

Why do old people have seizures?

Simon Shorvon, UK

What is it about aging which predisposes to epilepsy?

Alon Friedmann, Israel

To treat or not to treat?

Günter Krämer, Switzerland

Quality of life and the elderly

Carlos Acevedo, Chile

11:30-13:00 **TEACHING SESSION** **Hall 3**

Multimodal imaging in epilepsy: EEG and beyond

Chair: John Duncan, United Kingdom

Structural MRI + tractography
Fernando Cendes, Brazil

EEG-fMRI and High Frequency EEG
Jean Gotman, Canada

3-D reconstructions of MRI data, including functional MRI and isotope-imaging
John Duncan, UK

11:30-13:00 **TEACHING SESSION** **Hall 4**

Neuroimmunological aspects of epilepsy

Chair: Christian Bien, Germany

Speakers:
Angela Vincent, UK
Annamaria Vezzani, Italy
Christian Bien, Germany

11:30-13:00 **PARALLEL SESSION** **Hall 5**

Advances in dynamic characterization of ictogenesis: the San Servolo Experience

Chair: Marco de Curtis, Italy

Introduction
Giuliano Avanzini, Italy

Neuroimaging of absence epilepsy
Tyanhua Yang, China

Fingerprints of brain activation in epileptic syndromes and encephalopathies
Michael Siniatchkin, Germany

EEG-fMRI: a new insight into focal seizure dynamics
Louise Tyvaert, France

11:30-13:00 **TEACHING SESSION** **Hall 6**

AED kinetics across the ages

Chair: John Pellock, United States

Speakers:
Svein Johannessen, Norway
Torbjörn Tomson, Sweden
John Pellock, USA