30th International Epilepsy Congress
23rd - 27th June, 2013
FINAL PROGRAMME
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Key app features:
- Scientific Programme
- Session Details
- Abstracts
- General Information
- Exhibition Information
- and many more . . .

Download the App for iPhone, iPad, Android Phone/Tablet, Kindle Fire or Windows Phone by searching for "\textbf{30\textsuperscript{th} IEC, Montreal 2013}" in the App Store on your device.

\begin{center}
FREE WiFi for all registered delegates during the congress in the congress venue

Network name: IEC_2013
Password: Montreal
\end{center}

Congress App supported by \textit{Inspired by patients. Driven by science.}
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www.epilepsymontreal2013.org
EPILEPSY AROUND THE WORLD

INTERNATIONAL LEAGUE AGAINST EPILEPSY

www.epilepsymontreal2013.org
A global network of lay epilepsy associations, supporting people with epilepsy, their families and carers, in 93 countries around the world. Are we somewhere near you?
ACKNOWLEDGEMENTS

Honorary Congress Chair
Frederick Andermann (Canada)

The International Organising Committee would like to thank the following people for their contribution towards the congress programme:

International Advisory Committee
Lionel Carmant (Canada), Hanneke de Boer (Netherlands), Ding Ding (China),
Tarun Dua (Switzerland), Paula T. Fernandes (Brazil), Jacqueline French (USA),
Sheryl Haut (USA), Frances Jensen (USA), Astrid Nehlig (France), Jeff Noebels (USA),
Natela Okujava (Georgia), Sharon Whiting (Canada)

Education Committee
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Walter van Emde Boas (Netherlands)

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E. Donner (Canada), L. Bello-Espinosa (Canada), P. Federico (Canada),
P. T. Fernandes (Brazil), J. French (USA), J. Gotman (Canada), A. Guekht (Russian Federation),
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N. Jetté (Canada), M. Jones-Gotman (Canada), A. M. Kanner (USA), M. Kerr (United Kingdom),
H. D. Kim (Republic of Korea), S. Kochen (Argentina), D. Lowenstein (USA),
M. P. McAndrews (Canada), K. J. Meador (USA), H. Mefford (USA), M. Mula (Italy),
R. Nabbout (France), A. Nehlig (France), T. O’Brien (Australia), N. Okujava (Georgia),
P. Osborne Shafer (USA), H. Otsubo (Canada), K. Radhakrishnan (India),
S. Rothe (South Africa), A. Sakamoto (Brazil), L. Sander (United Kingdom),
M. Secco (Canada), H. Senties (USA), M. Simonato (Italy), T. Tomson (Sweden),
KP Vinayan (India), S. Wiebe (Canada), J. Wilmshurst (South Africa), S. Zuberi (United Kingdom)

Poster Tours Selection Committee
Poster Tour Coordinator: José E. Cavazos (USA)

Bursary Selection Committee
Solomon L. Moshe (USA), Emilio Perucca (Italy), Samuel Wiebe (Canada)

60 abstracts have been selected for bursaries by the Bursary Selection Committee. The bursaries covering travel and/or registration and/or accommodation expenses are provided by the ILAE. The list of awardees is available on page 22-23.
WELCOME FROM THE INTERNATIONAL ORGANISING COMMITTEE

Dear Friends and Colleagues,

On behalf of the International Organising Committee, it gives us great pleasure to welcome you to the 30th International Epilepsy Congress (IEC) in the vibrant city of Montreal.

This biennial meeting is unique in that it is the first international ILAE-IBE congress held in North America in the past 30 years. The aim of this congress is to be an instructive and entertaining experience, presenting an excellent opportunity for networking and meeting colleagues from around the world.

The exciting scientific and educational programmes encompass practical and advanced knowledge on the causes and consequences of epilepsy, as well as salient developments in diagnostic and therapeutic interventions. On the causes of epilepsy, topics will include new knowledge on pathophysiology and genetics. Sessions on the consequences of epilepsy will discuss somatic, psychiatric and social comorbidity, as well as mortality. Presentations on advanced diagnostic methods will include progress on presurgical evaluation, advanced imaging, neurophysiology and multimodal co-registration. The area of treatment will explore novel medical and surgical therapies aimed at controlling seizures and improving the quality of life and psychosocial well-being of patients with epilepsy. There is also a strong focus on high quality poster presentations.

The city of Montreal is one of Canada’s most unique and lively cities, offering a perfect blend of the old and new. A city steeped in tradition and home to the Montreal Neurological Institute (MNI) at McGill University, which has become an international centre for teaching, research and treatment related to diseases of the nervous system and brain disorders. The MNI was founded in 1934 by Dr. Wilder Penfield, one of Canada’s foremost neurosurgeons, best known for his discovery of a surgical treatment for epilepsy. The scientific programme acknowledges Dr. Penfield in a special symposium entitled: “The pioneers at the Montreal Neurological Institute: early concepts in today’s practice”.

We invite you to attend the Welcome Ceremony on Sunday 23rd June. The ceremony will feature the presentation of awards given jointly by ILAE and IBE: the Lifetime Achievement Award, the Award for Social Accomplishment in Epilepsy and the Ambassador for Epilepsy Awards. The Michael Prize and the Morris-Coole Epilepsia Prize will also be presented during the ceremony. This will be followed by the Welcome Reception, supported by a kind contribution from Tourisme Montréal.

We sincerely hope that you enjoy your time at the 30th International Epilepsy Congress in Montreal, where scientific excellence meets sheer joie de vivre!

With warm regards,

International Organising Committee

International Organising Committee Members:
Hanneke de Boer (Netherlands), Sandy Finucane (USA), Jean Gotman (Canada), Emilio Perucca (Italy), Grace Tan (Singapore)
WELCOME MESSAGE FROM THE MAYOR OF MONTREAL

Chère participante,  
Cher participant,

Au nom des Montréalaises et des Montréalais, je suis heureux de souhaiter la bienvenue dans notre métropole aux participantes et participants du 30\textsuperscript{th} International Epilepsy Congress.

Je suis convaincu que vous trouverez ici un environnement extrêmement propice à vos échanges car Montréal est une ville de savoir et la recherche de haut niveau y est très développée, en particulier dans les sciences de la santé. De plus, notre métropole est en train de renouveler ses équipements hospitaliers, ce qui rend cette période particulièrement propice aux questionnements et à la réflexion sur les traitements, les avancées scientifiques et technologiques ainsi que l’environnement médical le plus propice aux soins.

Par ailleurs, comptant parmi les villes les plus anciennes d’Amérique du Nord et se trouvant au carrefour des influences américaines et européennes, Montréal possède à maints égards une personnalité originale. Métropole culturelle très animée en toute saison, cosmopolite et ouverte sur le monde, la ville la plus francophone du continent a su développer un art de vivre qui lui est propre. En vous souhaitant un excellent séjour et des échanges fructueux, je vous invite donc à profiter de votre passage pour découvrir ou redécouvrir une ville qui ne cesse d’évoluer, de s’embellir et de renforcer ses atouts dans tous les domaines. Je suis convaincu que vous serez particulièrement séduits par sa gastronomie, son quartier historique inscrit au patrimoine mondial de l’UNESCO, son nouveau Quartier des spectacles, ses terrasses et ses festivals reconnus internationalement.

Mes meilleurs vœux de succès accompagnent tous ceux et celles qui ont pris part à l’organisation de cette importante rencontre.

Bon congrès!

Michael Applebaum  
Maire de Montréal
Dear Participants,

On behalf of all Montrealers, I am pleased to welcome participants to the 30th International Epilepsy Congress to our metropolis.

I am certain our atmosphere will prove conducive to your deliberations, since Montreal is a centre of knowledge and advanced research, particularly in the health sciences. As our city is also engaged in upgrading its leading hospital facilities, this is an excellent time to rethink treatments, scientific and technological progress and the best medical environment for care.

Furthermore, as one of North America’s oldest cities, situated at a crossroads of American and European influences, Montreal has a unique character. A thriving cultural hub at any time of year, with a cosmopolitan flair and window on the world, the continent’s most populous French-speaking city has developed a distinct art of living.

I wish you an excellent stay and productive discussions. I also hope will you profit from your visit by discovering or rediscovering a city that continues to evolve, grow ever more beautiful and build on its assets in all fields. I know you will be particularly delighted by our fine dining, our historic district (a UNESCO World Heritage site), our new Quartier des spectacles, our outdoor cafés and our internationally acclaimed festivals.

I wish great success to all those taking part in this important meeting.

Have an excellent event!

Michael Applebaum
Mayor of Montreal
WELCOME MESSAGE FROM TOURISME MONTRÉAL

Dear All,

On behalf of Tourisme Montréal and all of our tourism industry professionals, I would like to welcome you to Montreal for the 30th International Epilepsy Congress.

Home to thriving academic, scientific and research communities, Montreal is the perfect setting for collegial encounters and stimulating exchanges of ideas during the congress. As well, with its multicultural, multilingual population and lively, welcoming atmosphere, you are sure to feel at home as you explore the streets and neighbourhoods of our city.

Montreal is internationally renowned for its fabulous festivals, gourmet food, and exciting cultural scene. And summer is a wonderful time to visit Montreal, as the festival season is in full swing and the city is alive with vast range of summer activities for every taste and interest. I hope you will consider extending your stay to take in some of the world-class musical performances at the 34th Edition of the Festival International de Jazz de Montréal, which begins on June 28th in the heart of the Quartier des spectacles, our new entertainment district.

We wish you a successful congress and invite you to take some time to discover some of the many attractions that Montreal has to offer.

Enjoy your stay!

The Honourable Charles Lapointe, P.C.
President and Chief Executive Officer

The International League Against Epilepsy (ILAE) and the International Bureau for Epilepsy (IBE) would like to thank Tourisme Montréal for their contribution to the IEC.
GENERAL CONGRESS INFORMATION

Facilities Timetable

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<tr>
<td>Lunch</td>
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<td>13:00-14:30</td>
<td>13:00-14:30</td>
<td>13:00-14:30</td>
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<tr>
<td>Poster Display</td>
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<td>10:00-17:00</td>
<td>10:00-17:00</td>
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<tr>
<td>Exhibition</td>
<td>-</td>
<td>09:00-17:00</td>
<td>09:00-17:00</td>
<td>09:00-17:00</td>
<td>09:00-12:00</td>
</tr>
<tr>
<td>Internet Centre</td>
<td>-</td>
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<td>09:00-17:00</td>
<td>09:00-12:00</td>
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<td>Speakers’ Room</td>
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Certificate of Attendance
Attending delegates are entitled to receive a Certificate of Attendance. The Certificate (including CME details) will be provided when collecting your congress name badge or registering for the congress.

Cloakroom
A cloakroom for coats and luggage is available on Level 2 of the Palais des congrès de Montréal. The cloakroom will be open on Wednesday and Thursday.

Exhibition
The Exhibition Area is situated on Level 5 of the Palais des congrès de Montréal. Exhibition opening times are listed on the Facilities Timetable Overview.

IBE General Assembly
The IBE General Assembly will take place on Wednesday, 13:00 - 17:00, in room 515abc of the Palais des congrès de Montréal. The IBE General Assembly is open to IBE Member Association representatives only and all representatives are invited to attend. Lunch will be provided.

ILAE General Assembly
The ILAE General Assembly will take place on Wednesday, 17:00 – 18:30, in Hall 7 of the Palais des congrès de Montréal. The ILAE General Assembly is open to ILAE Chapter representatives only and all representatives are invited to attend.

Internet Centre
The Internet Centre is located by the Poster Area in the Exhibition Area, situated on Level 5 of the Palais des congrès de Montréal.

Please note that the information contained in this programme may be subject to change. Please check www.epilepsymontreal2013.org for the latest updates.
Language
The official language of the congress is English; please note that translation facilities will not be provided.

Liability and Insurance
The International League Against Epilepsy (ILAE) and the International Bureau for Epilepsy (IBE) and their agents do not accept any liability whatsoever for death, personal injury, accidents, theft, loss or damage to persons, property or belongings of participants or accompanying persons, either before, during or following the congress, tours or their stay in Montreal. It is therefore recommended that participants arrange their own personal health, accident and travel insurance.

Lunches and Coffee Breaks
Lunches will be served Monday - Wednesday and Coffee Breaks Monday - Thursday morning in the Exhibition Area, situated on Level 5 of the Palais des congrès de Montréal.

Posters
Posters are exhibited in the Poster Area, adjacent to the Exhibition Area, situated on Level 5 of the Palais des congrès de Montréal. Posters will be on display from 10:00 - 17:00 on Monday, Tuesday and Wednesday. Poster presenters are required to set up their posters between 09:00 - 10:00 each morning. Posters must be removed each evening between 17:00 - 18:00.

Registration
The Registration Area is located on Level 5 of the Palais des congrès de Montréal; congress bags can also be collected from this point. Please note that name badges must be worn at all times.

Secretariat Office
Members of the Congress Secretariat can be contacted at the Registration Area, which is located on Level 5 of the Palais des congrès de Montréal.

For queries arising after the congress, please contact:

30th IEC Montreal 2013
ILAE / IBE Congress Secretariat
7 Priory Hall
Stillorgan Road
Blackrock
Co. Dublin
Tel : + 353 1 2056720
Fax : + 353 1 2056156
Email : montreal@epilepsycongress.org

Smoking Policy
The Palais des congrès de Montréal is a non-smoking area.
Speakers’ Room
The Speakers’ Room is located in room 512d on Level 5 of the Palais des congrès de Montréal (beside Hall 7). Opening times are listed on the Facilities Timetable Overview. Facilities to review and amend presentations are available to all speakers and technical assistance will also be provided in this room. Please note that all speakers should submit their final PowerPoint presentation(s) to the Speakers’ Room no less than 3 hours in advance of their session. Speakers at early morning sessions are required to submit their material no later than 17:00 on the evening before their session is scheduled.

Special Displays
IBE Milestones Walkway
Since 1961, IBE has reached several important milestones in its busy history. These significant events will be celebrated with a ‘Milestones Walkway’ designed to allow passersby to grab a glimpse of a significant date or period in IBE’s history. The Milestones Walkway is located close to the Registration Area on Level 5.

Stand Up For Epilepsy Photography Exhibition
The ILAE, through the taskforce on Sports and Epilepsy, has produced a photography exhibition entitled ‘Stand Up For Epilepsy’. The collection features people with epilepsy alongside some of the biggest names from the sporting world. The collection will be on display for the duration of the congress and is located on Level 5 of the congress venue. A commemorative book, which celebrates the ‘Stand Up For Epilepsy’ exhibition, is available to all delegates from the ILAE-IBE exhibition booth.

Painting on display ‘Epilepsy, leaving the nightmare behind’ (2013)
A painting by the Mexican artist Eduardo Urbano Merino will be on display throughout the congress in the Exhibition Hall on Level 5. The painting is a contemporary art piece representing epilepsy surgery.

Scientific Exhibits
Sponsored Scientific Exhibits of posters will take place at the following times:

<table>
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<tr>
<th>Company</th>
<th>Date &amp; time</th>
<th>Room</th>
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<tr>
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<td>Tuesday 25th June, 08:00-13:00</td>
<td>515</td>
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<tr>
<td>Medtronic</td>
<td>Tuesday 25th June, 14:00-17:00</td>
<td>514</td>
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<tr>
<td>UCB Pharma</td>
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**Venue**
Palais des congrès de Montréal
1001 Place Jean-Paul Riopelle
Montreal
QC H2Z 1H2
Canada
Tel: +1 5148718122
Fax: +1 5148719389
Website: www.congresmtl.com

You can find almost everything you need right in the heart of the Palais des congrès de Montréal. ‘Les Galeries du Palais’ is a commercial mall home to approximately 20 service locations and stores, including restaurants and boutiques. The shopping promenade links directly with the city’s underground pedestrian network and the Place-d’Armes metro station.

**Welcome Ceremony and Reception**
The Welcome Ceremony will take place on Sunday 23rd June in Hall 1, 19:00-20:00, on Level 7 of the Palais des congrès de Montréal. The ceremony will open with welcomes from representatives of ILAE and IBE as well as the congress committee. This will be followed by the Awards Ceremony, which will consist of the presentations of the Ambassador for Epilepsy Awards, the Michael Prize, the Morris-Coole *Epilepsia* Prize, the Social Accomplishment Award and the Lifetime Achievement Award.

All delegates are invited to join a Welcome Reception which will be held on the Terrace of the congress venue, also located on Level 7.

**Wheelchair Access**
All entrances of the Palais des congrès de Montréal are wheelchair accessible.

**Wifi**
Free wifi is available to registered delegates in the Palais des congrès de Montréal, for the duration of the congress.

**Network name:** IEC_2013  
**Password:** Montreal

A session planner can be downloaded from the congress website: www.epilepsymontreal2013.org, which will assist you with the planning of your schedule and accessing all scientific session information, such as dates and times of sessions.

**Tourisme Montréal**
For questions regarding ‘where to go?’ and ‘what to do?’ in your leisure time, please go to the Tourisme Montréal Desk located in close proximity to the Registration Area on Level 5.
MONTREAL PRACTICAL INFORMATION

Business Hours
In general, most offices operate between the hours of 09:00 and 17:00, Monday to Friday, although business hours do vary from one industry to another. Please note that Monday 24th June is a public holiday in Quebec.

Communications
The international dialling code for Canada is 1 and then Montreal uses the 514 area code.

Currency, Credit Cards and Exchanging Money
The unit of currency is the Canadian dollar. Coins: 5, 10, 25 cents, $1 and $2. Notes: $5 (blue), $10 (purple), $20 (green), $50 (red) and $100 (brown).

Some shops and businesses are cautious about accepting bills larger than $20 because of counterfeits.

Most stores and restaurants accept Visa and MasterCard and some accept American Express. The most favourable exchange rate is usually available by using a credit card. Most ATMs are networked to Cirrus and Interac and accept major credit cards with a PIN.

There are many currency exchange centres throughout the downtown area. They either charge a fee or take a couple of percentage points off the exchange rate for their services. Bank branches are commonly open from 10:00 to 16:00 during the week, often with extended hours on Thursday or Friday.

Electricity
Electricity in Canada is 110V and the plugs are the same as in the USA. Delegates from a country that uses 220V electricity must have a converter for any appliances from their home country.

Language
Montreal is a bilingual city (French and English). Quebec’s language laws mean there are few signs in English, but in the parts of Montreal where most travellers go, services are available in English as well as in French.

Public Holiday
Monday 24th June is a public holiday in Quebec for St-Jean-Baptiste/Fête de la Saint-Jean/Fête Nationale. Some shops open on this holiday, although banks, post offices and most offices will remain closed.

Taxes
Most goods and services in Quebec are subject to two taxes, a federal Goods and Services Tax of 5% (Taxe sur les produits et services – TPS) and a provincial sales tax of 9.975% (Taxe de vente du Québec – TVQ).

Time Difference
Montreal is in the Eastern time zone of North America which is 5 hours behind Greenwich Mean Time during the summer.
AWARDS

Lifetime Achievement Award
The Lifetime Achievement Award is the highest award presented jointly by the IBE and the ILAE. The Award is given to an individual to recognise and honour his or her exceptional and outstanding personal contribution over a long period of time to activities that advance the cause of epilepsy.

The recipient of the Lifetime Achievement Award is: Juhn Wada [Canada].

Prof. Juhn Atsushi Wada was born in Japan in 1924 and has, over his long and illustrious career, carved a significant reputation for his research in epilepsy, including his description of the Wada Test for cerebral hemispheric dominance of language function. He worked at the University of Minnesota and the Montreal Neurological Institute, then settled at University of British Columbia in 1956, where he was Professor of Neurology. He created the first surgical epilepsy programme and seizure monitoring unit in British Columbia.

His main interest has been in human brain asymmetry and neurobiology of epilepsy, for which work he received many internationally renowned awards: Associate of the Medical Research Council of Canada 1966-1994; founding president Canadian League Against Epilepsy 1977-1979; president American Epilepsy Society 1988 and he received the Wilder Penfield Gold Medal in 1988. He was appointed Officer of the Order of Canada in 1992 and awarded the Queen Elizabeth II Diamond Jubilee Medal in 2012.

Social Accomplishment Award
Every two years one individual who has carried out outstanding activities aimed at the social benefit of people with epilepsy, is recognised by the IBE and the ILAE. The name of the recipient is added to the award winners’ Hall of Fame maintained by the IBE and the ILAE.

The recipient of the Social Accomplishment Award is: Jane Hanna [United Kingdom].

Bereaved in 1990, through her partner’s unexplained death from epilepsy, Jane had the vision to use her experience to highlight the unrecognised issue of epilepsy mortality. At the time she had a prestigious academic career, lecturing at Oxford University. This she sacrificed to dedicate her time to a unique problem: that SUDEP and other epilepsy deaths were not recognised nor understood and people with epilepsy were at risk of dying unnecessarily.

Jane co-founded Epilepsy Bereaved, established to support families, influence clinicians and politicians, and promote research on epilepsy-related deaths. Twenty-two years of conviction, enthusiasm and refusal to be deflected resulted in a seismic shift in thinking and practice on SUDEP and epilepsy mortality internationally. In 2010 Jane was awarded an OBE by Queen Elizabeth II for distinguished services.
**Ambassador for Epilepsy Awards**

The Ambassador for Epilepsy Award is given jointly by the IBE and the ILAE to individuals to recognise outstanding personal contributions to activities that advance the cause of epilepsy. These contributions and activities should either be performed at an international level or they should have an international impact or significance. The award reflects international peer recognition and it is given for the lifetime of the recipient. No more than 12 awards will be given at any one time.

The following recipients will receive their award during the Welcome Ceremony of the 30th International Epilepsy Congress:

- Gretchen Birbeck (USA)
- Alla Guekht (Russian Federation)
- Dale Hesdorffer (USA)
- Sunao Kaneko (Japan)
- Byung-In Lee (Republic of Korea)
- Li Li Min (Brazil)
- Daniel Lowenstein (USA)
- Gary Mathern (USA)
- Gay Mitchell (Ireland)
- Jorge Rodriguez (USA)
- Ingrid Scheffer (Australia)
- Matthew Walker (United Kingdom)

**The Michael Prize**

Presented biennially, this prize was originally set up in 1963 to stimulate epilepsy research among young scientists in Germany. It is now one of the most highly regarded international awards for the best contribution to scientific and clinical research which promote further development in epileptology.

The recipient of the 2013 Michael Prize is: Ding Ding (China).

The award will be presented during the Welcome Ceremony on Sunday 23rd June. The winning paper “Premature mortality risk in people with convulsive epilepsy: Long follow-up of a cohort in rural China” will be presented during the Awards Symposium on Monday 24th June between 16:30 and 17:30 in Hall 1.

**Morris-Coole Epilepsia Prize**

The Morris-Coole Epilepsia Prize is supported by the ILAE and the Morris-Coole Trust. The Prize is awarded to the first author of a paper published in Epilepsia in the previous calendar year that presents high quality research [basic or clinical] with important implications for understanding and/or treating epilepsy-related phenomena. It is designed to encourage young scientists and/or clinicians to continue their work in epilepsy research.

The winner of the 2012 Morris-Coole Epilepsia Prize is: Mark R. Bower (USA)

Dr. Bower’s findings “Spatiotemporal neuronal correlates of seizure generation in focal epilepsy” (Mark R. Bower, Matt Stead, Fredric B. Meyer, W. Richard Marsh and Gregory A. Worrell, Epilepsia 53: 807-816, 2012) will be presented during the Awards Symposium on Monday 24th June between 16:30 and 17:30 in Hall 1.
SCIENTIFIC PROGRAMME INFORMATION

Presidential Symposium
This high profile symposium ‘Epilepsy-beyond seizures’, was carefully constructed by the Presidents of the ILAE and the IBE. The symposium investigates the issues relating to epilepsy beyond the seizures themselves, how seizures affect the patient’s life, addressing questions from etiology to SUDEP, including comorbidities and issues with modelling such a complex disease.

Awards Symposium
The Awards Symposium will take place on Monday 24th June from 16:30 to 17:30 in Hall 1.

TEACHING PROGRAMME
Coordinator: Walter van Emde Boas (Netherlands)
Members: Malachy Bishop (USA), Susanne Lund (Sweden), Chong-Tin Tan (Malaysia)

VIREPA Sessions
Virepa teaching sessions take place Monday to Thursday, 07:30 to 09:00. These sessions will cover topics such as: ‘Basic and paediatric EEG in epilepsy’, ‘Epilepsy and sleep: diagnostic and clinical interactions’ and ‘Difficult neuroimaging in epilepsy’.

Case Orientated Teaching Sessions
Case orientated teaching sessions, take place from Monday to Thursday, 07:30 to 09:00. They will focus on adult and paediatric cases, as well as surgical cases.

‘How To’ Teaching Sessions
A series of ‘How to’ teaching sessions take place Monday to Thursday, 07:30 to 09:00. The sessions will explore themes such as ‘What to do and not to do after a first unprovoked seizure?’, ‘EEG and imaging in the diagnosis and management of epilepsy’, ‘Optimising therapy in new onset and chronic epilepsy’ and ‘Management of the really intractable patient’.

‘What’s new in diagnostics’ Teaching Sessions
There will be four ‘What’s new in diagnostics’ sessions taking place from Monday to Thursday, 07:30 to 09:00 entitled: ‘What genetics test should I be ordering today in my patients?’, ‘The new EEG era’, ‘Advances in neuropsychology of epilepsy: spotlight on the right temporal lobe’, and ‘Practical management of seizures in the Intensive Care Unit’.

Video Sessions
Video sessions take place from 07:30 to 09:00 on Tuesday, focusing on adults, and on Thursday, focusing on paediatrics.

Teaching Courses
On Monday morning, 07:30 to 09:00, a curso hispano ALADE takes place, focusing on ‘Evaluación prequirúrgica en epilepsia - abordaje práctico’.
On Wednesday morning, 07:30 to 09:00, the Asian Epilepsy Academy (ASEPA) course takes place, entitled: ‘Dilemmas in the use of AEDs’.
MISSION IMPOSSIBLE EPI-QUIZ

Epi-Quiz Producer: Alexis Arzimanoglou (France)

Epi-Quiz ‘Sages’: Solomon L. Moshé (USA) & Mike Glynn (Ireland)

Epi-Quiz Actors: Frederick Andermann (Canada), Ed Bertram (USA), Leonor Cabral-Lim (Philippines), Peter Camfield (Canada), Fernando Cendes (Brazil), Helen Cross (United Kingdom), Sandy Finucane (USA), Alla Guekht (Russian Federation), Sherifa Ahmed Hamed (Egypt), Lawrence J. Hirsch (USA), Hassan Hosny (Egypt), Johann Hotlhausen (Germany), Akio Ikeda (Japan), Angelina Kakooza (Uganda), Byung-In Lee (Republic of Korea), Phil Lee (United Kingdom), Astrid Nehlig (France), Ingrid Scheffer (Australia), Manjari Tripathi (India), Anthony Zimba (Zambia)

The ‘Mission Impossible’ Epi-Quiz will take place on Thursday 27th June, 11:30-13:30, in Hall 2. Questions will deal with all aspects of epilepsy from scientific to social, and have been provided by prominent members of the epilepsy community worldwide.

The actors will be divided into four IMF teams (IMF = Impossible Mission Force), each including a basic scientist, an adult neurologist, a child neurologist, a neurophysiology/neuroimaging or treatment expert and a specialist on patient and social issues.

Two pairs of IMF teams will compete for 30 minutes each.

During the last 30 minutes of the 30th International Epilepsy Congress the 2 winning teams will compete for the “ILAE/IBE Mr Phelps team” award.

CONTINUING MEDICAL EDUCATION (CME) ACCREDITATION

The 30th International Epilepsy Congress is approved for up to 29 credits by the Office for Continuing Health Professional Education (CHPE), Faculty of Medicine, McGill University. The CHPE is fully accredited by the Committee on Accreditation of Canadian Medical Education (CACME).

The 30th International Epilepsy Congress is an Accredited Group Learning Activity as defined by the Maintenance of Certification program of the Royal College of Physicians and Surgeons of Canada.

Through a reciprocal agreement between the American Medical Association and the Royal College of Physicians and Surgeons of Canada, the Office for CHPE designates this activity for AMA PRA Category 1 credit(s) up to the maximum number of credit hours noted above. Please visit www.ama-assn.org for further details.

An international accreditation agreement between the Royal College of Physicians and Surgeons of Canada and the European Union of Medical Specialists allows European Union (EU) physicians who participate in accredited live educational activities held in Canada to convert Maintenance of Certification (MOC) - Accredited Group Learning credits to European Continuing Medical Education Credits (ECMECs). Please visit www.royalcollege.ca for further details.

Each physician should claim only credit commensurate with the extent of their participation in the activity.
ABSTRACTS

The International Organising Committee would like to thank all of those who submitted an abstract for review for the 30th International Epilepsy Congress. Almost 1,200 abstracts were received in 18 categories.


The International Organising Committee would like to thank those who participated in the abstract review process.

Platform Sessions
72 abstracts were selected for platform presentation in 12 sessions. Platform sessions will take place on Monday and Tuesday from 14:30 to 16:00.

Posters
Poster presenters are instructed to set up their posters between 09:00 and 10:00 on their assigned day. Posters must then be removed between 17:00 and 18:00. Please note that the 30th IEC does not take responsibility for unclaimed posters. The Poster Area is located adjacent to the Exhibition Area, situated on Level 5 of the Palais des congrès de Montréal.

Poster Tours (for more information see page 74)
Guided poster tours, led by a very prestigious roster of experts in the field, will take place during the congress. Presenters are asked to be available at their poster on their assigned day (13:30- 14:30). Each presenter will have 3-5 minutes to present his/her research and answer questions.

Poster Tours Selection Committee
Poster Tour Coordinator: José E. Cavazos (USA)
TRAVEL BURSARIES

In order to encourage young investigators to participate in the 30th IEC, 60 travel bursaries were awarded by the ILAE to assist with travel and/or registration and/or accommodation expenses.

Travel Bursary Awardees

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<td><strong>Platform Sessions</strong></td>
<td>14:30 - 16:00</td>
<td>Meet the Experts 14:30 - 16:00</td>
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<td><strong>Coffee Break</strong></td>
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<td><strong>Posters all day, Poster Tours</strong></td>
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www.epilepsymontreal2013.org
# SUNDAY 23rd JUNE

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<td>MNI Symposium: The pioneers at the Montreal Neurological Institute: early concepts in today’s practice</td>
<td>Neurobiology Symposium: Role of non-neuronal cells in epileptogenesis</td>
<td>IBE Symposium: Making the case for IBE’s international advocacy</td>
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<td>17:00-17:30</td>
<td>Parallel Session: Emerging concepts in status epilepticus</td>
<td>Parallel Session: Infantile spasms: from basic neuroscience to clinic</td>
<td>Parallel Session: Epilepsy at school</td>
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SUNDAY 23RD JUNE

14:00-16:30 MNI SYMPOSIUM Hall 1
The pioneers at the Montreal Neurological Institute: early concepts in today’s practice (supported by an educational grant from UCB)
Chairs: Jean Gotman, Canada & Tatsuya Tanaka, Japan

Epilepsy surgery at the MNI: the history
André Olivier, Canada

Imaging at the MNI: the history
William Feindel, Canada

Wilder Penfield: resecting the focus while preserving function
Tatsuya Tanaka, Japan

Herbert Jasper: mapping epileptic activity
Philippe Kahane, France

Theodore Rasmussen: red spikes, green spikes and surgical outcome
André Palmini, Brazil

Brenda Milner: starting with H.M. and setting the memory stage
Mary Lou Smith, Canada

Pierre Gloor: epilepsy is a network disease
George Kostopoulos, Greece

Frederick Andermann: seeking innovative pathways to explain observation
Sam Berkovic, Australia

Concluding remarks
Juhn Wada, Canada
14:30-16:30  NEUROBIOLOGY SYMPOSIUM  
Hall 2

**Role of non-neuronal cells in epileptogenesis**
Chairs: Alon Friedman, Israel & Annamaria Vezzani, Italy

Open blood-brain barrier and epilepsy  
Uwe Heinemann, Germany

Transformation of astrocytes during epileptogenesis  
Douglas Coulter, USA

Role of immunity in epileptogenesis  
Annamaria Vezzani, Italy

Astrocytic dysfunction in temporal lobe epilepsy  
Christian Steinhäuser, Germany

14:30-16:30  IBE SYMPOSIUM  
Hall 3

**Making the case for IBE’s international advocacy**  
Chair: Hanneke de Boer, Netherlands

Latin American Epilepsy Day and the PAHO Initiative  
Carlos Acevedo, Chile

European Epilepsy Day and the European Declaration  
Ann Little, Ireland

The Chinese International Epilepsy Day and the success of the GCAE in China  
Shichuo Li, China

Epilepsy Month (USA) and the advocacy impact of The Washington Walk  
Sandy Finucane, USA

The importance of International Days supported by WHO and UN - Autism Speaks  
Andy Shih, USA

17:00-18:30  PARALLEL SESSION  
Hall 1

**Emerging concepts in status epilepticus**  
Chair: Daniel Lowenstein, USA

Treatment targets: illusive or real?  
Matthew Walker, United Kingdom

Refractory status epilepticus - etiology and management  
Andrea Rossetti, Switzerland

Optimising pre-hospital treatment of status epilepticus  
Robert Silbergleit, USA

The future: clinical trials provide definitive answers  
Daniel Lowenstein, USA
17:00-18:30  PARALLEL SESSION  
Infantile spasms: from basic neuroscience to clinic  
Chair: Patrick Van Bogaert, Belgium

Current understanding of the causes of infantile spasms  
Patrick Van Bogaert, Belgium

Infantile spasms and disorders of interneurons: interneuronopathies  
William B. Dobyns, USA

Novel treatments based on animal models  
Emmanuel Raffo, France

Current therapeutic approaches of infantile spasms  
Jaime Carrizosa, Colombia

17:00-18:30  PARALLEL SESSION  
Epilepsy at school  
Chair: Jennifer Preston, United Kingdom

Addressing stigma in the classroom - epilepsy awareness education programmes for students  
Amadou Gallo Diop, Senegal

Epilepsy comorbidities and their impact on learning  
David W. Dunn, USA

Educating school personnel  
Joyce Senior, Ireland

Education: transitioning to adulthood  
Jennifer Preston, United Kingdom

19:00-20:00  WELCOME CEREMONY  
Followed by the Welcome Reception at the Terrace on Level 7.
31st International Epilepsy Congress
Istanbul, Turkey
6th - 10th September 2015
### MONDAY 24TH JUNE

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- **Coffee Break 11:00 - 11:30**
- **Parallel Session:** The impact of epilepsy surgery on comorbid psychiatric disorders
- **Parallel Session:** Epileptic encephalopathy
- **Lunch & Posters 13:00 - 14:30**
- **Coffee Break 16:00 - 16:30**
- **Platform Session:** Paediatric Epilepsy 1
- **Platform Session:** Drug Therapy
- **Awards Symposium**
- **Controversies:** Localization; electrophysiology vs metabolism
- **Controversies:** When does treatment work and when does it fail?
- **Eisai, Inc. Satellite Symposium:** Can AMPA receptor antagonists fill an unmet need in the partial onset
<table>
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</table>
| VIREPA Teaching Session: Basic and paediatric EEG in epilepsy | Case Oriented Teaching Session: Adult cases | How To...? What to do and not to do after a first unprovoked seizure? | What's new in diagnostics: Advances in neuropsychology of epilepsy: spotlight on the right temporal
| 07.00-07.30  | 07.30-08.00  | 08.00-08.30  | 08.30-09.00  |
| 09.00-09.30  | 09.30-10.00  | 10.00-10.30  | 10.30-11.00  |
| Coffee Break 11:00 - 11:30 |  |  | 11.00-11.30 |
| Parallel Session: Controversies in epilepsy due to neurocysticercosis | Parallel Session: Preclinical drug discovery | Parallel Session: Joint symposium with the World Federation of Neurology: Building epilepsy care |  |
| 11.30-12.00  | 12.00-12.30  | 12.30-13.00  |  |
| 13.00-13.30  | 13.30-14.00  | 14.00-14.30  |  |
| Lunch & Posters 13:00 - 14:30 |  |  |  |
| Platform Session: Basic Science | Platform Session: Neuroimaging | Platform Session: Social Issues | Platform Session: Genetics |
| 14.30-15.00  | 15.00-15.30  | 15.30-16.00  | 16.00-16.30  |
| Coffee Break 16:00 - 16:30 |  |  |  |
| Controversies: Costs and consequences of AEDs |  |  |  |
| 16.30-17.00  | 17.00-17.30  | 17.30-18.00  | 18.00-18.30  |
| 18.30-19.00  | 19.00-19.30  |  |  |
**MONDAY 24TH JUNE**

- **07:00-09:00**  
  **MATTHEW’S FRIENDS SATELLITE SYMPOSIUM**  
  Ketogenic dietary therapies – cooking up a storm  
  *Chair: Emma Williams, United Kingdom*  
  What, why and how to use these dietary therapies?  
  *Helen Cross, United Kingdom*  
  Who should get these dietary therapies?  
  *Ingrid Scheffer, Australia*  
  How does it work?  
  *Jong Rho, Canada*  
  **Hall 3**

- **07:30-09:00**  
  **CURSO HISPANO ALADE**  
  Evaluación prequirúrgica en epilepsia - abordaje práctico  
  *Chair: Manuel Campos, Chile*  
  Elementos esenciales para establecer un programa de cirugía de epilepsia  
  *Manuel Campos, Chile*  
  Evaluación extracraneal  
  *Elza Márcia Yacubian, Brazil*  
  Electrocorticografía y estimulación cortical  
  *Mario A. Alonso Vanegas, Mexico*  
  Evaluación intracraneal  
  *Americo Sakamoto, Brazil*  
  **Hall 2**

- **07:30-09:00**  
  **VIREPA TEACHING SESSION**  
  Basic and paediatric EEG in epilepsy  
  *Chair: Walter van Emde Boas, Netherlands*  
  "Old fashioned EEG": why we still need it  
  *Walter van Emde Boas, Netherlands*  
  "Alice in Wonderland": EEG in paediatric epilepsy  
  *Perrine Plouin, France*  
  Visual assessment of EEG localisation: from scalp to brain  
  *Sándor Beniczky, Denmark*  
  **Hall 4**
07:30-09:00  CASE ORIENTED TEACHING SESSION: ADULT CASES  Hall 5
The patient as teacher  
Chair: Hermann Stefan, Germany

The patient: from case history to diagnosis and treatment  
Hermann Stefan, Germany

The patient with epilepsy: optimal assessment with limited means  
Amadou Gallo Diop, Senegal

Long trajectories in the treatment of pharmacoresistant epilepsy  
Ivan Rektor, Czech Republic

07:30-09:00  "HOW TO" SESSION  Hall 6
What to do and not to do after a first unprovoked seizure?  
Chair: Sharon Whiting, Canada

First seizure in childhood and adolescence: a minimalist approach  
Carter Snead, Canada

Investigating and counselling the first unprovoked adult seizure - what is too little and too much?  
S. Nizam Ahmed, Canada

07:30-09:00  WHAT'S NEW IN DIAGNOSTICS  Hall 7
Advances in neuropsychology of epilepsy: spotlight on the right temporal lobe  
Chair: Marilyn Jones-Gotman, Canada

The elusive right temporal lobe deficit: how to demonstrate it, and fMRI confirmation of right temporal lobe role in clinical memory tasks  
Marilyn Jones-Gotman, Canada

Contributions of the right temporal lobe to autobiographical memory  
Laurie Miller, Australia

Prediction of memory performance after resection from the right temporal lobe  
Hennric Jokeit, Switzerland
09:00-11:00  **PRESIDENTIAL SYMPOSIUM**  
**Epilepsy: beyond seizures**  
*Chairs: Solomon L. Moshé, USA & Mike Glynn, Ireland*

Epilepsy: who really has it?  
*Robert S. Fisher, USA*

My epilepsy does not define me  
*Rick O’Shea, Ireland*

SUDEP: continuing the global conversation  
*Rosemary Panelli, Australia*

Which really matters? The etiology or the spikes?  
*Alicia Bogacz, Uruguay*

Modeling a many-headed monster  
*Rod C. Scott, United Kingdom*

Attacking seizures and comorbidities: a drug for each syndrome?  
*Aristea S. Galanopoulou, USA*

11:30-13:00  **PARALLEL SESSION**  
**The impact of epilepsy surgery on comorbid psychiatric disorders**  
*Chair: Andres M. Kanner, USA*

The impact of epilepsy surgery on depression and anxiety  
*Andres M. Kanner, USA*

Does temporal lobe epilepsy increase suicidality?  
*Marco Mula, Italy*

Epilepsy surgery and behavioural disturbances in cognitively impaired patients  
*Mike Kerr, United Kingdom*

The impact of epilepsy surgery in patients with psychosis  
*Naoto Adachi, Japan*

11:30-13:00  **PARALLEL SESSION**  
**Epileptic encephalopathy**  
*Chair: Gregory L. Holmes, USA*

Is it genetic or is it an accident?  
*Federico Vigevano, Italy*

Modeling high function and dysfunction following seizures  
*Gregory L. Holmes, USA*

Charting the waves: loci, circuits and systems  
*Michael Siniatchkin, Germany*

Who, when, and how shall we treat?  
*Roberto Tuchman, USA*
11:30-13:00 PARALLEL SESSION
Controversies in epilepsy due to neurocysticercosis
Chair: Jorge Burneo, Canada

The spectrum of neurocysticercosis-related epilepsy
Marco T. Medina, Honduras

Treatment – not as clear as it seems
Jorge Burneo, Canada

Does neurocysticercosis cause mesial temporal sclerosis?
Gagandeep Singh, India

Neurocysticercosis: burden, prevention and control strategies
Arve Lee Willingham, Switzerland

11:30-13:00 PARALLEL SESSION
Preclinical drug discovery
Chairs: Michele Simonato, Italy & Terence O’Brien, Australia

Defining the clinical “gaps to care” and the “opportunities”
to develop new treatment approaches for epilepsy
Jacqueline French, USA

Technical and methodological issues
Astrid Nehlig, France

Development of anti-epileptogenic therapies
Michele Simonato, Italy

Use of biomarkers and surrogate endpoints
Matthias J. Koepp, United Kingdom

11:30-13:00 PARALLEL SESSION
Joint symposium with the World Federation of Neurology:
Building epilepsy care - roadmap for beginners
Chair: Chong-Tin Tan, Malaysia

Burden: the many needs of patients
Samuel Wiebe, Canada

Capacity building: the essentials
Hasan Aziz, Pakistan

Comprehensive care: beyond the physician
Ding Ding, China

Networking, advocacy and research
Chong-Tin Tan, Malaysia
<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
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<tr>
<td>001</td>
<td>What predicts enduring intractability in children who appear medically intractable in the first two years after diagnosis?</td>
<td>Wirrell E, Wong-Kisiel L, Mandrekar J, Nickels K (USA)</td>
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<td>002</td>
<td>Incidence, prevalence and clinical outcome of Rasmussen Encephalitis in children from the United Kingdom</td>
<td>Lamb K, Scott WJ, Mensah A, Varadkar S, Robinson R, Cross HJ (United Kingdom)</td>
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<td>003</td>
<td>The relationship between epilepsy severity and social activities in children with new-onset epilepsy: the role of child cognitive and behaviour problems</td>
<td>Ferro MA, Speechley KN (Canada)</td>
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<td>004</td>
<td>Validation of Liverpool Adverse Events Profile in pediatrics patients with epilepsy and its correlation with the level of quality of life of children with epilepsy</td>
<td>Lara-Herguedas J, Serratosa-Fernández J, García-Peñas J-J, Ruiz-Falcó Rojas M, Gutierrez-Solana LG, Cazorla-Calleja R, Gutierrez-Cruz N, Roman-Riechmann E (Spain)</td>
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<td>005</td>
<td>The effect of the ketogenic diet on the developing skeleton</td>
<td>Mackay MT, Simm P, Bicknell-Royle J, Nation J, Draffin K, Stewart KG, Cameron F, Scheffer IE (Australia)</td>
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<tr>
<td>006</td>
<td>Randomised clinical trial comparing prednisolone and ACTH in reversal of hypsarrhythmia in untreated epileptic spasms</td>
<td>Wanigasinghe J, Attanapola GM, Arambepola C, Liyanage CB, Kankanamge PKSJ, Sumanasena S, Sri Ranganathan S (Sri Lanka)</td>
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</tbody>
</table>
14:30-16:00  PLATFORM SESSION
Drug therapy
Chair: Sunita Dergalust, USA

007  A combination of the 5-HTT genotypes is linked with higher 5-HTT gene expression and with worse response to pharmacotherapy in TLE patients
Hecimovic H, Sajko T, Popovic Z, Rotim K, Basic Kes V (Croatia)

008  Effects of treatment response and side effects on overall quality of life and distress
Simons WR, Gilliam F (USA)

009  Therapeutic drug level monitoring with levetiracetam in the treatment of epilepsy
Beran RG, Stepanova D (Australia)

010  Altered cortical thickness in language cortex following prenatal exposure to sodium valproate
Wood AG1,2, Chen J, Barton S2, Nadebaum C2, Anderson VA2, Reutens DC1, O’Brien TJ1, Vajda F1 (1 United Kingdom, 2 Australia)

011  Health economics of pharmacogenetic screening for newly diagnosed epilepsy: analysis of real-world data
Chen Z, Liew D, Kwan P (Australia)

012  School aged IQ in children prenatally exposed to antiepileptic drugs
14:30-16:00 PLATFORM SESSION

Basic science
Chair: Peter Carlen, Canada

013 Neuro-inflammation and mesial temporal lobe epilepsy in the developing brain: from toll-like receptor 4 to inflammation related microRNAs
Omran A, Peng J, Gan N, Ashhab MU, Yin F, He F, Lifen Y, Kong H (China)

014 Does blockade of the proinflammatory IL-1b/IL-1 receptor type 1 signaling prevent or modify epileptogenesis in two different rat models of epilepsy?
Frigerio F, Polascheck N², Noè F¹, Bankstahl M², Ravizza T¹, Reschke C¹, Beltrame L¹, Marchini S¹, Loescher W², Vezzani A¹ (Italy, Germany)

015 Long-term outcomes in multiple-hit rat model of symptomatic infantile spasms
Akman O, Briggs SW, Galanopoulou AS (USA)

016 RNAi-mediated knockdown of Nav1.1 disrupts a cognitive neural network
Bender AC¹, Luikart BW¹, Holmes GL¹, Scott RC¹,², Lenck-Santini P-P¹ (¹USA, ²United Kingdom)

017 Absence of neuroinflammation in human and experimental temporal lobe epilepsy
Aalbers MW, Rijkers K, Majoie M, de Baets M, Dings J, Schijns O, Hoogland G (Netherlands)

018 Multi-unit activity in the human neocortex as a predictor of seizure onset
Rozman PA¹, Eskandar E¹, Madsen JR¹, Thesen T¹, Carlson C¹, Devinsky O¹, Kuzniecky R¹, Doyle WK¹, Ulbert I², Halgren E¹, Cash SS¹ (¹USA, ²Hungary)
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<td><strong>PLATFORM SESSION</strong></td>
<td>Hall 5</td>
<td>Graeme Jackson</td>
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<td><strong>Neuroimaging</strong></td>
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<td>019</td>
<td>Concordance of EEG-fMRI BOLD responses and magnetic source imaging (MSI) of epileptic spikes in patients with focal epilepsy</td>
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<td>020</td>
<td>A new data-driven method detects whole-brain functional connectivity differences in idiopathic generalised epilepsy</td>
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<td>Maneshi M, Vahdat S, Grova C, Gotman J (Canada)</td>
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<td>021</td>
<td>Functional neuroimaging features differentiate mesio-neocortical temporal lobe epilepsy from neocortical temporal lobe epilepsy</td>
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<td>Joo EY1,2, Seo DW2, Hong SC2, Hong SB2 (1USA, 2Korea, Republic of)</td>
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<td>022</td>
<td>Presurgical diagnosis of the epileptogenic focus using near-infrared spectroscopy mapping</td>
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<td>Watanabe E, Yokota H, Oguro K, Edison E, Dan I (Japan)</td>
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<td>023</td>
<td>High resolution temporal imaging and high density EEG improves EEG-fMRI in focal epilepsy</td>
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<td>Jäger V, Dümpelmann M, Le Van P, Georgia R, Schulze-Bonhage A, Jürgen H, Jacobs J (Germany)</td>
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<td>024</td>
<td>Subregional mesiotemporal patterns of disease progression in temporal lobe epilepsy</td>
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<td>Bernhardt BC1,2, Kim H1, Bernasconi A1, Bernasconi N1 (1Canada, 2Germany)</td>
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MONDAY 24TH JUNE

14:30-16:00 PLATFORM SESSION

Social issues
Chair: Athanasios Covanis, Greece

025 Medical self-reporting to transportation authorities remains low after specialist counselling for first seizure patients
Siddiqi M, Jirsch J (Canada)

026 Marital adjustment for epilepsy patients in China
Chen J1, Zhang Y1, Hong Z1, Sander JW2,3, Zhou D1 (China, Netherlands, United Kingdom)

027 Stigma in epilepsy - an international perspective
Jetté N1, Ali A2, Austin JK1, Birbeck GL3,+; de Boer H1, Braga P1, Cross JH1, Dua T1, Fernandes PT1, Lorenzetti DL1, Mifsud J10, Moshé S3, Parko K3, Tripathi M11, Vautour M1, Wiebe S1, Jacoby A1 (Canada, Jamaica, USA, Zambia, Netherlands, Uruguay, United Kingdom, Switzerland, Brazil, Malta, India)

028 Long-term discontinuation rates in an extension study of the AMPA receptor antagonist perampanel as an adjunctive treatment for refractory partial seizures

029 Parental experiences during the peri-diagnostic period in epilepsy: a cry for help
Ramachandran Nair R, Jack SM (Canada)

030 The relationship between adverse event burden and quality of life in patients with epilepsy in a community
Al Faqih SS (Syrian Arab Republic)
14:30-16:00 PLATFORM SESSION
Genetics
Chair: Wei-Ping Liao, China

031 Mutations in DEPDC5: a major cause of familial focal epilepsy
Dibbens LM1, de Vries B2, Donatello S3, Heron SE1, Hodgson BL1,
Chintawar S4, Crompton DE1, Hughes JN1, Bellows ST5, Klein KM6,
Callenbach PM7, Corbett MA8, Gardner AE1, Kivity S9, Iona X1,
Regan BM1, Weller CM1, Crimmins D1, O’Brien T1, Guerrero- López R1,
Mulley JC1, Dubéau F10, Licchetta L11, Bisulli F12, Cossette P13,
Thomas PO1, Gecz J14, Serratosa J15, Brouwer OF16, Andermann F17,
Andermann E18, van den Maagdenberg AM19, Pandolfo M14, Berkovic SF20,
Scheffer IE21 (1Australia, 2Netherlands, 3Belgium, 4Germany, 5Israel,
6Spain, 7Canada, 8Italy)

032 Identification of a new causal gene for autosomal dominant focal
epilepsies
Baulac S1, Ishida S1, Picard F2, Rudolf G1, Thomas P1, Genton P1,
Marescaux C3, Baulac M4, Hirsch E1, Leguern E1 (1France, 2Switzerland)

033 Defective microtubule organisation due to novel EFHC1 mutations
linked to juvenile myoclonic epilepsy
Praveen K Raju P, Satishchandra P, Radhakrishnan K,
Anand A (India)

034 Identification of a first and major gene for acquired epileptic
aphasia (Landau-Kleffner syndrome) and related childhood focal
epilepsies and encephalopathies with speech and language
dysfunction
Szepetowski P1, Lesca G2, Rudolf G1, Bruneau N1, Lozovaya N1,
Labaine A3, Boutry-Kryza N1, Salmi M1, Tsintsadze T1, Addis L2,
Motte J1, Wright S2, Tsintsadze V3, Michel A1, Doummar D4,
Lascelles K5, Strug L1, Waters P5, de Bellescize J1, Vrielynck P1,
de Saint Martin A6, Ville D1, Ryvlin P1, Arzimanoglou A1, Hirsch E1,
Vincent A6, Pal D6. Burnashev N1, Sanlaville D1 (1France, 2United
Kingdom, 3Canada, 4Belgium)

035 Efficient genetic diagnostic testing of patients with epileptic
disorders using panel-based Next Generation Sequencing
Russ AC1, Steiner I1, Döcker M1, Riesch E1, Jüngling J1,
Scheurenbrand T1, Sprecher A1, Hörtnagel K1, Lemke JR2,
Biskup S1 (1Germany, 2Switzerland)

036 Targeted resequencing in epileptic encephalopathies reveals
marked genetic heterogeneity and novel genes
Carvill GL1, Heavin SB2, Yendle SC3, O’Roak BJ1, Cook J1, Khan A1,
Dorschner MO1, Weaver MA1, Calvert S2, Malone S2, Wallace G2,
Stanley T1, Bye AM2, Bleasell A2, Howell KB2, Kivity S2, Mackay
MT2, Rodriguez-Casero V1, Webster R4, Korczyn A5, Zelnik N2,
Lerman-Sagie T1, Lev D5, Stensbjerg Moller R1, Andrada DM2,
Freeman JL5, Sadleir LG1, Kendouer J1, Berkovic SF1,
Scheffer IE2, Mefford HC1 (1USA, 2Australia, 3New Zealand,
4Israel, 5Denmark, 6Canada)
16:30-17:30 **AWARDS SYMPOSIUM**  
*Hall 1*

*Chairs: Philip A. Schwartzkroin, USA & Peter Wolf, Denmark*

Winner of the 2012 Morris-Coole *Epilepsia* Prize:  
*Mark R. Bower, USA*

‘Spatiotemporal neuronal correlates of seizure generation in focal epilepsy’

Winner of the 2013 Michael Prize: *Ding Ding, China*

The Michael Lecture: ‘Premature mortality risk in people with convulsive epilepsy: Long follow-up of a cohort in rural China’

16:30-17:30 **CONTROVERSIES SESSION**  
*Hall 2*

**Localisation: electrophysiology vs metabolism**

*Chair: Jean Gotman, Canada*

Seizures: EEG and MEG are the best  
*Akio Ikeda, Japan*

Seizures: SPECT and NIRS are the best  
*Dang K. Nguyen, Canada*

Spikes: high resolution EEG is the best  
*Margitta Seeck, Switzerland*

Spikes: EEG-fMRI is the best  
*Friederike Moeller, Germany*

16:30-17:30 **CONTROVERSIES SESSION**  
*Hall 3*

**When does treatment work and when does it fail?**

*Chair: Jean Marc Saint Hilaire, Canada*

Clinically meaningful improvement for people with epilepsy requires being seizure free: Yes  
*Sarah Wilson, Australia*

Clinically meaningful improvement for people with epilepsy requires being seizure free: No  
*Gus Baker, United Kingdom*

The definition of drug resistance can be easily applied: Yes  
*Patrick Kwan, Hong Kong*

The definition of drug resistance can be easily applied: No  
*Jose Tellez-Zenteno, Canada*
16:30-17:30  CONTROVERSIES SESSION
Costs and consequences of AEDs
Chair: Giuliano Avanzini, Italy

New medications are superior
Martin Brodie, United Kingdom

Old medications are superior
Veriano Alexandre Jr., Brazil

Pharmacoresistant patients become seizure free with repeated AED trials
Michel Baulac, France

Pharmacoresistant patients do not become seizure free with repeated AED trials
Sylvain Rheims, France

18:00-19:30  EISAI, INC. SATELLITE SYMPOSIUM
Can AMPA receptor antagonists fill an unmet need in the partial onset seizures treatment algorithm?
Chair: Frederick Andermann, Canada

Unmet needs for the treatment of people with partial or focal epilepsy
Frederick Andermann, Canada

The role of AMPA receptors in excitatory neurotransmission and epileptic activity
Michael Rogawski, USA

An overview of the perampanel clinical development programme
Simon Shorvon, United Kingdom

Where do recently introduced agents fit in the real world treatment paradigm?
Bernard Steinhoff, Germany
### 30th International Epilepsy Congress

**TUESDAY 25TH JUNE**

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<tr>
<th>Time</th>
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<td>Video Session:</td>
<td>Elekta Satellite</td>
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<td>Epileptic seizures or not:</td>
<td>Symposium:</td>
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<td>Epilepsy Society Symposium:</td>
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**Posters all day - Poster Tours 13:30 - 14:30**

- **Parallel Session: Treating the tough epilepsies**
- **Parallel Session: American Epilepsy Society Symposium: Neonatal seizures**
- **Parallel Session: Infections, autoimmunity and epilepsy**

**Lunch & Posters 13:00 - 14:30**

**Coffee Break 16:00 - 16:30**

**Controversies: Guidelines: the good, the bad and the ugly**

**Controversies: Epilepsy and cognition**
<table>
<thead>
<tr>
<th>Time</th>
<th>Hall 4 (511 ad)</th>
<th>Hall 5 (513 abc)</th>
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<td>07.30-08.00</td>
<td>VIREPA Teaching Session:</td>
<td>Case Oriented Teaching</td>
<td>How To…? Optimizing</td>
<td>What’s new in diagnostics:</td>
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<td>Epilepsy &amp; sleep:</td>
<td>Session: Paediatric cases</td>
<td>therapy in new onset and</td>
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TUESDAY 25TH JUNE

07:30-09:00 VIDEO SESSION: ADULTS

Hall 2
Epileptic seizures or not: does video provide the final answer?
Chair: Richard S. McLachlan, Canada

Speakers:
S. Nizam Ahmed, Canada
François Dubeau, Canada
Richard S. McLachlan, Canada

07:30-09:00 ELEKTA SATELLITE SYMPOSIUM

Hall 3
What can epileptologists expect from MEG?
Chair: Richard Burgess, USA

Identifying the epileptogenic zone with MEG: myths and realities
Richard Burgess, USA

Evoked magnetic activity for mapping of eloquent cortical functions
Michael Funke, USA

Assessment of language and resting state connectivity analysis
Susan Bowyer, USA

07:30-09:00 VIREPA TEACHING SESSION

Hall 4
Epilepsy and sleep: diagnostic and clinical interactions
Chair: Al de Weerd, Netherlands

How timing and vigilance state help characterise seizure syndromes
Mark Quigg, USA

Sleep apnea and epilepsy: who is at risk and why does it matter?
Nancy Foldvary, USA

Epilepsy and sleep in the elderly: new aspects of an old problem
Al de Weerd, Netherlands

07:30-09:00 CASE ORIENTED TEACHING SESSION: PAEDIATRIC CASES

Hall 5
Chair: Carol Camfield, Canada

Extreme danger of momentary lapses with spike and wave
Carol Camfield, Canada

Partial hemimegalencephaly or extensive dysplasia?
Andras Fogarasi, Hungary

Early onset epilepsy partialis continua: an often overlooked etiology
Federico Vigevano, Italy
07:30-09:00  "HOW TO" SESSION  Hall 6
Optimising therapy in new onset and chronic epilepsy  
Chair: Kristina Malmgren, Sweden

Optimising therapy in new onset and chronic epilepsy in adult patients  
Martin Brodie, United Kingdom

Optimising therapy in new onset and chronic epilepsy in paediatric patients  
Heung Dong Kim, Republic of Korea

07:30-09:00  WHAT’S NEW IN DIAGNOSTICS  Hall 7
What genetic tests should I be ordering today in my patients?  
Chair: Patrick Cossette, Canada

Primer of genetic testing for clinicians  
Patrick Cossette, Canada

Genetic approach to epileptic encephalopathies  
Ingrid Scheffer, Australia

GLUT1 and epilepsy: spectrum of phenotypes and the role of ketogenic diet  
Carla Marini, Italy

09:00-11:00  MAIN SESSION  Hall 1
Challenges for epilepsy surgery in the developed and developing world  
Chair: Gary Mathern, USA

Presurgical evaluation – when is enough enough?  
Prasanna Jayakar, USA

Reaching for acceptable standards in low income countries  
Sally Rothemeyer, South Africa

How to reintegrate a person after surgery  
Patricia Osborne Shafer, USA

How to reach out to people who do not get referred  
Mario A. Alonso Vanegas, Mexico

Panel discussion
09:00-11:00  **MAIN SESSION**  
Stigma in epilepsy - who, why and what to do?  
*Chair: Nathalie Jetté, Canada*

Assessing stigma, do we know it when we see it?  
*Paula T. Fernandes, Brazil*

Stigma, why some people and not others?  
*Ann Jacoby, United Kingdom*

Reducing stigma: what can be done?  
*Gretchen Birbeck, USA*

A future without stigma?  
*Nathalie Jetté, Canada*

Panel discussion

11:30-13:00  **PARALLEL SESSION**  
Treating the tough epilepsies  
*Chair: Emilio Perucca, Italy*

Rational polytherapy in highly refractory patients  
*Emilio Perucca, Italy*

Innovative targets: epigenetics  
*Mark Mehler, USA*

Is there an optimum ketogenic diet?  
*Jong M. Rho, Canada*

Cut or stimulate?  
*François Dubeau, Canada*

11:30-13:00  **PARALLEL SESSION**  
Joint symposium with the American Epilepsy Society:  
Neonatal seizures  
*Chair: Amy Brooks-Kayal, USA*

Neonatal seizure monitoring and clinical outcomes  
*Eli M. Mizrahi, USA*

Mechanisms of and therapeutic targets for seizures in neonates  
*Frances Jensen, USA*

Molecular and cellular consequences of neonatal seizures  
*John Swann, USA*

Current and upcoming therapies for neonatal seizures  
*Amy Brooks-Kayal, USA*
11:30-13:00  PARALLEL SESSION  Hall 3
Infections, autoimmunity and epilepsy
Chair: Lionel Carmant, Canada

Epidemiology of epilepsy in the tropics
Pierre-Marie Preux, France

Epilepsy in falciparum malaria
Angelina Kakooza, Uganda

FIRES (Febrile Infection Related Epilepsy Syndrome) and other autoimmune encephalitides
Uri Kramer, Israel

Viral encephalitis and epilepsy
Karen Wilcox, USA

11:30-13:00  PARALLEL SESSION  Hall 4
High frequency oscillations and GABA receptor signaling:
new factors for seizure initiation
Chair: Massimo Avoli, Canada

High frequency oscillations in healthy and epileptic brain
Christophe Bernard, France

GABAergic networks at the onset of seizures
Marco de Curtis, Italy

High frequency oscillations as ictogenetic determinants
Massimo Avoli, Canada

A route to seizure in human tissue: when Basal GABAergic excitation meets hyperexcitability
Gilles Huberfeld, France

11:30-13:00  PARALLEL SESSION  Hall 5
Obesity and epilepsy - more than just weight
Chair: Mary Lou Smith, Canada

Brain mechanisms of obesity and their potential relation to epilepsy
Dana M. Small, USA

Obesity in children with epilepsy
Tracy A. Glauser, USA

AED influence on weight in people with epilepsy
Sherifa Ahmed Hamed, Egypt

Exercise programmes: what are the challenges?
Ricardo Mario Arida, Brazil
PARALLEL SESSION  
11:30-13:00  
**The cost of epilepsy - the obvious and the hidden**  
*Chair: Torbjörn Tomson, Sweden*

The cost of illness, what is important in epilepsy?  
*Mattias Ekman, Sweden*

Getting the numbers right: the importance of accurate prevalence estimates  
*Christine Linehan, Ireland*

Treatment and social costs  
*Charles Begley, USA*

Challenges for cost of epilepsy studies in research-poor countries  
*Charles Newton, Kenya*
14:30-16:00  PLATFORM SESSION
Paediatric Epilepsy 2
Chair: Elizabeth Donner, USA

037  Children with epilepsy and anxiety: subcortical and cortical differences
Jones JE, Chambers KL, Jackson DC, Dabbs K, Hsu DA, Stafstrom CE, Seidenberg M, Hermann BP (USA)

038  The surgically-remediable, epileptic syndrome associated with bottom-of-the-sulcus dysplasia (BOSD) in children
Harvey AS, Mandelstam S, Maixner WJ, Leventer RJ, Kean M, Semmelroch M, Jackson GD (Australia)

039  An ongoing open-label uncontrolled study of the efficacy and safety of ketamine in children with refractory convulsive status epilepticus
Rosati A, L’Erario M, Ilvento L, Pisano T, Mirabile L, Guerrini R (Italy)

040  The adult social outcome of children with “epilepsy only” is often troubled and is amazingly similar across different types of epilepsy: a population-based study with 20-35 years follow up
Camfield C, Camfield P (Canada)

041  Epilepsy surgery in paediatric intractable epilepsy with focal cortical dysplasia

042  Challenge in the treatment of status epilepticus in children; 16-years’ single center experience
Kravljianac R, Djuric M, Jankovic B, Pekmezovic T (Serbia)
**PLATFORM SESSION**

**Epilepsy surgery**  
*Chair: Antonio Gil-Nagel, Spain*

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**043 Intraoperative MR imaging (iopMRI) and functional neuronavigation (FN) for surgery of lesional temporal lobe epilepsy (LTLE): long term surgical and seizure outcome**  
Roessler K, Sommer B, Grummich P, Coras R, Kasper B, Hamer HM, Blümcke I, Buchfelder M (Germany)

**044 Epileptogenicity maps of intracerebral HFO ranging from 60 to 100Hz (HFO60-100) at seizure onset: clinical relevance in epilepsy surgery candidates**  
Kahane P, Job AS, David O, Minotti L, Chabardès S, Bartolomei F (France)

**045 Bilateral hippocampal sclerosis: surgical outcomes with noninvasive presurgical evaluation**  

**046 The Toronto experience with regards to neurocognitive and seizure outcomes of selective amygdalohippocampectomy versus anterior temporal lobe resection for mesial temporal lobe epilepsy**  
Mansouri A, Fallah A, Cohn M, Valiante TA (Canada)

**047 Stereotactic laser ablation of hippocampus leads to better cognitive outcome than standard temporal lobe resection for the treatment of epilepsy**  
Drane DL¹, Loring DW, Voets NL², Price M, Gross RE, Willie JT, Helmers SL¹, Ojemann JG¹, Phatak V¹, Miller JW, Meador KW¹ (¹USA, ²United Kingdom)

**048 Clinically important improvement in quality of life in medically and surgically treated patients with epilepsy: results from a randomized controlled trial**  
Fiest K¹, Dykeman J¹, Eliasziw M², Parrent A¹, Wiebe S¹ (¹Canada, ²USA)
PLATF0RM SESSION
Epilepsy in the developing world
Chair: Patricia Braga, Uruguay

049
Epilepsy and HIV in the department of neurology of Fann Teaching Hospital
Noutsa LK, Mbonda PCC, Ould Lemine S, Diop AG (Senegal)

050
Clinical features and consequences of active convulsive epilepsy in multiple sites in sub-Saharan Africa: a population-based study
Kariuki SM1, Matuja W2, Akpalu A3 Kakooza-Mwesige A4, Chabi M5, Wagner RG6, Cannon M6, Chengo E6, Ngugi AK6, Odhiambo R6, Bottomley C6, White S6, Sander JW6, Neville BG6, Newton CRJ6 (1Kenya, 2Tanzania, United Republic of, 3Ghana, 4Uganda, 5South Africa, 6United Kingdom)

051
Enhancing medical compliance of patients with convulsive epilepsy in rural western China: a randomised intervention trial
Li J, Si Y, Liu L, Zhou D (China)

052
Drug compliance in patients at a designated tertiary epilepsy-care facility
Mahmud H, Mogal Z, Aziz H (Pakistan)

053
Neurocysticercosis prevalence in four South-Western provinces of the Dominican Republic
Sanon NT1, Rivera Mejia D2, Santos Viloria D3, Perez Then E4, Dario Pimentel R5, Hugo Garcia H6, Carmant L1 (1Canada, 2Dominican Republic, 3Peru)

054
Cognitive function and academic achievement in children with idiopathic epilepsy from a developing country
Melbourne-Chambers R, Chang-Lopez S, Morrison-Levy N, Tapper J, Tulloch-Reid M (Jamaica)
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<tr>
<th>14:30-16:00</th>
<th><strong>PLATFORM SESSION</strong></th>
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<tr>
<td><strong>Clinical neurophysiology</strong></td>
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<td>Chair: Hiroshi Otsubo, Canada</td>
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055  **Effectiveness of Test-Enhanced Learning (TEL) as an instructional method for EEG courses**  
*Tan N, Chin HX, Loh NK, Chan DW, Rathakrishnan R, Lim SH* (Singapore)

056  **The relationship between the pathological types and scalp EEG features in patients with focal cortical dysplasia and intractable epilepsy**  
*Chen S* (China)

057  **Spike associated High Frequency Oscillations in Magnetoencephalography co-localize with Focal Cortical Dysplasia type IIB**  

058  **Pathological substrates of intracranial EEG seizure-onset patterns**  
*Perucca P, Dubeau F, Gotman J* (Canada)

059  **Network oscillations modulate neuronal assemblies and interictal epileptiform spike frequency during human memory**  

060  **A comparison of continuous video EEG monitoring and 30 minute EEG in an ICU setting**  
### PLATFORM SESSION
**Clinical epilepsy**
*Chair: José E. Cavazos, USA*

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<th>Session</th>
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<tr>
<td>062</td>
<td>Seizure phenomenology inferred from clinical descriptors of caregivers and its concordance to only video and video-EEG recordings</td>
<td>Tripathi M, Padma V, Chandra S, Mehta S, Bhavya G (India)</td>
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<td>063</td>
<td>Utility of home-made videos in an epilepsy clinic</td>
<td>Ojeda J, Ivanez V, López Gallardo S, Gutierrez-Gutierrez G, Miralles A (Spain)</td>
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<td>064</td>
<td>Autonomic function in syncope and seizure</td>
<td>Yerdelen D, Erol T (Turkey)</td>
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<td>066</td>
<td>Tele-epilepsy: developing a multi-modal device for non EEG, extramural, nocturnal seizure monitoring</td>
<td>van Andel JM, Tele-Epilepsy Consortium (Netherlands)</td>
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### Platform Session: Neuropsychology

**14:30-16:00**  
Hall 7

**Chair:** Marilyn Jones-Gotman, Canada

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<tr>
<td>067</td>
<td>Social cognition disorders in temporal lobe epilepsy patients</td>
<td>Hennion S, Delbeuck X, Lopes R, Tyvaert L, Derambure P, Szurhaj W (France)</td>
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<td>068</td>
<td>The impact of intervention on working memory in children with intractable epilepsy: preliminary results from a repeated measure study</td>
<td>Kerr EN, Alavie N, Blackwell M (Canada)</td>
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<td>069</td>
<td>The nature and extent of cognitive disruption in mesial temporal lobe epilepsy relative to unaffected siblings and healthy controls</td>
<td>Maher H, Pender N, Delanty N, Doherty C, Burke T (Ireland)</td>
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<td>070</td>
<td>Accelerated long-term forgetting in children with temporal lobe epilepsy</td>
<td>Gascoigne M, Webster R, Barton B, Gill D, Smith ML, Lah S (Australia, Canada)</td>
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<td>071</td>
<td>Development of a home-based intervention to address cognitive dysfunction in epilepsy</td>
<td>Jobst BC, Caller TA, Secore K, Ferguson RJ, Roth R, Kleen J, Scott R, Alexandre FP (USA)</td>
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<td>072</td>
<td>Unilateral mesial temporal epilepsy impairs remote brain activation and social cognition</td>
<td>Toller G, Broicher SD, Grunwald T, Huber D, Krämer G, Kurthen M, Jokeit H (Switzerland)</td>
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16:30-17:30  CONTROVERSIES SESSION  Hall 2

Guidelines: the good, the bad and the ugly
Chair: Timothy A. Pedley, USA

Guidelines on epilepsy surgery of the American Academy of Neurology - inform decisions and improve outcomes: Pros
Taisuke Otsuki, Japan

Guidelines on epilepsy surgery of the American Academy of Neurology - inform decisions and improve outcomes: Cons
Helen Cross, United Kingdom

Choice of AEDs by the ILAE guidelines - inform decisions and improve outcomes: Pros
Carlos Guerreiro, Brazil

Choice of AEDs by the ILAE guidelines - inform decisions and improve outcomes: Cons
Jo Wilmshurst, South Africa

16:30-17:30  CONTROVERSIES SESSION  Hall 3

Epilepsy and cognition
Chair: Ivan Rektor, Czech Republic

Spikes are bad for cognition
Pierre-Pascal Lenck-Santini, USA

The effect of spikes on cognition is minimal
Ivan Rektor, Czech Republic

Does epilepsy result in cognitive decline in adults?
Christoph Helmstaedter, Germany

Does epilepsy result in cognitive decline in children?
Bruce Hermann, USA

16:30 - 18:00  NEUROSIGMA, INC. SATELLITE SYMPOSIUM  Hall 4

External trigeminal nerve stimulation (eTNS) for the treatment of epilepsy and neuropsychiatric disorders
Chair: Christopher M. DeGiorgio, USA

The science of TNS: results from neuroanatomic, animal and PET studies
Christopher M. DeGiorgio, USA

eTNS for epilepsy: results from Phase I and II studies of eTNS for drug resistant epilepsy
Christopher M. DeGiorgio, USA

eTNS for neuropsychiatric disorders: results from Phase I studies in depression, post-traumatic stress disorder and attention deficit-hyperactivity disorder
Ian A. Cook, USA
**WEDNESDAY 26\(^{th}\) JUNE**

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<td>AESPA Course: Dilemmas in the use of AEDs</td>
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<td>VREPA Teaching Session: I spy, I spy with my little eye: difficult neuroimaging in epilepsy</td>
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<td>Parallel Session: SUDEP prevention - are we there yet?</td>
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**Posters all day - Poster Tours 13:30 - 14:30**

**Take down**
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WEDNESDAY 26TH JUNE

07:30-09:00  ASIAN EPILEPSY ACADEMY (ASEPA) COURSE  Hall 2
Dilemmas in the use of AEDs
Chair: Shih-Hui Lim, Singapore

AEDs in women with JME contemplating pregnancy
Shih-Hui Lim, Singapore

AEDs in patients with epilepsy associated with brain tumours
Karupath Radhakrishnan, India

AED withdrawal in symptomatic epilepsy after prolonged seizure remission
Chong-Tin Tan, Malaysia

New onset epilepsy with cavernous angiomas: early surgery or AED treatment?
Byung-In Lee, Republic of Korea

07:30-09:00  ELECTRICAL GEODESICS, INC. SATELLITE SYMPOSIUM  Hall 3
Advances in dense array EEG evaluation of epilepsy
Chair: Mark Holmes, USA

Comparison of dense array EEG with simultaneous recorded intracranial EEG for interictal spike detection rate and its source localisation
Madoka Yamazaki, Japan

EEG/MEG source localization of epileptic discharges: is it possible to recover the spatial extent of the underlying generator?
Christophe Grova, Canada

07:30-09:00  VIREPA TEACHING SESSION  Hall 4
I spy, I spy with my little eye: difficult neuroimaging in epilepsy
Chair: Catherine Chiron, France

How to improve the detection of epileptogenic lesions on MRI
Fernando Cendes, Brazil

FDG-PET: reading difficult images
Catherine Chiron, France

Functional MRI: reading difficult images
William Gaillard, USA
07:30-09:00  CASE ORIENTED TEACHING SESSION  
Surgical cases  
Chair: Çigdem Özkara, Turkey  
Patient as a teacher may be deceptive  
Çigdem Özkara, Turkey  
Focal or multifocal - that is the question?  
Helen Cross, United Kingdom  
Generalised epilepsy with focal lesion  
Simon Harvey, Australia  

07:30-09:00  “HOW TO” SESSION  
Management of the really intractable patient  
Chair: François Dubeau, Canada  
Pharmacotherapy: less rather than more?  
Jacqueline French, USA  
Managing the patient and the family  
Ley Sander, United Kingdom  

07:30-09:00  WHAT’S NEW IN DIAGNOSTICS  
Practical management of seizures in the Intensive Care Unit  
Chair: Lawrence J. Hirsch, USA  
Look and you shall find - detection and management of nonconvulsive seizures in the Intensive Care Unit  
Cecil Hahn, Canada  
Big challenges in tiny patients - detection and management of seizures in neonates  
Maria Roberta Cilio, USA  
Super tips for treating super refractory status epilepticus  
Bryan Young, Canada
09:00-11:00  MAIN SESSION  Hall 1
The new organisation of the epilepsies in daily practice
Chair: Ingrid Scheffer, Australia

Role of the new classification in developing animal models
Ed Dudek, USA

Listening to the community: modifications to the new organisation
Ingrid Scheffer, Australia

How do you explain genetic epilepsy to a patient?
Sameer Zuberi, United Kingdom

Immune epilepsies – an emerging new etiology
Christian Bien, Germany

Panel discussion

09:00-11:00  MAIN SESSION  Hall 2
Focal cortical dysplasia – the latest
Chair: Eva Andermann, Canada

Impact of the new classification on patient care
Ingmar Blümcke, Germany

Genetics of malformations of cortical development
Christopher Walsh, USA

Can image analysis show the invisible?
Andrea Bernasconi, Canada

Epileptogenicity and surgical treatment
Heung Dong Kim, Republic of Korea

Panel discussion

11:30-13:00  PARALLEL SESSION  Hall 1
Post-traumatic epilepsy - new insights into an old disorder
Chair: W. Allen Hauser, USA

Risk factors for post-traumatic seizures and epilepsy
W. Allen Hauser, USA

Epileptogenesis: cells, molecules and the blood brain barrier
Alon Friedman, Israel

Preventing epilepsy after TBI
Asla Pitkänen, Finland

Prognosis and treatment: just another focal epilepsy?
Alla Guekht, Russian Federation
11:30-13:00  PARALLEL SESSION  Hall 2
SUDEP prevention - are we there yet?
*Chairs: Elizabeth Donner, Canada & Susan Axelrod, USA*

SUDEP: identifying those most at risk
*Elson So, USA*

Discussing SUDEP: does disclosure reduce the risk?
*Ley Sander, United Kingdom*

Epilepsy treatment for SUDEP prevention
*Torbjörn Tomson, Sweden*

Do devices have a role in SUDEP prevention?
*Philippe Ryvlin, France*

11:30-13:00  PARALLEL SESSION  Hall 3
Hot topics in epilepsy research
*Chair: Gary Mathern, USA*

A novel role for Human Papilloma Virus in cortical dysplasia
*Peter Crino, USA*

Stereotactic laser ablation in paediatric epilepsy: surgical innovation in the age of the blogosphere
*Daniel J. Curry, USA*

The nodding syndrome: a new epidemic epilepsy
*Angelina Kakooza, Uganda*

Functional connectivity - what it can and can’t tell us about the epileptic brain
*R. Todd Constable, USA*

11:30-13:00  PARALLEL SESSION  Hall 4
Epileptic encephalopathies and other genetic epilepsies of infancies – a new dawn of discovery
*Chair: Sam Berkovic, Australia*

Dravet Syndrome and beyond: phenotypes, genetics and treatment implications
*Charlotte Dravet, France*

Girls only epilepsy – phenotypes and mechanism of an important new disorder
*Carla Marini, Italy*

Novel genes for epileptic encephalopathies
*Heather Mefford, USA*

Molecular basis of benign familial infantile epilepsy and related syndromes
*Shinichi Hirose, Japan*
11:30-13:00  PARALLEL SESSION  Hall 5
Paediatric status epilepticus  
Chair: Federico Vigevano, Italy

Age-dependent consequences of status epilepticus  
Lionel Carmant, Canada

Febrile status epilepticus  
Shlomo Shinnar, USA

Neonatal status epilepticus  
KP Vinayan, India

Treatment of status epilepticus in infants and children  
Rima Nabbout, France

11:30-13:00  PARALLEL SESSION  Hall 6
Stress and epilepsy  
Chair: Sheryl Haut, USA

Is stress-induced epilepsy a reflex epilepsy?  
Bettina Schmitz, Germany

Can stress change brain function?  
Terence O’Brien, Australia

Post-traumatic stress disorder and epilepsy  
Michael Privitera, USA

Treating the stress to control the seizures  
Sheryl Haut, USA

11:30-13:00  PARALLEL SESSION  Hall 7
Political advocacy: raising awareness and funding for epilepsy  
Chair: Mary Secco, Canada

Giving epilepsy a good name  
Byung-In Lee, Republic of Korea

Shaking up the European Community  
Ann Little, Ireland

Changing public health policy in North America  
Sandy Finucane, USA

The Americas: a continental strategy for epilepsy  
Carlos Acevedo, Chile
14:30-16:00 MEET THE EXPERTS  
**Interactive case presentations: Paediatrics**  
*Hall 2*

**Chair:** Carter Snead, Canada

Expert: Renzo Guerrini, Italy  
*Case Presenter:* Rio Carla Pineda, Canada

Expert: Peter Camfield, Canada  
*Case Presenter:* Aspasia Michoulas, Canada

Expert: Perrine Plouin, France  
*Case Presenter:* Inge Meijer, Canada

Expert: Eli Mizrahi, USA  
*Case Presenter:* Kevin Jones, Canada

14:30-16:00 MEET THE EXPERTS  
**Interactive case presentations: Adults**  
*Hall 3*

**Chair:** Jerome Engel Jnr., USA

Expert: Frederick Andermann, Canada  
*Case Presenter:* Trevor Steve, Canada

Expert: Christian Elger, Germany  
*Case Presenter:* Dongmei An, Canada

Expert: Warren Blume, Canada  
*Case Presenter:* Colin Josephson, Canada

Expert: Shih-Hui Lim, Singapore  
*Case Presenter:* Michelle-Lee Jones, Canada

13:00-17:00 **IBE GENERAL ASSEMBLY**  
*Room 515*

IBE Member Association representatives only

17:00-18:30 **ILAE GENERAL ASSEMBLY**  
*Hall 7*

ILAE Chapter representatives only
## THURSDAY 27TH JUNE

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THURSDAY 27TH JUNE

07:30-09:00  VIDEO SESSION: PAEDIATRICS  Hall 2
Secrets from the silent - video EEG in the critical care unit in children
Chair: Sharon Whiting, Canada

Speakers:
Cecil Hahn, Canada
Mary Connolly, Canada
Sharon Whiting, Canada

07:30-09:00  VIREPEA TEACHING SESSION  Hall 4
Why epileptologists should know their psychiatry
Chairs: Andres M. Kanner, USA & Marco Mula, Italy

Do psychiatric disorders predict treatment resistant epilepsy?
Andres M. Kanner, USA

How to identify psychiatric disorders in epilepsy
Marco Mula, Italy

How to treat psychiatric disorders in epilepsy
Mike Kerr, United Kingdom

07:30-09:00  CASE ORIENTED TEACHING SESSION  Hall 5
When there is more than epilepsy
Chair: Alla Guekht, Russian Federation

Challenges that elderly face
Alla Guekht, Russian Federation

Epilepsy and comorbidities in elderly patients
Natela Okujava, Georgia

Contraception, pregnancy and breast-feeding: one case, many lessons
Torbjörn Tomson, Sweden
07:30-09:00  "HOW TO" SESSION  Hall 6
EEG and imaging in the diagnosis and management of epilepsy: what, when and why?
Chair: William H. Theodore, USA

EEG for diagnosis and management in epilepsies: a practical guide for clinician
Hermann Stefan, Germany

Neuroimaging in the diagnosis and management of epilepsies: a practical guide for clinicians
Fernando Cendes, Brazil

07:30-09:00  WHAT’S NEW IN DIAGNOSTICS  Hall 7
The new EEG era
Chair: Paolo Federico, Canada

Recording and interpretation of High Frequency Oscillations
Julia Jacobs, Germany

Combining EEG and functional MRI-options
Paolo Federico, Canada

Recording and interpreting DC shift and ultra-slow activity
Akio Ikeda, Japan

Recording EEG and single cell activity from microelectrodes in humans
Catherine Schevon, USA

09:00-11:00  MAIN SESSION  Hall 2
The epileptic focus: a zone or a network?
Chair: Philippe Kahane, France

The interictal focus: spikes and HFOs
Jean Gotman, Canada

The ictal focus: measuring spread with EEG
Fabrice Bartolomei, France

The ictal focus: neurovascular coupling and seizures initiation
Theodore Schwartz, USA

The lesion, the seizure onset zone and epileptogenicity
Hans Luders, USA

Panel discussion
09:00-11:00  **MAIN SESSION**  
Withdrawing AEDs - the brain, the patient and the family  
*Chairs: Kimford J. Meador, USA & Meir Bialer, Israel*

The spectrum of neurobiological consequences  
*Ed Bertram, USA*

Debate: withdrawing AEDs (pros)  
*Kimford J. Meador, USA*

Debate: withdrawing AEDs (cons)  
*Dieter Schmidt, Germany*

What do patients and families need to know?  
*Kurupath Radhakrishnan, India*

Panel discussion

11:30-13:00  **EPI-QUIZ**  
'Mission Impossible'  
*Producer: Alexis Arzimanoglou, France*  
*Sages: Mike Glynn, Ireland & Solomon L. Moshé, USA*

**Actors:**  
Frederick Andermann, Canada  
Ed Bertram, USA  
Peter Camfield, Canada  
Fernando Cendes, Brazil  
Helen Cross, United Kingdom  
Sandy Finucane, USA  
Alla Guekht, Russian Federation  
Sherifa Ahmed Hamed, Egypt  
Lawrence J. Hirsch, USA  
Hassan Hosny, Egypt  
Johann Hotthausen, Germany  
Akio Ikeda, Japan  
Angelina Kakooza, Uganda  
Byung-In Lee, Republic of Korea  
Phil Lee, United Kingdom  
Leonor Cabral-Lim, Philippines  
Man Mohan Mehdiratta, India  
Astrid Nehlig, France  
Leonor Cabral-Lim, Philippines  
Ingrid Scheffer, Australia  
Manjari Tripathi, India  
Anthony Zimba, Zambia
POSTERS

The Poster Area is located on level 5 of the congress venue, adjacent to the Exhibition Area. Posters will be set up on Monday 24th June – Wednesday 26th June between 09:00 and 10:00 and will be on display between 10:00 and 17:00. Poster dismantling will take place between 17:00 and 18:00 from Monday 24th June – Wednesday 26th June.

GOLD STAR POSTERS

A number of posters have been selected by the International Organising Committee to receive a ‘Gold Star’ Poster award. The awards were based on the merit and special interest of the poster content.

Gold Star posters are also signalled with a star symbol throughout the Final Programme (page 78-171).
POSTER TOURS

The International Organising Committee has chosen to organise guided poster tours (led by experts in their field) of selected posters in each category, giving a chance to these researchers to present their work during the congress. Therefore, the selected presenters must be available at their poster on the assigned day (13:30-14:30 on Monday 24th June, Tuesday 25th June and Wednesday 26th June). Each presenter shall be given 3 - 5 minutes to illustrate their poster and answer questions.

The full poster abstracts are viewable online under “posters” in the interactive session planner which can be found on the congress website www.epilepsymontreal2013.org.

Please note: In some circumstances poster leaders may change.

The timetable below illustrates which topics are on each day:

MONDAY 24TH JUNE

13:30-14:30 Poster Area (Level 5)

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**p081**  
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p179 USL255, extended-release topiramate, demonstrates dose-proportional pharmacokinetics and tolerability over a wide dosing range in healthy subjects
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p529 Effect of hemodialysis on the pharmacokinetics of ezogabine/retigabine and its N-acetyl metabolite: results of an open-label, single-dose, fixed-sequence phase I study
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p530 Impact of concomitant sodium channel blocker antiepileptic drugs (AEDs) on the efficacy of adjunctive perampanel for partial-onset seizures: an analysis of pooled phase III data
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p531 Adjunctive once-daily perampanel reduces seizure frequency and improves responder rates in patients with uncontrolled partial-onset seizures, irrespective of age at epilepsy diagnosis: a pooled analysis of three phase III trials
Squillacote D, Yang H, Kumar D, Laurenza A (USA)

p532 Canadian experience with extended use of over 3 years of perampanel in partial onset seizures in patients aged 12 and above
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p533 Assessment of pharmacokinetic linearity and relative bioavailability of a nasal diazepam formulation compared with diazepam rectal gel in healthy adult subjects
Henney III HR, Rabinowicz AL, Bream G, Grinspan A, Carrazana EJ (USA)

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p535 Profile of patients responding to lacosamide treatment in drug-resistant epilepsy
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p536 Initial antiepileptic drug response for six months in patients with newly diagnosed epilepsy: significance of age of onset
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p537 New onset hypertension and atherosclerosis in patients on long term anti-epileptic drugs
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p538 Chronic effect of Lacosamide on interictal epileptiform activity in patients with pharmaco resistant focal epilepsy
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p539 Artificial neural networks may improve the prediction of outcome in adult patients with newly diagnosed localization - related epilepsies
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p540 The effects of eslicarbazepine on transient Na+ currents in pilocarpine model of temporal lobe epilepsy
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p541 Association between ABCB1 C3435T polymorphism and pharmacokinetics of carbamazepine
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p542 Lacosamide treatment - added value of plasma levels?
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p543 Long-term safety of perampanel: additional 10 months of data from study 307, an extension of three randomized, placebo-controlled, double-blind, phase III trials of perampanel in partial-onset seizures in patients aged 12 and above
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p544 Lamotrigine pharmacokinetics following oral and stable-labeled intravenous administration in young and elderly epilepsy patients
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p545 A comparison between pharmacological treatment of epileptic patients with and without intellectual disability
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p546 Effect of adjunctive lacosamide on seizure-free intervals in adults with partial onset seizures: pooled analysis of double-blind, placebo-controlled clinical trials
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p547 Comparison of body composition and lipid profile among persons with epilepsy on conventional and newer antiepileptic therapy
Sarangi SC, Tripathi M, Gupta YK (India)
Long-term safety and efficacy of zonisamide versus carbamazepine monotherapy for treatment of partial seizures in adults with newly diagnosed epilepsy: results of a phase III, multinational, randomised, double-blind, active-controlled study

Baulac M1, Bagul M2, Patten A1, Giorgi L2 (1France, 2United Kingdom)

Impact of long-term treatment with adjunctive once-daily zonisamide on measures of growth and development in paediatric patients with partial epilepsy

Rosati A1, Bagul M2, Giorgi L2, Bradshaw K1, Guerrini R1 (1Italy, 2United Kingdom)

Seizure freedom in adults with partial-onset seizures treated with adjunctive lacosamide: pooled analysis of three open-label extension trials

Dimova S1, McShea C1, De Backer M1 (1Belgium, 2USA)

Violation of vascular-platelet hemostasis in children with stroke with anticonvulsant therapy

Issayeva R, Pushkarev K (Kazakhstan)

Long-term safety of adjunctive once-daily zonisamide in paediatric patients with partial epilepsy: results of an open-label extension study of a phase III, randomised, double-blind, placebo-controlled trial

Guerrini R1, Bagul M2, Rosati A1, Bradshaw K1, Giorgi L2 (1Italy, 2United Kingdom)

Experience with retigabine treatment in pharmacotherapy resistant partial onset epilepsy patients

Donath V, Lipovsky L, Mehesova S (Slovakia)

Long-term seizure outcomes with perampanel in refractory partial-onset seizures and secondarily generalized partial seizures: 10-months additional data from extension study 307 following 3 phase III clinical trials

Ben-Menachem E1, Krauss GL2, Bagul M1, Zhu J1, Gee M1 (1Sweden, 2USA, 3United Kingdom)

An assessment of clinical practice toward pharmacological treatment of epilepsy: a survey of adult neurologists in R. Macedonia

Kuzmanovski I, Cvetkovska E (Macedonia, [the Former Yugoslav Republic of])

Safety and efficacy of sustained release lamotrigine as onotherapy / add on therapy in the treatment of epilepsy

Dixit V, Singh A, Pradhan S (India)

Evaluation of intranasal midazolam administration in preventing convulsive status epilepticus during partial anti-epileptic drug withdrawal in the Epilepsy Monitoring Unit

Velis DN, Claus S, Gaitatzis A, Zwemmer J, van Emde Boas W (Netherlands)
p558 Progesterone and allopregnanolone may have different mechanisms of antiepileptic action
Jeffrey MA, Lang M, Burnham WM, Zhang L [Canada]

p559 Multicenter, open-label study evaluating tolerability, safety and efficacy outcomes of lacosamide as adjunctive therapy for patients with partial-onset seizures using a flexible dose escalation schedule and individualized maintenance doses
Baulac M¹, Coulbaut S¹, McShea C¹, Doty P¹, Friedel C¹ [France, USA]

p559 Analyis of efficiency and safety of topiramate depending on patient’s age and forms of epilepsy
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p560 Novel KCNQ2/3 channel opener with improved potency and channel selectivity as a potential new treatment for partial-onset seizures: pre-clinical characterization
Furuya T, Purohit A, Edwards S [USA]

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p563 The antiepileptic effects of omega-3 PUFAs: data from animal and clinical studies
Trépanier M-O, Taha AY, Bazinet RP, Burnham WM [Canada]

p564 The clinical and demographic spectrum related to perception of adverse effects of antiepileptic drugs
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p565 An extra dose of antiepileptic drug may prevent epileptic attack after exposure to triggering factors
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p566 Prospective audits with new antiepileptic drugs in localization-related epilepsy: insights into response
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p568 Changes in optic radiation integrity and visual fields after three different temporal lobe epilepsy surgeries

p569 Mesial temporal lobe epilepsy and the insula. Postsurgical evaluation
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p570 Experience and current status of vagus nerve stimulation therapy at one institution in Japan
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p571 Seizure outcome and complications after resective epilepsy surgery in patients over 50 years in Sweden 1990–2009
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p572 Long term follow-up after callosotomy
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p573 Effectiveness and tolerability of vagal nerve stimulation with intractable epilepsy: practical experience at Clementino Fraga Filho University Hospital in Rio de Janeiro
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p574 The combination of stereotactic EEG and strip electrode placement
Enatsu R, Gonzalez-Martinez J, Bulacio J, Serletis D, Bingaman W, Najm I (USA)

p575 Laser ablation surgery for mesial temporal, lateral temporal, and extra-temporal foci with and without lesion; successful integration of MSI, fMRI, and EEG and Brainlab technology for non-invasive localization and destruction of epileptic foci using stereotactic laser ablation (SLA)
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p576 Accuracy of frameless navigation for depth electrode implantation in sEEG patients – technical note
Baayen JC, Klitsie MAJ, De Jonge CS, De Witt Hamer PC, Velis DN, Claus SP (Netherlands)

p577 Option grid decision-support intervention for patients considering epilepsy surgery
Kynaston J, Elwyn GJ, Smith PEM (United Kingdom)
p578  Surgical treatment of pharmacoresistant epilepsy in Thailand reduces anticonvulsant related treatment cost after two years
   Dejasavanong R, Unnwongse K [Thailand]

p579  Seizure outcomes after bitemporal lobe epilepsy surgery: a systematic review and meta-analysis
   Fang Y, Zhang H [China]

p580  Gamma knife radiosurgery for treatment of failed anterior temporal lobectomy in mesial temporal lobe epilepsy with hippocamal sclerosis (MTLE-HS)
   Lee EM, Kang JK, Hong SH, Lee SA, Lee JK [Korea, Republic of]

p581  Vagus nerve stimulation in a patient with progressive myoclonus epilepsy: a second reported case in the world

p582  Self-perceived changes in psychosocial functioning and quality of life in children after resective epilepsy surgery, a long-term follow-up
   Hallbøök T, Tideman P, Rosén I, Lundgren J, Tideman E [Sweden]

p583  Epilepsy Surgical Grading Scale (ESGS): utilization in epilepsy surgery cohorts at two centres in different countries
   Buiskool M¹, Dugan P², Carney PW³, Carlson C³, French J¹, O’Brien TJ¹, Berkovic SF¹, McIntosh AM³
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p584  Epilepsy surgery in patients with vascular destructive lesions and congenital hemiparesis

p585  Does multiple subpial transection influence longer term outcome in Landau Kleffner Syndrome

p586  Resective surgery for paediatric intractable epilepsy associated with cortical dysplasia using 3 Tesla MRI and multimodal functional neuroimaging studies

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p588  Surgical outcome and predictors of temporal lobe epilepsy surgery in KFSHRC, Riyadh, Saudi Arabia

p589  Epilepsy surgery outcomes in children with tuberous sclerosis
   Yi YY, Yu R, Lee JS, Kang HC, Kim HD [Korea, Republic of]
Long term outcome in persons with drug refractory epilepsy after resection in unilateral mesial temporal sclerosis

Are stimulation-evoked seizures during cortical stimulation mapping detrimental to postoperative language function?
Bank AM, Schevon CA, Hamberger MJ (USA)

Clinical validation of an online tool to determine appropriateness for an epilepsy surgery evaluation
Lutz MT, Mayer T (Germany)

Time to stop AEDs in children following surgery: is a trial feasible?
Boshuisen K1, Cross H2, Arzimanoglou A3, van Schooneveld MM1, Uiterwaal CSPM1, Braun KP1, TimeToStop study group [1Netherlands, 2United Kingdom, 3France]

A review of our redo epilepsy surgery cases: does double pathology affect epilepsy surgery outcome?
Alkhalaf Y, Baz S, Aloytaiufi F, Althobiti I, Aldhalaan H, Alsemari A (Saudi Arabia)

Epilepsy surgery in mesial temporal sclerosis with ictal scalp Video-EEG topographically non-concordant: the relevance of minimally invasive records
Delgado HM, Romero C, Pinto R, Ferreira JC, Cabral P, Canas N (Portugal)

Temporo-parieto-occipital disconnection in posterior quadrantic epilepsy: a case series

Resective surgery for infants and young children with refractory epilepsy: do early surgical interventions result in good seizure and developmental outcomes?
Ono T, Baba H, Toda K (Japan)

Bone mineral density (BMD) in refractory epilepsy treated with epilepsy surgery outcome
Tamimi AF, Al-Qukah AA, Dahbour SS, Albohau YG, Al-Masri AT, Tarweh RM, Al-Sharif AA, Juweid ME, Abou-E-Rish DM, Saleh QA (Jordan)

Localized, intra-tuberal epileptogenicity revealed by intraoperative electrocorticography in tuberous sclerosis
Bailey CA, Maixner WJ, Mandelstam S, Freeman JL, Harvey AS (Australia)

Development of focal brain cooling system for the treatment of intractable epilepsy

The experience of image guided operation oriented by intraoperative MRI in epilepsy surgery
p602 Short-term healthcare utilization in stereotactic MRI-guided laser ablation for treatment of mesial temporal lobe epilepsy
 Helmers SL, Gross RE, Willie JT (USA)

p603 Is additional amygdalohippocampectomy necessary for the intractable lesional temporal lobe epilepsy?
 Kishima H, Oshino S, Tani N, Maruo T, Khoo HM, Morris S, Yoshimine T (Japan)

p604 The use of minimally invasive MR-guided laser interstitial thermal therapy in the treatment of mesial temporal lobe epilepsy of children and young adults
 Witcher MR, Couture D, Sam M, Popli G (USA)

p605 Results of surgical treatment with or without intraoperative ECoG in paediatric epilepsy with supratentorial brain tumours
 Kholin A, Khalilov V, Vasil’iev I (Russian Federation)

p606 Mitochondrial disorders in neocortex of patients with refractory epilepsy

p607 Correlation between behavior patterns of focal seizures and localization of epileptogenic lesions
 Ristic AJ, Vojvodic N, Kovacevic M, Bascarevic V, Parojcic A, Brajkovic L, Sokic D (Serbia)

p608 Epilepsy surgery: 40 years experience
 Garcia-Flores E (Mexico)

p609 Epileptic network analysis based on simultaneous EEG and fMRI of epilepsy surgery candidates: a comparison with invasive recordings and surgical outcome measures

p610 Robotic-assisted craniotomy for selective resection in epilepsy surgery: our initial experience at the Montreal Neurological Institute and Hospital
 Mok K, Hoeprich M, Klein D, del Pilar Cortes M, Tampieri D, Hall J, Olivier A (Canada)

p611 Corpus callosotomy in children with Dravet syndrome and SCN1A abnormality
 Ritter F, Doescher J, Wical B (USA)
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p612  Clinical spectrum of SCN2A mutations expanding to Ohtahara syndrome
Nakamura K1, Kato M1, Osaka H1, Yamashita S1, Nakagawa E1, Haginoya K1, Tohyama J1, Okuda M1, Wada T1, Shimakawa S1, Imai K1, Takeshita S1, Ishiwata H1, Lev D2, Lerman-Sagie T2, Cervantes-Barragán DE3, Villarroel CE3, Ohfu M1, Writzel K1, Stražišar BG4, Hirabayashi S1, Chilayat D5, Myles Reid D5, Nishiyama K1, Kodera H1, Nakashima M1, Tsurusaki Y1, Miyake N1, Hayasaka K1, Matsumoto N1, Saitsu H1 [Japan, 2Israel, 3Mexico, 4Slovenia, 5Canada]

p613  The role of CYP2C9 polymorphisms in phenytoin-related cerebellar atrophy
Twardowschy CA, Werneck L, Scola R, De Paola L, Silvado C [Brazil]

p614  Mutations in PRRT2 result in familial infantile seizures with heterogeneous phenotypes including febrile convulsions and probable SUDEP

p615  Focal spikes in asymptomatic members of juvenile myoclonic epilepsy families with mutated epilepsy genes
Gill SN1, Duron RM1, Medina MT1,2, Martínez-Juarez I1, Alonso MA1,3, Ochoa A1, Jara-Prado A1,3, Machado-Salas J1, Tanaka M1, Bailey JN1, Delgado-Escueta A1 [USA, 2Israel, 3Mexico]

p616  Novel mutations in pyridoxine dependent epilepsy in a Chinese child

p617  Association with ABCC2 loci for seizure control in women with epilepsy on first-line antiepileptic drugs (AEDs)
Bala K, Grover S, Gourie-Devi M, Sharma S, Kukriti R [India]

p618  Identifying novel progressive myoclonus epilepsy genes by exome sequencing
Muona M1, Berkovic SF2, Dibbens LM4, Joensuu T1, Oliver KL2, Bayly MA2, Hämäläinen E1,3, Palotie A1,3, Lehesjoki A-E1, for the PME Consortium [1Finland, 2Australia, 3United Kingdom, 4USA]

p619  CACNA1A variants as a potential genetic modifier of Dravet syndrome
Ohmori I, Ouchida M, Kobayashi K, Ohtsuka Y, Matsu H [Japan]
p620  Association of multidrug resistance 1 (MDR1) gene C3435CT polymorphisms with antiepileptic drug resistance in South Indian epileptic population Turaga SP, Deepika D, Munshi A (India)

p621  STOP SUDEP program: analytical algorithm to assess the diagnostic utility of archived SUDEP samples Klassen TL¹, von Döbeln U², Tomson T³, Drabek J¹, Diaz-Soto M¹, Noebels JL¹, Goldman AM¹, STOP SUDEP Program Network (¹USA, ²Sweden)

p622  A novel mutation of M1630V in CACNA1H in idiopathic generalized epilepsies Bai D¹, Alonso ME², Martinez-Juarez IE², Bailey JN¹, Medina MT¹, Tanaka M¹, Durón R¹, Wang M¹, Jara-Prado A², Ochoa A², Delgado-Escueta AV¹ (¹USA, ²Mexico, ³Honduras)


p624  Genetic analysis in the patients with epilepsy and intellectual disability Nakaqawa E, Takeshita E, Maruyama S, Nagai S, Goto Y-I (Japan)


p626  The PRRT2-related disorders: further PKD and ICCA cases and review of the literature Becker F¹, Schubert J¹, Striano P², Antononen A-K³, Liiukonen E³, Gailly E³, Gerloff C¹, Müller S¹, Heussinger N¹, Kellinghaus C¹, Robbiano A¹, Polvi A³, Zettel S¹, von Oertzen T¹, Rostasy K¹, Schöls L¹, Warner T¹, Münchau A¹, Lehesjoki A-E³, Zara F², Lerche H¹, Weber VG¹ (¹Germany, ²Italy, ³Finland, ⁴United Kingdom, ⁵Austria)

p627  Phenotype of patients with a common c.649_650C PRRT2 mutation Igarashi A, Okumura A, Shimada S, Shimojima K, Abe S, Ikeno M, Shimizu T, Yamamoto T (Japan)

p628  X-linked periventricular nodular heterotopia due to FLNA-mutation inherited by the father Kasper BS¹, Chang BS², Kurzbuch K¹, Pauli E¹, Hehr U¹ (¹Germany, ²USA)

p629  Etiology of hippocampal sclerosis: further evidence for a predisposing familial morphological abnormality Tsai M-H¹-², Pardoe HR¹, Perchyonok Y¹, Fitt GJ¹, Scheffer IE¹, Jackson GD¹, Berkovic SF¹ (¹Australia, ²Taiwan, Republic of China)
Systems biology approach to juvenile myoclonic epilepsy: contribution of the ionotropic GABAergic system
Jaworski M, Wasslen Y (Canada)

Increased CPA6 promoter methylation in focal epilepsy and in febrile seizures
Belhedi N¹, Perroud N², Karege F¹, Vessaz M², Malafosse A², Salzmann A³
¹(Tunisia, ²Switzerland)

Towards a strategy to unravel autosomal recessive encephalopathies
Hardies K¹, Weckhuysen S¹, Barisî N², Jansen A², De Meirleir L¹, Van Paesschen W¹, De Jonghe P¹, Suls A¹
¹(Belgium, ²Croatia)

Association of HLA-B*1502 allele and lamotrigine-induced Stevens-Johnson syndrome and toxic epidermal necrolysis in Han Chinese: a meta-analysis
Zeng T, Min FL, Liao WP, Shi YW (China)

Splice-site mutations in SCN1A cause epilepsies with febrile seizures: mechanisms and correlations with clinical severity

Familial cortical myoclonic tremor and epilepsy (FCMTE): refinement of the FCMTE2 locus
Licchetta L, Bisulli F, Pippucci T, Cantalupo G, Alvisi L, Martinelli P, Naldi I, Seri M, Tinuper P (Italy)

Copy Number Variant burden in a paediatric population with epilepsy
Coppola A, Tostevin A, Leu C, Schoeler N, Cross HJ, Sisodiya SM (United Kingdom)

KCNQ2 and KCNQ3 abnormalities in benign neonatal epilepsy (BNE): a genetic analysis of BNE in Japan
Yukiko I, Ishii A, Kaneko S, Hirose S, The Epilepsy Genetic Study Group Japan (Chairperson, SK) (Japan)

Polymorphism of the multidrug resistance 1 gene MDR1/ABCB1 C3435T and response to antiepileptic drug treatment in Temporal lobe epilepsy
Manna I, Labate A, Mumoli L, Fertazzo E, Aguglia U, Quattrone A, Gambardella A (Italy)

Role of rare copy number variations in malformations of human cerebral cortex
Torres FR, Souza DA, Guerreiro MM, Montenegro MA, dos Santos AC, Terra VC, Sakamato AC, Cendes F, Lopes - Cendes I (Brazil)

Association between HLA-A*2402 allele and Lamotrigine-induced Stevens-Johnson syndrome in Han Chinese
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p641 Neurometabolic effect of repetitive transcranial magnetic stimulation in the epileptic brain: a sham-controlled proton magnetic resonance spectroscopy study
Kistsen V, Evstigneev V, Bulaev I (Belarus)

p642 In vivo 4.7 tesla MRI-based manual hippocampal segmentation identifies subfield-specific volume loss in patients with mesial temporal sclerosis: results from a pilot study
Steve TA, Seres P, Huang Y, Wheatley M, Wilman AH, Malychin N, Gross DW (Canada)

p643 Peculiarities of structural white matter abnormalities and clinical aspects of epilepsy
Kistsen V, Evstigneev V, Bulaev I, Sakovich R (Belarus)

p644 Advanced MRI morphological study shows no atrophy in healthy individuals with hippocampal hyperintensity
Labate A, Cerasa A, Cherubini A, Pantusa M, Borzi G, Aguglia U, Gambardella A (Italy)

p645 Diffuse cortical atrophy in extra-temporal epilepsy with non-diagnostic MRI
Hong SJ, Schrader D, Bernhardt BC, Bernasconi N, Bernasconi A (Canada)

p646 EEG-fMRI of the cyclic alternating pattern in human NREM sleep
Kokkinos V1, Vulliemoz S2, Koupparis AM1, Chaudhary UJ2, Rodionov R2, Carmichael D2, Koutroumanidis M2, Kostopoulos GK1, Lemieux L2, Garganis K1 ([Greece, 2United Kingdom]

p647 PET/MRI surface analysis in refractory epilepsy: a feasibility study

p648 The impact of guidelines on the quality of MRI diagnostics in adult patients referred to a tertiary epilepsy centre
Steinhoff BJ, Bacher M, Keller L, Kornmeier R, Kurth C, Mathews K, Martin P, Scholly J, Staack AM (Germany)

p649 Quantitative MRI detects abnormalities in relatives of patients with temporal lobe epilepsy and mild focal cortical dysplasia

p650 FDG-PET in infancy predicts long-term outcome during adolescence in cryptogenic West syndrome
p651  Quantitative amygdalar MR FLAIR signal analysis in mesial temporal lobe epilepsy  
Elisevich K, Jafari-Khouzani K, Smith B, Soltanian-Zadeh H (USA)

p657  FDG-PET using statistical analysis provides reliable surgical decision criteria in temporal lobe epilepsy  
Iimura Y, Sugano H, Nakajima M, Higo T, Arai H (Japan)

p652  Non-dominant-hand sensory aura may lateralise to either cerebral hemisphere  
Abbott DF, Jackson GD, Carey LM (Australia)

p658  Altered spontaneous low-frequency BOLD fluctuations in mesial temporal lobe epilepsy  
Yin W, Luo C (China)

p653  Diagnostic value of double inversion recovery brain imaging at 3T in the detection of focal cortical dysplasia in epilepsy patients  
Ding J, Mao L, Chen C, Wang H, Wang X (China)

p659  Resting state cingulate network in idiopathic generalized epilepsy  
Guo Z, Luo C, Zhou D, Yao D (China)

p654  Automated shape analysis improves the detection of hippocampal atrophy in patients with temporal lobe epilepsy  

p660  The role of 11C-Methionine positron emission tomography in evaluating the epileptogenic region  

p655  Investigation of the brain networks underlying eye closure sensitivity in Jeavons syndrome and healthy subjects: an EEG-fMRI study  
Vaudano AE1,2, Avanzini P1, Ruggieri A1, Cantalupo G1, Di Bonaventura C1, Nichelli PF1, Benuzzi F1, Meletti S1  
(1Italy, 2United Kingdom)

p661  White matter fiber diameter based optimal magnetic resonance diffusion weighted sequence  
Jiang S, Zhang P, Zhao S, Liu J (China)

p656  Transcranial parenchymal sonography in juvenile myoclonic epilepsy  
Jovic NJ, Mijajlovic M (Serbia)

p662  Arterial spin labelling perfusion MRI in epilepsy surgery evaluation  

p663  Patterns of large-scale brain networks organisation in lesional and non-lesional extra-temporal epilepsy  
Hong SJ, Bernhardt B, Bernasconi N, Bernasconi A (Canada)
Altered structural and functional connectivity of thalamocortical network in idiopathic generalized epilepsy
Kim JH, Kim JB (Korea, Republic of)

Functional connectivity changes in absence epilepsy studied by resting-state functional magnetic resonance imaging
Fang T (China)

In vivo myelin content alteration in absence epilepsy revealed by T1- and T2-weighted MRI
Fang T (China)

NIFTE - a novel method of multimodal fusion of EEG signal - f MRI image to study neurohaemodynamic activity in epilepsy and its clinical applications
Mangalore S, Rajanikanth P, Bharath RD, Gupta AK (India)

Assessment of dynamic effective connectivity of epileptic networks in temporal lobe epilepsy using scalp EEG

Comparison of 3T and 1.5T brain magnetic resonance imaging in the evaluation patients with drug-resistant focal epilepsy

MRI profiling of the transmantle sign
Schrader DV, Bernasconi A (Canada)

Altered resting-state connectivity of the insula during interictal generalized spike-wave discharges in drug-naive childhood absence epilepsy
Yang T, Luo C, Li Q, Gong Q, Zhou D (China)

Extra-temporal memory encoding networks in temporal lobe epilepsy- an fMRI study

Altered default-mode network in benign childhood epilepsy with centrotemporal spikes
Tu S, Zhang Y, Wang X, Luo C, Yao D (China)

Functional connectivity analysis in Language network in benign childhood epilepsy with centrotemporal spikes
Zhang Y, Wang X, Tu S, Luo C, Yao D (China)

Imaging epileptic networks using local Canonical Correlation Analysis: a simultaneous EEG-fMRI study
Dong L, Luo C, Yao D (China)

Is there loss of volume in extrahippocampal structures in pure MTLE with HS not discernible by high resolution structural MRI?
Madhusoodanan M, Radhakrishnan A, Hassan H, Thomas B, Kesavadas C, Abraham M, Radhakrishnan K (India)
Focus diagnosis of mesial temporal lobe spontaneous seizures by optical topography
Edison RE, Yokota H, Oguro K, Watanabe E (Japan)

BOLD responses related to focal frontal spikes and widespread bilateral synchronous discharges
An D, Dubeau F, Gotman J (Canada)

Temporal cortex surface morphometry in mesial temporal lobe epilepsy patients and their unaffected siblings
Alhusaini S, Whelan CD, Doherty CP, Delanty N, Fitzsimons M, Cavalleri GL (Ireland)

Decreasing scanning time and increasing sensitivity in EEG-fMRI studies of epileptic patients using a new fast MRI sequence
Safi-Harb M, Proulx S, An D, Gotman J (Canada)
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p681 Computer-assisted test battery for neuropsychological evaluation in epilepsy: normative data
Jones-Gotman M, Djordjevic J, Sziklas V, Sodums D, Bellerose J, Shuchat J (Canada)

p682 Postoperative neuropsychological changes in patients with non-dominant posterior cortex epilepsy

p683 Cognitive development of benign epilepsy with centrotemporal spikes (BECTS): does the epileptic side make any cognitive difference?
Mendizabal S (Canada)

p684 Cognition, behaviour and quality of life five to ten years after childhood epilepsy surgery
Smith ML, Tremblay M, Puka K, Tavares T (Canada)

p685 Analysis of cognitive impairment and correlation with seizures variables
Nadkarni VV, Acharya MK (India)

p686 Fluent language disorders in adults with temporal lobe epilepsy
Hirozane M, Murata Y, Taniguchi G, Sone D, Takeda K, Sugai C, Watanabe M (Japan)

p687 Pre- and post-operative neuropsychological function in epileptic patients undergoing partial insulectomy

p688 Blurring of the gray and white matter boundary and cognition in focal cortical dysplasia
Blackmon K, Barr WB, Carlson C, Quinn BT, Kuzniecky R, Devinsky O, French J, Thesen T (USA)

p689 Neurocognitive profiling of depression in epilepsy
Rayner G, Jackson G, Wilson S (Australia)

p690 A more realistic approach, using dynamic stimuli, to test facial emotion recognition impairment in temporal lobe epilepsy
Tanaka A, Akamatsu N, Toyota T, Yamano M, Tsui S, Kawamura M, Nakagawa M (Japan)

p691 A protocol for the assessment of language networks using fMRI: application of different methods of data analysis and relation to Wada test results
Gosar D¹, Cus A¹, Koritnik B¹, Lorber B¹, Hamer H², Pauli E² (¹Slovenia, ²Germany)

p692 Profiling musical function in focal epilepsy: a case series
Bird LJ, Jackson GD, Abbott DF, Wilson SJ (Australia)
p693 Memory outcome after temporal lobe resection in childhood
Skrillow C, Cross H, Cormack F, Meierotto E, Gaiottino J, Harkness W, Vargha-Khadem F, Baldeweg T (United Kingdom)

p694 The assessment of long-term memory in temporal lobe epilepsy [TLE]: the contribution of standard and extended delays of recall
Cus A¹, Gosar D¹, Lorber B¹, Hamer H², Pauli E²
¹Slovenia, ²Germany

p695 Subjective memory evaluation before and after temporal lobe epilepsy surgery
Huang C-W², Hayman-Abello B¹, Hayman-Abello S¹, Derry P¹, McLachlan RS¹
¹Canada, ²Taiwan, Republic of China

p696 New methods for examining family functioning in epilepsy
Wilson S, Rayner G, Lawrence JA (Australia)

p697 Contribution of hippocampal subfields to memory processes in humans: the role of CA1 and the dentate gyrus
Pauli E, Coras R, Schwarz M, Kasper B, Stefan H, Rössler K, Hamer H, Blümcke I (Germany)

p698 Visual novelty processing in patients with unilateral temporal lobe resection
Hendriks MPH, Grouls MME, Colon A, Schomaker J, Meeter M (Netherlands)

p699 Development of an abstract word-learning test for temporal lobe epilepsy: English-French equivalence and clinical findings
Sziklas V, Crane J (Canada)

p700 Neuropsychological profiles in familial periventricular nodular heterotopia
Kurzbuch K¹, Pauli E¹, Chang BS², Walker LM², Kasper BS¹
¹Germany, ²USA

p701 Does polytherapy or cortical resection influence the ability of people with epilepsy to benefit from a memory rehabilitation program?
Thayer ZC, Miller LA (Australia)

p702 Accelerated long-term forgetting [ALF] for new autobiographical experiences occurs in temporal lobe epilepsy (TLE) but does not explain retrograde autobiographical memory impairments
Ricci M, Mohamed A, Savage G, Miller LA (Australia)

p703 Seizures (but not interictal discharges) within 24 hours cause accelerated long-term forgetting [ALF] of autobiographical experiences in patients with temporal lobe epilepsy [TLE]
Ricci M, Mohamed A, Boserio J, Savage G, Miller LA (Australia)

p704 Children (10 - 12 years age) of mothers with epilepsy have lower intelligence and visual attention
Gopinath N, Muneer AK, Unnikrishnan SK, Thomas SV (India)

p705 Decision making in rolandic epilepsy
Lunardi L, Fuentes D, Guimarães C, Bocciardi M, Manreza ML, Miziara C, Guerreiro M (Brazil)
p706 WISC-III-taking fatigue in children with epilepsy: no major issue
van Iterson L, Augustijn PB (Netherlands)

p707 Empathy ability and emotion recognition in temporal lobe epilepsy and idiopathic generalized epilepsy
Zummo L, Realmuto S, Cerami C, Agrò L, Dodich A, Canessa N, Zizzo A, Daniele O (Italy)

p708 Episodic and semantic memory in children with temporal lobe epilepsy: are they related to literacy skills?
Lah S12, Smith ML3 (1Austria, 2Australia, 3Canada)

p709 Hippocampal NAA as an evaluative method for memory function: Japanese normative database
Maruyama N, Sawai Y, Kawata K, Hirabayashi H, Hoshida T (Japan)
| p710 | Delays to epilepsy diagnosis in children with early-onset epilepsy: a community-based experience | Berg AT, Baca CB, Loddenkemper T (USA) |
| p712 | Resistant forms of epilepsy in children of early age | Fomina MY (Russian Federation) |
| p713 | Sleep disturbances in school-aged children with and without epilepsy: prevalence and its effect on health-related quality of life | Gutter T, Brouwer OF, de Weerd AW (Netherlands) |
| p714 | Life quality and health of adolescents and emerging adults with epilepsy during their years of transition: a scoping review | Thomson L, Fayed N, Ronen G (Canada) |
| p715 | The efficacy of intravenous valproate compared to intravenous phenobarbital in controlling seizures among paediatric patients with benzodiazepine-refractory status epilepticus: a randomized controlled trial | Banta-Banzali LKF, Obligar PD, Panlilio JR, Pasco PM (Philippines) |
| p716 | Assessing the conceptual content in health status and quality of life measures in paediatric epilepsy using World Health Organization definitions | Sadeghi S, Ronen GM, Fayed N (Canada) |
| p717 | Neurocognitive function in children with newly diagnosed epilepsy | Lee KY, Park SJ (Korea, Republic of) |
| p718 | Clinical features of benign infantile convulsions with mild gastroenteritis: a retrospective study of 34 cases in a single center | Chung S, Lee EH (Korea, Republic of) |
| p720 | The risk of post-traumatic epilepsy in children after traumatic brain injury | Diaconu G, Grigore I, Marin B (Romania) |
| p721 | A rare combination of the neurocutaneous melanosis and Dandy-Walker variant with drug-resistant epilepsy: case report | Kirilova LG, Miroshnykov OO, Lysytsa VV, Tkachuk LI, Shevchenko OA, Silaeva LY, Grabovenska IO (Ukraine) |

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p722 Analysis of compliance and safety of ketogenic diet treatment of children with intractable epilepsy
Zhou S-Z, Yu L-F, Wang X-H, Zhang L-M (China)

p723 Clinical features and therapeutic effecte of 30 patients with Landau-Kleffner syndrome

p724 Efficacy of low glycemic index diet therapy in children with refractory epilepsy: a randomized controlled trial
Kannan L, Gulati S, Agarwala A, Kabra M, Tripathi M, Pandey RM (India)

p725 A genetic basis for treatment response to the Ketogenic diet
Schoeler NE, Cross JH, Sander JW, Sisodiya SM (United Kingdom)

p726 Role of emergency CT scan as an investigative tool in children with first afebrile seizure

p727 Variability in the diagnosis and management of electrical status epilepticus of sleep
Ramachandran Nair R, Go C (Canada)

p728 Long term outcome of Lennox-Gastaut syndrome
Kim HJ, Kim HD, Lee JS, Lee Y-M, Kang H-C (Korea, Republic of)

p729 Efficacy of repeated adrenocorticotropic hormone therapy in patients with intractable epileptic spasms
Ikegami M, Takahashi Y (Japan)

p730 Increased inflammatory cytokines in sera of children with acute-onset febrile seizures
Yu J, Kang DS, Koh JW, Jeon JS, Kim JK (Korea, Republic of)

p731 Characterization of epileptic seizures in the first 3 years of life of newborns at risk. Cuba
Exposito Fernandez Y (Cuba)

p732 Clinical, cognitive and behavioral outcome in females with PCDH 19 gene - related epilepsy
Cusmai R, Moavero R, Terracciano A, Cappelletti S, Vegano V, Specchio N (Italy)

p733 High-dose oral prednisolone in West Syndrome - a viable alternative to ACTH
Chong CSM, Tan JCL, Wun G, Chan DWS (Singapore)

p734 Understanding the relationship between infantile spasms and autism
Bitton JY, Demos M, Carmant L, Canadian Pediatric Epilepsy Network (CPEN) (Canada)

p735 Clinical characteristic and treatment of epilepsy for children with tuberous sclerosis
Grigore I, Diaconu G, Burlea M (Romania)

p736 Dravet syndrome in Sweden: a population based study
Hallböök T, Rosander C (Sweden)

p737 Transition from paediatric to adult health care for young adults with significant cognitive impairments and epilepsy: parental perspectives
Davies H, Rennick J, Majnemer A, Dubéau F, Koutsogiannopoulos S (Canada)
p738 Treatment outcome of Lennox-Gastaut syndrome

p739 Late-onset epilepsy in children after acute febrile encephalopathy with prolonged convulsions
Saito T, Saito Y, Sugai K, Nakagawa E, Komaki H, Kaneko Y, Kaido T, Takahashi A, Otsuki T, Sakuma H, Sasaki M (Japan)

p740 Clinical characteristics of epileptic seizures in a case of dihydopteridine reductase deficiency
Furujo M, Kinoshita M, Shintaku H, Kubo T (Japan)

p741 Menkes disease: an important cause of early onset refractory seizures
Jain P, Kannan L, Kumar A, Gupta N, Kabra M, Gulati S (India)

p742 Epidemiologic, clinical and etiological aspects of epileptic encephalopathy in senegal
Ould Mohamede dinine S, Ndiaye M, Ba EM, Diagne NS, Ben Adji DW, Seck LB, Cisse O, Diop AG, Ndiaye MM (Senegal)

p743 Focal cortical dysplasia and epilepsy in infancy: focal seizures versus epileptic spasms
Serino D, De Giorgi I, Ragona F, Granata T, Bernardi B, Specchio N, Fusco L, Vigevano F (Italy)

p744 Clinical features and long-term surgical outcome of children with epilepsy due to focal cortical dysplasia
Choi HW, Yum MS, Kim EH, Kim SA, Kim JJ, Khang SK, Hong S, Lee JK, Ko TS (Korea, Republic of)

p745 Intravenous levetiracetam in children with acute repetitive or prolonged seizures

p746 The etiological profile of neonatal seizures and neurodevelopmental outcome
Gürbüz G, Ünalp A, Ozbek E, Unal N, Calıkvur S, Oluksman O, Arslanoglu S (Turkey)

p747 Evaluation of efficacy of vagus nerve stimulation in 62 children with up to four years follow-up in a single center in Lebanon
Hmaimess G, Sabbagh S, Sayad S, Nachanakian A (Lebanon)

p748 How many antiepileptic drugs should be tried to diagnose intractable partial epilepsies in children or young adults?

p749 European randomized controlled trial in children with electrical status epilepticus in sleep (ESES)
vanden Munckhof B1, Arzimanoglou A2, Perucca E3, Braun KP1, Jansen FE1, ESES Study Group (1Netherlands, 2France, 3Italy)

p750 White matter development in children with idiopathic localization-related epilepsy

p751 Initial EEG findings in children presenting with new-onset epilepsy
Kenney DL, Wong-Kisiel L, Nickels K, Wirrell E (USA)
**TUESDAY 25TH JUNE**

**Late breaking posters**

**LBP1084**  
BE - Beyond Epilepsy: an education and advocacy program in Tanzania  
*Jurasek L, Carline S (Canada)*

**LBP1085**  
Cross-sensitivity of adverse psychiatric and behavioral effects with antiepileptic drug use  
*Chen B, Detynecki K, Hirsch L (USA)*

**LBP1086**  
Opportunity of using recombinant human interleukin-2 in patients with epilepsy  
*Lipatova LV, Serebryanaya NB, Sivakova NA (Russian Federation)*

**LBP1087**  
Word-finding difficulties and retigabine: act with caution!  
*Unterberger I, Prieschl M, Walser G, Bergmann M, Luef G (Austria)*

**LBP1088**  
Pharmacokinetics and tolerability of intranasal diazepam in adult patients with epilepsy  
*Sperl M, Seif Eddeine H, Haas KF, Krauss G, Henney III HR, Rabinowicz AL, Bream G, Grinspan A, Carrazana EJ (USA)*

**LBP1089**  
Epilepsy; what do health professionals in Riyadh know?  
*Alaqeel A, Alebdi F, Sabbagh A (Saudi Arabia)*

**LBP1090**  
Voltage gated sodium channel gene polymorphisms are associated with epilepsy  
*1(China), 2(Malaysia), 3(USA), 4(Australia)*

**LBP1091**  
Mutations in GRIN2A cause idiopathic focal epilepsy with rolandic spikes  
*1(Germany), 2(Austria), 3(Switzerland)*

**LBP1092**  
Hippocampal malrotation is associated with chromosome 22q11.2 microdeletion  
*Andrade DM, Krings T, Chow EWC, Kiehl T-R, Bassett AS (Canada)*

**LBP1093**  
Amygdala enlargement in patients with mesial temporal lobe epilepsy without hippocampal sclerosis  
*Morita ME, Coan AC, Campos BM, Yasuda CL, Cendes F (Brazil)*

**LBP1094**  
International consensus classification of hippocampal sclerosis in temporal lobe epilepsy: a task force report from the ILAE Commission on Diagnostic Methods  
*1(Germany), 2(United Kingdom), 3(Netherlands), 4(USA), 5(France), 6(Canada), 7(Brazil), 8(Japan), 9(Turkey), 10(Italy)*
LBP1095  Angiocentric glioma: seven cases report including two cases with unusual histological features  
Piao Y-S, Ni H-C, Chen L, Lu D-H (China)

LBP1096  Alexithymia in epilepsy patients  
Zisimopoulou V, Siatouni A, Triantafyllou N, Tavernarakis A, Sakas D, Gatzonis S (Greece)

LBP1097  Research of communication skills in patients with epilepsy  
Abbas RTB, Messas CS (Brazil)

LBP1098  Are American Academy of Neurology epilepsy quality measures being followed in children?  
Clarke D, Jean S, Tindall K, LeSure S, Perkins F (USA)

LBP1099  Atypical SSPE case with myoclonic jerks without EEG findings  
Uzun M, Çinar B (Turkey)

LBP1100  Does the sleep disturbance scale distinguish among children with different neurological disorders?  
Shuper A, Cohen R, Halevi A (Israel)

LBP1101  Successful treatment two children with drug resistant myoclonic-astatic epilepsy (Doose syndrome) with ketogenic diet  
Bachanski M, Wierzbicka A, Kmiec T, Rokicki D, Olszaniecka M (Poland)

LBP1102  Insight in the anterior prefrontal cortex: the patient who became Goofy and danced like Michael Jackson  
Neilson J, Snyder T, Pugh J, Wheatley M, Tang-Wai R (Canada)

LBP1103  Acute encephalitis with refractory, repetitive partial seizures (AERRPS)/febrile infection-related epilepsy syndrome (FIRES): a multicenter study on 13 children  
Sakuma H, Kuki I, Tanuma N, Hayashi M (Japan)

LBP1104  Study of etiological profile of infantile and childhood partial seizures at a tertiary care centre in south India  
Vykuntaraju KN, Smitha S, Kumar P, Premalatha R (India)

LBP1105  Automated detection and video analysis for nocturnal childhood events (ADVANCE)  
Ng ES, Chan WSD, Eng HL, Darsono W, Ng YL (Singapore)

LBP1106  Use of the MOXO test to evaluate the core components of ADHD in epileptic patients  
Cohen R, Halevi A, Shuper A (Israel)

LBP1107  Two children with refractory occipital lobe epilepsy: the distinguishing clinical, electrographic, electrocorticographic features of Rasmussen’s encephalitis  

LBP1108  Complications of prolonged treatment with the ketogenic diet in treatment resistant epilepsy  
Gainza M1, Michoulas A2, Connolly MB2, Zanotta F2, Simonson C2, Huh L2, Selby K2, Farrell K2 (1Chile, 2Canada)
LBP1109  The evaluation of 12 patients with hippocampal malrotation: a single centre experience  
Gençpinar P, Karaali K, Haspolat S, Duman Ö (Turkey)

LBP1110  KCNQ2 encephalopathy: electroclinical presentation and response to treatment in two new cases  
Numis AL¹, Sullivan JE¹, Lewis AJ¹, Singhal NS¹, Casara G², Striano P², Cilio MR² (¹USA, ²Italy)

LBP1111  Recovery of close brain injury and acquired aphasia: a case study  
Golubovic SM (Serbia)

LBP1112  Randomized controlled trial of external trigeminal nerve stimulation (eTNS™) for epilepsy: impact on mood as measured by the Beck depression inventory  
DeGiorgio C, Soss J, Cook I, Kealey C, Markovic D, Heck C (USA)

LBP1113  Mental disorders of patients with epilepsy in Belarus  
Makhrov M, Hlebokazov F, Matveichuk I, Dakukina T (Belarus)

LBP1114  Quality of life in children with epilepsy and cerebral palsy in Slovenia  
Jekovec-Vrhovšek M, Gosar D, Kržan MJ, Vrba L, Simic S, Neubauer D (Slovenia)

LBP1115  The clinical features and prognosis of patients with non-convulsive status epilepticus in the neuro-intensive care unit of a tertiary referral center in Turkey  
Dericioglu N, Arsava EM, Topcuoglu MA (Turkey)

LBP1116  Intravenous levetiracetam in Thai children and adolescent with SE and acute seizures  
Khongkhatithum C, Tampratankul L, Wiwattanadittakul N, Visudtibhan A (Thailand)
**WEDNESDAY 26TH JUNE**

**Poster session: Adult epileptology C**

- **p752** Points to keep in mind for primary care doctors in treating epilepsy patients
  
  *Asano S, Nakagomi T (Japan)*

- **p753** Postictal extreme elevation of serum creatine kinase in combination with increased liver transaminases
  
  *König K, Schedler A, Krämer G (Switzerland)*

- **p754** Video-Telemetry is associated with reduced health resource utilisation
  
  *Ghougassian DF, Beran RG, O’Brien TJ (Australia)*

- **p755** Walking PLEDs: a case report of “ictal” periodic lateralized epileptiform discharges
  
  *Peterson BW, Fiore CR, Mader EC, Olejniczak PW (USA)*

- **p756** Seizures after stroke in 12 young patients in Fann Teaching hospital
  
  *Sounga Bandzouzi PEG, Mbonda PCC, Noutsa LK, Ould Lemine S, Diop AG (Senegal)*

- **p757** Long term evolution of Unverricht Lundburg disease in Tunisian patients
  
  *Gargouri-Berrechid A, Hizem Y, Ben Djebara M, Kacem I, Gouider R (Tunisia)*

- **p758** SERDAS: a new disability scale for epilepsy patients
  
  *Wamil MB, Pollard JR, Burakazi E, French JA (USA)*

- **p759** Clinical management of epilepsy associated with cavernous hemangiomas and arteriovenous malformations
  
  *Kiteva-Trenchevska GA (Macedonia, [the Former Yugoslav Republic of]*

- **p760** Benign mesial temporal lobe epilepsy
  
  *Al Qassmi A, Mirsattari S, McLachlan R, Burneo J (Canada)*

- **p761** Nocturnal seizures masquerading as catathrenia: a case report
  
  *Bercovici E, Mirsattari SM (Canada)*

- **p762** Childhood-onset epilepsy predicts prolonged stay in the shadows
  
  *Fawale MB (Nigeria)*

- **p763** Measures for improving treatment outcomes for patients with epilepsy: results from a large multinational physician-patient survey
  
  *Groenewegen A¹, Mitchell A², Dedeken P³ (Belgium, ¹United Kingdom)*

- **p764** High prevalence of single small CT lesions among patients with juvenile myoclonic epilepsy: diagnostic and treatment implications
  

- **p765** Is classification of psychogenic nonepileptic seizures feasible in an outpatient short-term video EEG cohort?
  
  *Tan YL, Nigel Tan N (Singapore)*
Clinical, electroencephalographic and imaging correlates of primary and secondary Dyke Davidoff Masson syndrome in adults with intractable epilepsy
Templeton E, Das RR (USA)

Epilepsy in adult patients with Down syndrome
Grimmer A, Ott DVM, Holtkamp M (Germany)

Ictal and postictal MRI for the localization of seizure onset
Thomas GP, Liu J, Bujarski KA, Kobylarz EJ, Richardson KR, Thadani VM, Jobst BC (USA)

Identifying SCN1A mutations and treatment options in adult patients
Veendrick-Meekes MJBM, Lambrechts DAJE, van Erp G (Netherlands)

A case of musicogenic epilepsy

Evaluation of patients with ictal kissing automatism
Taskiran E1, Carpraz I1, Bilir E1, Demir A1, Bora 1, Chassoux F1, Aydogdu I1, Ozkara C1 (Turkey, France)

Some clinical features of post-traumatic epilepsy patients in Khan Uul district of Ulaanbaatar
Myangaa A, Avirmed T, Guntev T (Mongolia)

Postictal generalized EEG suppression is not a consistent finding in people with multiple 4 convulsive seizures
Lamberts RJ1, Gaitatzis A1, Sander JW1,2, Elger CE1, Surges R1, Thijs RD1,2 (Netherlands, United Kingdom, Germany)

Contribution of history and additional investigations in diagnostic allocation of new onset epileptic seizures and epilepsies
Weissinger E, von Bornstädt M, Kowski A, Holtkamp M (Germany)

Increased prevalence of electrocardiogram markers for sudden cardiac arrest in epilepsy
Lamberts R1, Blom MT1, Novy J1, Belluzzo M2,3, Seldenrijk A1, Penninx BWJH1, Sander JW1,2, Tan HL1, Thijs RD1,2 (Netherlands, United Kingdom, Italy)

Sudden cardiac arrest in epilepsy: circumstances and risk factors
Lamberts R1, Blom MT1, Wassenaar M1, Bardai A1, de Haan G-J1, Leijten FSS1, Sander JW1,2, Thijs RD1,2, Tan HL1 (Netherlands, United Kingdom)

Pilomotor seizures of autoimmune origin

Major obstacles in the management of adult epileptics in a tertiary referral hospital in Northeast Nigeria
Salawu FK, Olokoba AB, Martins OF, Machunga D, Isa BM, Danburam A (Nigeria)
Nocturnal focal epilepsy: clinical, neurophysiological and radiological analysis
Delil S, Yavuz Demiray D, Benbir G, Yeni N, Karaa aç N, Uzan M, Ozkara C (Turkey)

Cavum septum pellucidum: association with mental retardation, epilepsy, macrocephaly and hypogonadism in a 19-year old Nigerian female: a case report
Molokwu OA, Onwuekwe IO, Ekenze OS, Ezeala BA (Nigeria)

Is it head bobbing or head nodding seizures?
Stewart AM, Khan GQ, Bensalem-Owen M (USA)

The etiologic role of calcified cysticercotic lesion in drug-resistant epilepsy: a systematic review
Escalaya AL¹, Villafuerte MV², Singh G³, Burneo JG¹
¹Canada, ²Peru, ³India

Continuous EEG monitoring in critical care
Uribe R, Uslar W, Ciampi E, Romero G, Mellado P, Godoy J (Chile)

Reversible post partum Carbamazepine induced encephalopathy
Zaidan R (Saudi Arabia)

Profile of patients with epilepsy at Mohamed VI University Hospital of Marrakech
Kissani N, Boujemaoui A (Morocco)
p786  Impact of Nav1.1 knockdown on CA1 in hippocampal function
Sakkaki S, Bender AC, Holmes GL, Scott RC, Lenck-Santini P-P (USA)

p787  Effects of DC electric field on synaptic plasticity and seizure-like activity in thalamocingulate circuitry
Chang WP, Shyu BC (Taiwan, Republic of China)

p788  Structure based drug design, synthesis and screening of Adenosine A2A antagonists as novel antiepileptic drugs
Srikanth R, Reshma A, Sriram D, Perumal Y (India)

p789  Prenatal prevention of epilepsy: maternal tubacin treatment prevents embryonic neuronal migration defects and epileptic activity caused by rat Srpx2 silencing in utero

p790  Severe hypoglycemia in the hippocampal CA3 circuitry induces NMDA receptor dependent seizures and CA1 synaptic failure in vitro

p791  Expression change of semaphorin 3f in the hippocampus of the lithium chloride-pilocarpine epilepsy mouse model and its relation with mossy fiber prouting

p792  STE20/SPS1-related proline/alanine-rich kinase is involved in plasticity of GABA signaling function in mouse acquired epilepsy

p793  Gender differences in febrile seizure outcome and sexual dimorphism to early-life stress
Desgent S, Sanon NT, Duss S, Bilodeau G-A, Salam MT, Awad P, Di Cristo G, Carmant L (Canada)

p794  Epileptiform activity in a mouse model of the fetal alcohol syndrome
Krawczyk M, Ramani M, Florez CM, Mylvaganam S, Dian JA, Mcginn R, Carlen PL (Canada)

p795  The role of gap junctional communication in hypoglycemic and glucose reperfusion seizures
Sugumar SR, Tonkikh A, Zhang J, Florez CM, Zhang L, Carlen PL (Canada)

p796  Temporal lobe epilepsy - a glial disorder?
Bedner P, Dupper A, Hüttmann K, Cornelissen C, Martin T, Steinhäuser C (Germany)
The effects of eslicarbazepine on transient Na+ currents in chronically epileptic human hippocampus
Döser A1, Dickhof G1, Uebachs M1, Soares-da-Silva P1, Beck H1
1(Germany, 2Portugal)

Effects of age and gender on the pharmacokinetics of valproate and phenobarbital
Peng W, Li J (China)

Dextromethorphan attenuates seizure susceptibility in mice following systemic inflammation
Wu H-M, Huang W-Y (Taiwan, Republic of China)

Attention deficit caused by early life interictal spikes is improved with ACTH
Hernan AE1, Alexander A1, Jenks KR1, Barry J1, Lenck-Santini P-P1, Isaeva E12, Holmes GL1, Scott RC13
1(USA, 2Ukraine, 3United Kingdom)

Firing properties and reactivation of hippocampal place cells in rats with epilepsy during sleep
Titiz AS1, Lenck-Santini P-P1, Scott RC12, Holmes GL1
1(USA, 2United Kingdom)

Decrease in multifocality and spatial complexity contribute to seizure termination
Jiruska P12, Cmejla R1, Palus M1, Janca R1, Jefferys JGR2
1(Czech Republic, 2United Kingdom)

Functional impairment of adult hippocampal neurogenesis in patients with chronic mesial temporal lobe epilepsy
Claasen J-H, Garthe A, Scherfeld D, Christian B, Kempermann G (Germany)

Effects of a KCC2 blocker on network activity in piriform and entorhinal cortices
Hamidi S, Herrington R, Avoli M (Canada)

Characteristics of epileptic seizures in WAG/Rij rats with induced cortical dysplasia
Sahin D, Gurses C, Orhan N, Ugur Yilmaz C, Kucuk M, Ahishali B, Arican N, Ates N, Kaya M (Turkey)

Effect of levetiracetam and topiramate on kynurenic acid synthesis in rat brain
Kocki T (Poland)

Effects of newborn transplantation of neurospheres derived from medial ganglionic eminence in adult epileptic rats
Romariz SAA, Valente MF, Calcagnotto ME, Barnabé GF, Bittencourt S, Mello LE, Longo BM (Brazil)

NMMA and GABA-ergic mechanisms in the antiepileptic effect of tianeptine in experimental models of epilepsy
Reeta KH, Gupta YK (India)

Febrile seizures in immature mice induce a decrease in reelin-positive cells and facilitate granule cell dispersion induced by intra-hippocampal kainate
Hamelin S, Stamboulian-Platel S, Pouyatos B, Pallud J, Depaulis A (France)
Angiotensin II overexpression in the hippocampus may be responsible for the death occurring during pilocarpine induced status epilepticus

Critical slowing and increased sensitivity to perturbations precede onset of epileptic seizures in vitro
Jefferys JGR¹, Cmejla R², Paulus M¹ Jiruska P¹,² (United Kingdom, Czech Republic)

Long-term effects of single early-life seizures on cortical excitability
Rigas P, Nikita M, Sigalas C, Tsakanikas P, Skaliora I (Greece)

Current source density analysis of spontaneous interictal spikes in vivo
Flynn SP, Lenck-Santini P-PP, Holmes GL (USA)

Postnatal transplantation of neuronal precursor cells protects adult mice from PTZ-induced seizures
Calcagnotto ME, Valente MF, Romariz S, Paiva DS, Frussa-Filho R, Mello LE, Longo BM (Brazil)

Lacosamide reduces spontaneous excitatory and inhibitory postsynaptic potentials and is anticonvulsant in an in vitro neocortical seizure model
Krawczyk M, Florez CM, Lukankin V, Stern S, Valiante T, Carlen PL (Canada)

An oscillation-based feature set for seizure-like events in human temporal neocortical slice

Calcium binding proteins in focal cortical dysplasia type Ia
Kuchukhidze G¹, Trinka E¹, Unterberger I¹, Luef G¹, Ortler M¹, Wieselthaler-Hölzl A¹, Becker A¹, Sperk G¹ (Austria, Germany)

Quantification of leucine-rich glioma-inactivated 1 (LGI-1) protein in surgical tissue from temporal lobe epilepsy (TLE) patients
Gupta T, Dominguez MDC, Hall JA, Rosa-Neto P, Guiot M-C, Kobayashi E (Canada)

Up-regulation of downstream targets of metabotropic glutamate receptor type 5 (mGlur5) signaling pathway in temporal lobe epilepsy (TLE) hippocampal surgical tissue
Dominguez MDC, Guiot M-C, Hall JA, Rosa-Neto P, Kobayashi E (Canada)
**WEDNESDAY 26TH JUNE**

Poster session: Clinical neurophysiology B

**p820** The origins of magnetism and its evolution into a non-invasive brain stimulation tool
Rodrigues AM¹, Lara Sanchez N²
[¹United Kingdom, ²Spain]

**p821** Diagnostic accuracy of the color density spectral array (CDSA) and amplitude-integrated electroencephalography (aEEG) for seizure identification in the adult neurology intensive care unit
Yudan L, Zan W, Hongmei M
[China]

**p822** Cognitive effects of interictal epileptiform discharges in adult patients with epilepsy in China
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**p823** MEG can resolve paradoxical EEG lateralization: a case study
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**p824** Prediction of postoperative memory decline in patients with temporal lobe epilepsy using parahippocampal high gamma activity
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**p825** Discriminating preictal and interictal states using time irreversibility of the intracerebral EEG in patients with mesial temporal lobe epilepsy
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**p826** Relationship between initial EEG and prognosis of acute encephalitis
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**p827** Evaluation of the EEG pattern of spike and slow wave discharges: spatiotemporal analysis
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**p828** Semi-automatic detection of high frequency oscillations on scalp EEG of epileptic subjects
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**p829** Spatio-temporal features of rhythmic cortical activity in epilepsy due to chromosome ring 20
Avanzini P, Vaudano AE, Vignoli A, Ruggieri A, Benuzzi F, Darra F, Mastrangelo M, Dalla Bernardina B, Nichelli PF, Canevini MP, Meletti S
[Italy]

**p830** Intercital high frequency oscillations correlating with seizure outcome in patients with wide spread epileptic networks in tuberous sclerosis complex
Okanishi T¹, Akiyama T², Ochi A1, Otsubo H²
[¹Canada, ²Japan]

**p831** Cardiac autonomic activity changes during electroconvulsive therapy
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p832 Lateralization of generalized paroxysmal fast activity in children with intractable localization-related epilepsy
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p833 Postsurgical quantitative electroencephalograms in refractory temporal lobe epilepsy patients
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p835 Dual array EEG-fMRI
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p836 Are afterdischarges by cortical stimulation at seizure onset zones similar to clinical seizures? A study by subdural electrodes in partial epilepsy patients
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p839 Clinical and video-EEG study of a family with infantile convulsions and paroxysmal choreoathetosis (ICCA): neurophysiological considerations
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p841 Improved EEG source localization using a novel 3D sensor

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**p844** Evaluation of automatic detection of high frequency oscillations (80-450Hz) in multiple types of recordings
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[¹Canada, ²Germany, ³USA]

**p845** Wide-band detection and localization of normal high frequency oscillations in evoked response magnetic fields
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**p846** Analysis of ictal magnetoencephalography using Gradient magnetic-field topography (GMFT)
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**p847** Different clinical forms of eyelid myoclonia with and without absences: analysis of eyelid movements
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**p848** Network characteristics of spike-and-wave discharge in patients with juvenile myoclonic epilepsy
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**p849** Patterns of brain connectivity in epileptic patients
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**p850** Stimulus amplitude effect in time and frequency on responses to single pulse electrical stimulation in stereoelectroencephalographic studies
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**p851** The utility of ictal MEG as a complement to ictal EEG in epilepsy patients
Ito S¹,², Alexopoulos AV¹, Wang ZI¹, Mosher JC¹, Burgess RC¹
[¹USA, ²Japan]

**p852** Effect of cognitive stimulation on hippocampal ripples in epileptic patients
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[¹Czech Republic, ²USA]

**p853** Single unit recordings during a virtual water-maze navigation task
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p865  Prehospital Epilepsy Emergency Score (PEES) for differential diagnosis in emergency care
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p866  Prevalence and risk factors for active convulsive epilepsy in sub-Saharan Africa: cross-sectional and case control studies
Ngugi AK, SEEDS group (Kenya)

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1(China), 2(Australia)

p868  Predicting the presence of family history of epilepsy in patients with epilepsy
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p869  Canadian longitudinal study of aging-epilepsy algorithm: a proposed tool for detecting epilepsy in population-based studies
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p870  Long-term mortality in poor health and low income Americans with epilepsy
Kaiboriboon K, Schiltz N, Bakaki P, Lhatoo S, Koroukian S (USA)

p871  Epilepsy prevalence in Adana Centrum
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p872  A systematic review of screening tools for the identification of subjects with epilepsy in population-based research
Keezer MR, Wolfson C (Canada)

p873  Comorbidities and group comparisons of epilepsy-caused mental disability in China

p874  Prevalence and treatment gap of active convulsive epilepsy: a large community-based survey in rural West China
Si Y, Hu J, Liu L, Zhou D (China)

p875  Prevalence of depression and its impact on quality of life in patients with refractory focal epilepsy (IMDYVA Study)
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**p890** Direct cortical stimulation: a tool for resection of brain lesions in eloquent cortex  
Zorro O (Colombia)

**p891** Stereotactic MRI-guided laser ablation of epileptogenic foci in children  
Wilfong AA, Shetty A, Curry DJ (USA)

**p892** Calcified neurocysticercus lesions (CNL) and drug resistant epilepsy: surgically remediable syndrome?  
Rathore C, Thomas B, Kesavadas C, Abraham M, Radhakrishnan K (India)

**p893** Efficacy of MRI-guided stereotactic radiofrequency thermocoagulation for 82 intractable epilepsy patients with hypothalamic hamartoma  
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**p894** Long-term prognosis after resective epilepsy surgery failure  
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**p895** The role of intraoperative electrocorticography in detection of focal cortical dysplasia associated with hippocampal sclerosis  

**p896** Epilepsy surgery in pediatric intractable epilepsy with destructive encephalopathy  

**p897** Diagnostic benefit of invasive EEG recordings to clarify mesiotemporal epileptogenesis  

**p898** Surgical outcome in patients with MRI-negative, PET-positive temporal lobe epilepsy  
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**p899** Lateraling value of temporal neocortical apparent diffusion co-efficient (ADC) and T2 relaxometry values in mesial temporal lobe epilepsy with hippocampal sclerosis  
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p900  Safety and efficacy of intracranial EEG monitoring: the Queen Square experience from 2008 - 2012

p901  Preoperative estimation of seizure control after resective surgery for the treatment of epilepsy
Alarcon G1,2, Valentin A1, Kumar A1, Humayon D1, Lonbottom A1, Mullatti N1, Elwes RDC1, Bodí I1, Honavar M1, Jarosz J1, Selway RP1, Polkey CE1, Malik I1 [1United Kingdom, 2Spain]

p902  Value of magnetoencephalography to guide electrode implantation in epilepsy
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p903  Immediate improvement of motor function after epilepsy surgery for congenital hemiparesis: plasticity versus release of function

p904  Interictal estimation of intracranial seizure onset in temporal lobe epilepsy
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p905  Late onset amnesia after temporal lobectomy
Salmon A, Hayman-Abello B, Connolly B, McLachlan R [Canada]

p906  Cortical dysplasia along with another pathology: surgical temporal lobe epilepsy series
Buentello García RM, Daniel SJO, Horacio SM, Juana VH, Carlos CM, Jesus CM, Mauricio MP, Erika BM, Alonso Vanegas MA [Mexico]

p907  Surgical treatment of intractable paediatric epilepsy using thermal laser ablation
Miller I, Ragheb J, Hyslop A, Bhatia S, Jayakar P, Resnick T, Duchowny M [USA]

p908  Depth electrode investigation and focused laser thermal therapy for primary insular seizures
Wang Q1,2, Hogan RE2 [1China, 2USA]

p909  Seizure and developmental outcomes after hemispherotomy for refractory epilepsy in childhood and adolescence

p910  Epilepsy surgery in the hospital San Juan de Dios in Guatemala
Garcia Bautista VG, Stokes H, Sanchez Bravo W [Guatemala]
p911  Effect of deep brain stimulation in epilepsy (DBS-E) on sleep quality and sleep structure; stimulation of the anterior nucleus thalamicus, ANT, using the stimulatorsystem "ACTIVA" by MEDTRONIC, USA
Voges B, Epilepsy Study Group Hamburg (Germany)

p912  Intracranial electrographic patterns at seizure onset as prognostic factors for epilepsy surgery
Jimenez-Jimenez D1,2, Nekkare R1, Valentin A1, Selway RP1, Alarcon G1,3 (1United Kingdom, 2Ecuador, 3Spain)

p913  The effects of vagal nerve stimulation on generalized-partial seizure count and medical treatment in adult drug resistant epilepsy patients
Ozdogan S, Nurhat RH, Duzkalir AH, Sabuncuoglu H, Gokcil Z, Erdogan E (Turkey)

p914  Impact of seizure frequency on improvement in quality of life in medically and surgically treated patients with epilepsy: results from a randomized controlled trial
Wiebe S1, Fiest K1, Dykeman J1, Parrent A1, Eliaiszwi M2 (1Canada, 2USA)

p915  A surgical method for safely implanting large subdural electrode arrays in children
Baumgartner JE, Lee KH, Waller A, Chen P, Korostenskaja M, Westerfeld M, Salinas C, Cook J (USA)

p916  Vertical perithalamic hemispherotomy in paediatric catastrophic epilepsy: a single center experience of 38 children
Dorfer C, Czech T, Mühlebner A, Gröppel G, Dressler A, Reiter-Fink E, Traub-Weidinger T, Kasprian G, Feucht M (Austria)

p917  Surgery for extratemporal focal cortical dysplasia following a non-invasive presurgical protocol: the Porto Alegre series
Palmini A, Paglioli Neto E, Camargo D, Pascoal TA, Filho JR, Torres C, Hemp M, da Costa JC, Paglioli E (Brazil)

p918  “From the back”: posterior callosotomy for the treatment of drop attacks - the first 30 patients undergoing a novel surgical approach
Paglioli Neto E, Pinos L, Salles C, Hemp M, Severino RF, Azambuja N, Paglioli E, da Costa JC, Palmini A (Brazil)

p919  Temporal lobe tumours with refractory epilepsy: seizure and neuropsychological surgical outcome
Marinho MM, Noffs MHS, Comper SM, Carrete Jr H, Sandin G, Cabocho LO, Yacubian EM, Cavaleiro S, Centeno RS (Brazil)

p920  Epilepsy surgery in Guatemala: our experience in six years
Lara JC, Pérez JM, Galvez H, Ramírez G, Leon J, Jerez A, Pineda V, Rodenas G (Guatemala)
A randomized controlled trial of cathodal transcranial direct current stimulation in patients with multifocal epilepsy refractory to pharmacological treatment
San-Juan D, Maldonado LB, Garduño AJO, González-Aragón MF, Pathmanathan JS, Trenado C, Fregni F (Mexico, USA, Germany)

Clinical outcome during sequential chronic stimulation of the nucleus accumbens and the anterior thalamus for pharmacoresistant epilepsy - 1st part: 6 month stimulation of the nucleus accumbens
Schmitt FC, Voges J, Buentjen L, Zaehele T, Bohlmann K, Stefan H, Oltmanns F, Heinze H-J, Holtkamp M, Kowski A (Germany)

Prognosis and morbimortality in epilepsy surgery using grid (ECoG) or depth (SEEG) electrodes or both (ECoG +SEEG)

Report of 9 clinical cases: functional Hemispherectomy for epilepsy refractory to medical management
Zorro OF, Nariño D, Diaz LC, Acevedo JC, Diaz R, Berbeo M, Feo O (Colombia)

Multicenter experience with minimally invasive stereotactic laser thermal amygdalohippocampotomy for mesial temporal lobe epilepsy

Experience in epilepsy surgery in paediatric patients with refractory epilepsy in Mexico
Alva EM, Soledad RF, Antonio GG (Mexico)

Clinical outcome during sequential chronic stimulation of the nucleus accumbens and the anterior thalamus for pharmacoresistant epilepsy - 1st part: 6 month stimulation of the nucleus accumbens
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Multicenter experience with minimally invasive stereotactic laser thermal amygdalohippocampotomy for mesial temporal lobe epilepsy

Provocative test by electrical stimulation of the entorhinal area predicts memory impairment following mygdalohippocampectomy
Khoo HM, Kishima H, Tani N, Oshino S, Maruo T, Yanagisawa T, Hirata M, Katou A, Yoshimine T (Japan)

Surgical resection of high-frequency oscillation regions predicts favorable outcome in neocortical epilepsy
Hong SB, Cho JR, Kim JH, Hong SC, Jiruska P, Hwang KJ (Korea, Republic of, Czech Republic)
**WEDNESDAY 26TH JUNE**

**Poster session: Genetics B**

**p931** Pitfalls in diagnostic sequencing: the story of SCN1A mutations being missed in Dravet syndrome

Suls A1, Jaehn J2, Carvill GL3, Djémié T1, Weckhuysen S1, von Spiczak S1, Lehesjoki A-E4, Linnankivi T5, Anttonen A-K4, Serratosa JM6, Guerrero-López R6, Giraldez BG6, Lemke J1, Møller RS7, Hjalgrim H7, Mc Mahon J6, Hämäläinen E4,5, Gormley P1, Palotie A1, Mefford HC5, Scheffer IE8, De Jonghe P9, Helbig I2, EuroEPINOMICS RES CRP (1 Belgium, 2 Germany, 3 USA, 4 Finland, 5 Spain, 6 Switzerland, 7 Denmark, 8 Australia, 9 United Kingdom)

**p932** Autosomal dominant nocturnal frontal lobe epilepsy confirmed genetically in ten patients

Hanakova P, Kuba R, Chovancíková M, Fajkusová L, Ošlejšková H (Czech Republic)

**p933** Evidence pointing to failure in neuralglial differentiation in focal cortical dysplasia (FCD) type II

Avansini SH1, Torres FR2, Dogini DB3, Rogério F, Coan AC, Secolin R, Queiroz LS, Oliveira EPL, Tedeschi H, Cendes F, Lopes-Cendes I (Brazil)

**p934** Epilepsy-aphasia spectrum disorders are caused by mutations in GRIN2A

Carvill GL1, Regan BM5, Yendle SC1, O’Roak BJ1, Khan A1, Cook J1, Sadleir LG1, Turner SJ1, Tsai M-H1, Webster R1, Ouvrier R1, Damiano J1, Berkovic SF1, Shendure J1, Hildebrand M1, Scheffer IE1, Mefford HC1 (1 USA, 2 Australia, 3 New Zealand)

**p935** Treatment outcome of genetic 7p21.3 deletion with EEG abnormalities and autism phenotype in a 5-year old male

Chez M, Lepage C, Caffery S (USA)

**p936** Whole exome sequencing identifies the novel gene (Myoclonin 4) in childhood absence epilepsy with eyelid myoclonia evolving to juvenile myoclonic epilepsy

Tanaka M1, Bailey JN1, Alonso ME2, Martinez-Juarez P1, Ochoa A2, Jara-Prado A2, Medina MO, Duron R3, Bai D1, Ferreira-Guilhoto LM4, Yacubian EM4, Delgado-Escueta AV1 (1 USA, 2 Mexico, 3 Honduras, 4 Brazil)

**p937** Identification of ATP1A3 mutations by exome sequencing as the cause of alternating hemiplegia of childhood in Japan


**p938** The clinical and genetic features of autosomal dominant lateral temporal lobe epilepsy in Italy


**p939** Single nucleotide polymorphisms in genes related to inflammation molecules in Mexican patients with drug-resistant epilepsy

Toral-Ríos D, Alonso-Vanegas M, Villeda-Hernández J, Campos-Peña V (Mexico)
p940 Investigating the role of microglial activation mediated by microRNA-124 in the pilocarpine epilepsy model
Matos AHB, Charret TS, Pascoal VDB, Vieira A, Gilioli R, Lopes-Cendes I (Brazil)

p941 Deep brain stimulation for the management of seizures in MECP2 duplication syndrome
Nascimento FA1,2, Faghfoury H1, Krings T1, Ali A2, Fridhandler JD2, Lozano A1, Wennberg R2, Andrade DM1 (Brazil, 2Canada)

p942 CLN6 mutations cause teenage-onset progressive myoclonus epilepsy
Andrade DM1, Paton T1, Turnball J1, Klein C1, Marshall CR1, Scherer SW1, Minassian BA1 (Canada, Germany)

p943 Dravet syndrome: seizure control and gait in adults with different SCN1A mutations
Rilestone J1, Coelho FM1,2, Minassian BA1, Andrade DM1 (Canada, Brazil)

p944 Mesial temporal lobe epilepsy and serotonin: the role of HTR2A receptor
Chaves J1, Leal B1, Carvalho C1, Bettencourt A1, Bras S1, Barreira A1, Boleixa D1, Martins da Silva A1, Costa PP1, Martins da Silva B1 (Portugal)

p945 Hemimegalencephaly: adult evolution
Wu N1, Ali A1, Krings T1, Andrade DM1 (Canada)

p946 Aicardi syndrome: long-term evolution
Ali A1, Wu N1, Andrade DM1 (Canada)

p947 Extending the spectrum of KCNQ2 encephalopathy: description of 11 additional patients
Weckhuysen S1,2, Ivanovic V1, Hendrickx R1, Van Coster R1, Hjalgrim H1, Møller RS1, Grønborg S1, Schoonjans A-S1, Ceulemans B1, Heavin S1, Elze C1, Horvath R1, Pisano T1, Casara G1, Crompton DE5, Giordano L1, Guerrini R1, Angriman M1, Scheffer I1, Striano P1, Marin C1, Suls A1, De Jonghe P1, EuroEPINOMICS RES CRP (1Belgium, 2Netherlands, 3Croatia, 4Denmark, 5Australia, 6United Kingdom, 7Italy)

p948 Nocturnal frontal lobe epilepsy (NFLE): clinical and genetic characterization of a large cohort
Bisulli E1, Licchetta L1, Berkovic S2, Marini C1, Heron S2, Dibbens L2, Naldi I1, Di Vito L1, Conti V1, Giuseppe P1, Provini F1, Tinuper P1 (Italy, Australia)

p949 APOE isoforms in focal epilepsies: an association study in a Portuguese population
Martins da Silva A1, Leal B1, Chaves J1, Carvalho C1, Bettencourt A1, Branco RC1, Ferreira J1, Costa PP1, Martins da Silva B1 (Portugal)

p950 The role of SCL2A1 in myoclonic astatic epilepsy and severe absence epilepsy with variable onset
Møller RS1, Larsen J1, von Spiczak S2, Neubauer BA2, Kleiss R2, Muhle H2, Nikanorova M1, Jepsen B1, Tommerup N1, Stephani U2, Helbig I1, Hjalgrim H1 (1Denmark, 2Germany)
Extending the phenotypic spectrum associated with PCDH19 mutations: description of six affected females
Hjalgrim H¹, Nikanorova M¹, Nielsen JEK¹, Søndergård M¹, Dibbens LM², Scheffer IE³, Møller RS¹
¹Denmark, ²Australia

Epilepsy associated with rare chromosomal abnormalities

Clinical and genetic aspects in children with Dravet syndrome. Romanian experience of 3 years of research
Craiu D¹, Budisteanu M¹, Dica A¹, Barca D¹, Iliescu C¹, Motoescu C¹, Tarta-Arsene O¹, Bacos C¹, Vintan M¹, Deconinck T², Arvid S², Weckhuisen S², De Jonghe P², Barbarii L¹, Iancu D¹, Iancu B¹, Minciu I¹, Burloiu C¹, Butoianu N¹, Leanca M¹, Anghelescu C¹, Sandu C¹, Neagu E¹, Moisa G¹, Cardas R¹, Costea R¹, Huniadi D¹, Romanian Research Group for Rare Genetic Epilepsies, Romanian Epilepsy Network, RES Consortium EuroEpinomics [¹Romania, ²Belgium]

Polymorphisms in genes of TAU protein, GSK3 and Hsp70, as potential markers of risk in the development of temporal lobe epilepsy and mesial sclerosis

Clinical phenotypes, epilepsy and genetics in a cohort of 52 patients with non syndromic and syndromic polymicrogyria
Amrom DR¹, Michaud J¹, Mitchell G¹, Lemyre E¹, Poduri A², Partlow J¹, Ganesh V¹, Dan B¹, Kuchukhidze G¹, Unterberger I¹, Trinka E¹, Deconinck N², Christophe C³, Pichon B³, Heshmati Moghaddam M¹, Dubeau F¹, Tampieri D¹, Décarie J-C¹, Dobyns WB², Walsh CA¹, Andermann F¹, Andermann E¹ [¹Canada, ²USA, ³Belgium, ⁴Austria]

Epilepsy associated with rare chromosomal abnormalities

Clinical and genetic aspects in children with Dravet syndrome. Romanian experience of 3 years of research
Craiu D¹, Budisteanu M¹, Dica A¹, Barca D¹, Iliescu C¹, Motoescu C¹, Tarta-Arsene O¹, Bacos C¹, Vintan M¹, Deconinck T², Arvid S², Weckhuisen S², De Jonghe P², Barbarii L¹, Iancu D¹, Iancu B¹, Minciu I¹, Burloiu C¹, Butoianu N¹, Leanca M¹, Anghelescu C¹, Sandu C¹, Neagu E¹, Moisa G¹, Cardas R¹, Costea R¹, Huniadi D¹, Romanian Research Group for Rare Genetic Epilepsies, Romanian Epilepsy Network, RES Consortium EuroEpinomics [¹Romania, ²Belgium]

Some cases of juvenile myoclonic epilepsy are genetically related to progressive myoclonic epilepsy
Jaworski M, Wasslen Y (Canada)

QARS: a candidate gene in familial malignant migrating partial seizures of infancy
Barcia G¹, Ville D¹, Coppola G², Kaminska A¹, Nitschke P¹, Casanova JL³, Munnich A¹, Dulac O¹, Colleaux L¹, Nabbout R¹ [¹France, ²Italy, ³USA]

A novel heterozygous mutation in sodium channel subunit beta-1 (SCN1B) involved in generalized epilepsy with febrile seizures plus (GEFS+ patient
Zahoor MY, Waseem M (Pakistan)
WEDNESDAY 26TH JUNE
Poster session: Neuroimaging B

p959 In vivo and ex vivo MR relaxometry changes in TLE are associated with tissue astrogliosis
Peixoto-Santos JE, Velasco TR, Assirati JA, Carlotti CG, Scanduzzi RC, Salmon CEG, Santos AC, Leite JP (Brazil)

p960 A resting state fMRI study in non-lesional epilepsy patients
Fu X (China)

p961 Hippocampal subfield segmentation on sub-millimetric MRI at 3 Tesla
Kulaqa-Yoskovitz J, Bernasconi N (Canada)

p962 Intermittent light stimulation-dependent CBF changes in photosensitive and control baboon
Salinas FS, Szabó CÁ, Franklin C, Leland MM, Fox PT, Narayana S (USA)

p963 Voxel-based morphometry analysis in partial epilepsy: significance of thalamic involvement in medial temporal lobe epilepsy
Kim SE, Hwang TG (Korea, Republic of)

p964 To what extent is incomplete hippocampal inversion related to epilepsy?
Sasso E, Mutti C, Delaj L, Cerasti D, Florindo I, Crisi G (Italy)

p965 Reliability of fMRI test-retest findings during verbal and nonverbal learning in healthy subjects
Sodums D1, Jones-Gotman M1, Banks SJ2, Sziklas V1 (1Canada, 2USA)

p966 Functional Near Infrared Spectroscopy-EEG study of interictal spikes

p967 Occurrence of epileptic seizures after the administration of iv contrast media in neuroimaging
Papaliagkas V, Kazis DA, Lialias I, Vlaikidis N (Greece)

p968 Development of tools for brain mapping of eloquent cortex: data from healthy subjects and patients with epilepsy
Moulton E, Mok K, Chen J-K, Hall J, Olivier A, Klein D (Canada)

p969 Asymmetry of planum temporale predicts language lateralization in children with left-sided symptomatic focal epilepsy
Pahs G1, Rankin P2, Cross JH2, Croft L1, Vargha-Khadem F2, Baldeweg T1 (1Austria, 2United Kingdom)

p970 Retrospective quantitative analysis of MRI from nonlesional epilepsy surgery candidates

p971 Comparison of two normalization methods of epilepsy patients MRI after surgery
Shida CS, Santos ACD, Salmon CEG, Leite JP, Ide JS (Brazil)

p972 Surface-based mapping of local structure-function relationships in temporal lobe epilepsy
Bernhardt BC1,2, Bernasconi N1 (1Canada, 2Germany)
p973 Brain functional modularity in temporal lobe epilepsy
Laufs H, Rodionov R, Brodbeck V, Thornton R, Duncan JS, Lemieux L, Tagliazucchi E (Germany, United Kingdom)

p974 Methodological procedure to identify anatomical location of depth electrodes in the clinical evaluation of epilepsy surgery candidates based on open source software
Prinich J, Wassermann D, Kochen S (Argentina, USA)

p975 The dorsal hippocampal commissure in temporal lobe epilepsy
Becerra Zegarra A, Khan A, De Ribauipierre S, Burneo J, Terry P, Steven D (Canada)

p976 Reorganisation of memory circuits in temporal lobe epilepsy (TLE) demonstrated on pre-and postoperative functional MRI study: right TLE does better

p977 Graph analysis of resting state fMRI data reveals reduced connectivity from bilateral phonological analysis regions and right inferior frontal gyrus in focal epilepsy patients with reading difficulties
Tailby C, Jackson GD (Australia)

p978 Regional differences in thalamic involvement in Lennox Gastaut syndrome
Archer J, Warren A, Abbott DF, Masterton R, Jackson G (Australia)

p979 Automatic dissection and structural connectivity of the limbic system
Lacerda L, Dell’Acqua F, Manta R, Gonçalves-Pereira P, Henriques R, Andrade A, Nunes R, Ferreira H (Portugal, United Kingdom)

p980 Magnetization transfer ratio can lateralize hippocampal sclerosis
Santos AC, Diniz PRB, Salmon CEG, Escorsi-Rosset SR, Velasco TR, Leite JP, Sakamoto AC (Brazil)

p981 Comparative study of 4-ExSo-MUSIC, s(w)LORETA, and MUSIC performances for distributed EEG source localization (ESL)
Birot G, Albera L, Nica A, Biraben A, Wendling F, Merlet I (France)

p982 Focal cortical dysplasia: MRI and histopathology of 83 cases
Santos AC, Simao GN, Velasco TR, Ozaki JTR, Escorsi-Rosset SR, Pittella JEH, Serafini LN, Sakamoto AC (Brazil)

p983 Motor system hyper-excitability in siblings of patients with juvenile myoclonic epilepsy
Wandschneider B, Centeno M, Vollmar C, Symms M, Thompson P, Duncan JS, Koepp MJ (United Kingdom)

p984 Mapping and volumetry of Heschl’s gyrus by voxel based morphometry aids in planning temporal lobe resection in patients with “TLE with auditory aura”
Radhakrishnan A, James JS, Madhusoodanan M, Thomas B, Kesavadas C, Abraham M, Radhakrishnan K (India)
p985  Tractography-based cortical clustering
Besson P, Carrière N, Leclerc X, Derambure P, Tyvaert L (France)

p986  Mapping fiber density on subcortical structure surface models
Besson P, Carrière N, Leclerc X, Derambure P, Tyvaert L (France)

p987  Contribution of magnetic resonance imaging in research of etiology of epilepsy
Abed A, Ba S, Seck LB, Ouldmoamalediene S, Diop AN, Diop AD, Niang E (Senegal)

p988  Diffuse gray matter atrophy differs in right and left mesial temporal lobe epilepsy
Oliveira MC, Coan AC, Campos B, Yasuda CL, Cendes F (Brazil)

p989  In vivo metabolic glutamate receptor type 5 (mGluR5) abnormalities in patients with periventricular heterotopia
Dubois J, Rowley J, Rosa-Neto P, Kobayashi E (Canada)

p990  T2 hypersignal in patients with mesial temporal lobe epilepsy with and without hippocampal sclerosis
Kubota BY, Coan AC, Cendes F (Brazil)

p991  Finding the occult: surface-based morphometry and machine learning aids in the detection of "MRI-negative" focal cortical dysplasia

p992  White matter integrity in TLE patients with and without family history of epilepsy
Yasuda C1, Beltramini GC1, Liu M1, Campos BM1, Morita ME1, Coan AC1, Araujo PV1, Lopes-Cendes I1, Cendes F1, Beaulieu C1, Gross DW2
(1Brazil, 2Canada)

p993  Evaluation of effective connectivity of language network in patients with temporal lobe epilepsy

p994  Regional and functional connectivity alterations in temporal lobe epilepsy after surgery: a longitudinal resting-state fMRI study

p995  Value of automated cortical thickness analysis in detection of occult epileptogenic lesions in MRI of patients with nonlesional refractory insular cortex epilepsy (NLRICE)

p996  Progressing the White matter changes associated with surgery on temporal lobe epilepsy

p997  Resting state functional connectivity predicts post-surgical cognitive outcome in anterior temporal lobectomy patients
Winstanley FS, Arora J, Komondoros S, Kamzik JS, Spencer DD, Constable RT (USA)
**WEDNESDAY 26TH JUNE**

**Poster session: Neuropathology**

**p998**
Astrocytic P2Y receptors: contribution to epileptogenesis

**p999**
Expression of HMGB1 and Toll-like receptors in the hippocampus of human intractable temporal lobe epilepsy
Nakajima M, Sugano H, Higo T, limura Y, Arai H (Japan)

**p1000**
First autopsy report of a patient with acute encephalitis with refractory, repetitive partial seizures

**p1001**
Maldistribution of interneuron between cortex and basal ganglia in focal cortical dysplasia: consideration of epileptogenesis

**p1002**
Precocious and delayed neocortical synaptogenesis in fetal holoprosencephaly
Sarnat HB, Flores-Sarnat L (Canada)

**p1003**
Low hippocampal GABA concentration in the epileptic rat brain precedes the onset of spontaneous seizures in the pilocarpine model of TLE

**p1004**
Human herpesvirus-7 (HHV-7) in brain tissues from adults with intractable epilepsy: a pathological role in some cases of hippocampal sclerosis?
Li J-M, Huang C, Zhou D (China)

**p1005**
Increased oligodendroglial like cells correlates with intractable focal epilepsy in children
Sakuma S, Halliday WC, Ochi A, Otsubo H (Canada)

**p1006**
Role of inflammation on gene expression in a murine mouse model of Temporal Lobe Epilepsy
Genovesi S, Cerri C, Caleo M, Bozzi Y (Italy)

**p1007**
Cell injury and premature neurodegeneration in focal malformations of cortical development

**p1008**
Proliferative oligodendroglial hyperplasia in epilepsy (POGHE): a novel diagnostic entity
Coras R1, Schurr J1, Pieper T1, Kudernatsch M1, Holthausen H1, van Landeghem F1, Grunwald T2, Fischer I1, Rössler K1, Hamer H1, Blümcke I1 (1Germany, 2Switzerland)
p1009  Association between human herpes virus 6B and apolipoprotein E4 in patients with refractory mesial temporal lobe epilepsy
Huang C, Li J, Si Y, Zhou D (China)

p1010  Hippocampal histopathology in a kindling refractory epilepsy Sprague-Dawley rat model induced by Coriaria Lactone
Li Y, Zeng T, Chen L, Zhou D (China)

p1011  Lafora bodies type II: origin and potential functional significance. Observations made in a K-0 laforin-deficient mice model
Machado-Salas J1, Avila-Costa MR2, Tanaka M1, Bai D1, Duron R1, Yamakawa K2, Delgado-Escueta A1
(1USA, 2Mexico, 3Japan)

p1012  Chronic low-level viral replication in refractory epilepsy following Herpes simplex virus encephalitis
Howell KB, Katanyuwong K, Mackay MT, Bailey CA, Chow CW, Cook MJ, Harvey AS (Australia)

p1013  Angiocentric gliomas are characterized by unmethylated MGMT-promoter and do not harbor BRAF or IDH1/2 mutations
Capper D1, Felsberg J1, Hainfellner J1, Pannek HW1, Preusser M2, Hans VH3
(1 Germany, 2 Austria)

p1014  The neuropathological basis of polymicrogyria
Jansen AC1, Robitaile Y2, Honavar M3, Mullatti N3, Andermann E2, Andermann F3, Squier W3 (1 Belgium, 2Canada, 3 United Kingdom)
**WEDNESDAY 26TH JUNE**

**Poster session: Neuropsychology B**

**p1015** Adaptive independence difficulties in children with intractable epilepsy on the scales of independent behavior - revised (SIB-R)
Kerr EN, Blackwell M (Canada)

**p1016** Abstract verbal learning using visual or auditory administration: does modality matter?
Crane J, Berthiaume C, Sziklas V (Canada)

**p1017** Memory and cognition 20-plus years after surgical treatment of temporal lobe epilepsy
Jones-Gotman M¹, Banks S² (Canada, USA)

**p1018** Improving the readiness of epilepsy surgery candidates during electrical stimulation through invasive EEG

**p1019** Clinical utility of the Leonard Tapping Test in epilepsy patients
Crane J, Sziklas V, Leonard G (Canada)

**p1020** Frontal lobe dysfunction in chronic mesial temporal lobe epilepsy in patients of tertiary care centre of South Indian population
Turaga SP, Nemali HL, Sirineni D (India)

**p1021** The relationship between nuclear medicine examinations and the results of pre- and postoperative evaluation of neuropsychological tests in patients with medial temporal epilepsy on non-dominant hemisphere for memory

**p1022** An exploratory qualitative analysis of the psychological processes underlying non-epileptic seizures
Macleod LK, Montague A, McIntosh AM, Scheffer IE, Berkovic SF, Wilson SJ (Australia)

**p1023** Lack of concordance between dichotic listening and Wada test in evaluation of language lateralization
Gramstad A, Engelsen BA (Norway)

**p1024** Correlation between cognitive complaint, quality of life and cognitive assessment in patients with epilepsy
Pereira de Silva NF, Medel N, Solis P, Kochen SS, Saidon P (Argentina)

**p1025** Jeavons Syndrome: variability of cognitive function in Covans group five of eyelid myoclonia with juvenile myoclonic epilepsy
Carvalho KC, Tudesco ISS, Conceição PO, Uchida C, Yacubian EM (Brazil)
p1026  Short term memory deficits are accountable for modality-specific cognitive impairments following hippocampal sclerosis in epileptic patients
Schmidt CS1,2, Gallagher A1, Sauerwein HC1, Carmant L1, Lepore F1, Lassonde M1
(1Canada, 2Netherlands)

p1027  Mindfulness-based psychological treatment and social support intervention for drug-resistant epilepsy: a randomized, assessor-blinded, controlled trial
Tang V1, Kwan P1,2, Poon WS1
(1Hong Kong, 2Australia)

p1028  Effect of epileptic seizures on the function of speech and writing in children and their medical treatment

p1029  Predicting long-term neuropsychological outcome of late-onset Rasmussen Encephalitis (RE) in children treated via left hemispherectomy: a case in point
Snyder TJ, Sinclair DB, Wheatley BM, Tang-Wai R, Pugh J, Edgerton J, Jurasek L (Canada)

p1030  Neuropsychological evaluation of patients with familial cortical tremor and epilepsy
Yu P, Zhu G, Ding D, Tang X, Shi Y, Hong Z (China)

p1031  Assessment of syntactic and semantic sentences comprehension in children with Rolandic epilepsy and investigation of cognitive and behavioral aspects
Malfait D, Tucholka A, Lortie A, Carmant L, Major P, Lippé S (Canada)

p1032  Rey complex figure test: comparison between a traditional scoring system and a qualitative scoring system on memory assessment after temporal left and right lobectomy
Jamus D, Mäder-Joaquim MJ, Souza L, De Paola L, Silvado CE (Brazil)

p1033  Quality of life outcome across years after anterior temporal lobectomy for drug resistant temporal lobe epilepsy
Alexander A, Radhakrishnan A, Varma R, Radhakrishnan K (India)

p1034  Working memory performance in temporal lobe epilepsy patients after corticoamygdalohippocampectomy
Tudesco ISS, Pompeia S, Centeno RS, Yacubian EMT, Bueno OFA (Brazil)

p1035  Children with a history of atypical febrile seizures show abnormal steady-state visual evoked potentials
Sheppard E, Birca A, Lassonde M, Lippé S (Canada)

p1036  Autobiographical memory in drug resistant epilepsy patients
Munera CP, Lomlomdjian C, Solis P, Medel N, Terpiluk V, Valeriano L, Kochen S (Argentina)
p1037 Memory and language outcome in preserved patients submitted to surgical treatment
Gaça LB, Comper SM, Tudesco ISS, Noffs MHS, Centeno RS, Marinho MM, Caboclo LOSF, Yacubian EMT, Bueno OFA (Brazil)

p1038 Duration of epilepsy versus age at surgery in predicting post-operative cognitive outcome
Adams EN, Ritter FJ, Opperman CL (USA)

p1039 Comparative study of quality of life of male and female epileptic patients receiving treatment in The General Hospital San Juan de Dios, Guatemala
Stokes Brown HB (Guatemala)

p1040 Resting state functional connectivity and executive functioning in temporal lobe epilepsy patients
Haynes-Robinson TS1,2, Komondoros S1, Kamzik J1, Arora J1, Winstanley FS1, Spencer DD1, Constable RT1 (1USA, 2Jamaica)

p1041 Subjective prospective and retrospective memory failures of epilepsy patients: preliminary questionnaire study
Kim KK (Korea, Republic of)
WEDNESDAY 26TH JUNE
Poster session: Paediatric epileptology C

p1042 Low-dose versus high-dose ACTH therapy in patients with West syndrome
Horák O, Ošléjšková H, Ryzí M (Czech Republic)

p1043 Long-term video-EEG monitoring for evaluation of paroxysmal events in children
Krajnc N (Slovenia)

p1044 Seizures and mental disorders in patients with tuberous sclerosis complex
Belacevic MM, Babic M, Jovic NJ, Karaklic D (Serbia)

p1045 Sleep disorders and melatonin system in children with epilepsy
Praninskiene R1, Jucaite A2 (1Lithuania, 2Sweden)

p1046 Methylprednisolone for the treatment of children with refractory epilepsy
Judickiene A, Praninskiene R (Lithuania)

p1047 Sensory modulation dysfunction in childhood-onset generalized epilepsy
Shahar E, Zlotnik S, Ravid S, Engel-Yeger B (Israel)

p1048 Absence seizures from the perspective of children and adolescents with this condition
Figueroa-Duarte AS, Campbell-Araujo OA (Mexico)

p1049 Efficacy and safety of intravenous lacosamide in children: a pilot evaluation in eight children with refractory non-convulsive status epilepticus/seizure clusters
Smeyers PM (Spain)

p1050 The comorbidity of attention deficit hyperactivity disorder in children with epilepsy
Kim W-S, Sim GY, Son J-W (Korea, Republic of)

p1051 Bilateral insular epilepsy
Ostrowsky-Coste K1, Montavont A1, Guenot M1, Gil-Nagel A2, Cohen A3, Ryvlin P1 (1France, 2Spain, 3Netherlands)

p1052 Hemifacial paroxysmal events related to a hamartoma of the IVth ventricle: a drug-resistant entity that can be a candidate to surgery
De Palma L1,2, Panagiotakaki E1, Ramírez-Camacho A1, Blauwblomme T1, Bourgeois M1, Sainte-Rose C1, Arzimanoglou A1 (1France, 2Italy)

p1053 Intravenous levetiracetam in children with status epilepticus: experience from a children’s hospital in Turkey
Isguder R, Guzel O, Agın H, Karaarslan U, Akarcan SE (Turkey)

p1054 Heterogenous spectrum of Epileptic syndrome with electrical status epilepticus during sleep. Experiences with 20 cases
Ouhabi H, Satte A, Mounach J, Zerhouni A, Ouahmane Y (Morocco)

p1055 What makes the amygdala talk? EEG in acute emotional distress
Ravnik IM, Verdenik M, Krko V, Grmek M, Peari N (Slovenia)

p1056 Severe hypoglycemia in juvenile diabetic rats: presence and severity of seizures predictive for mortality
Impaired sleep quality in epileptic children and implication of antiepileptic drugs
Azabou E, Cheliout-Herault F, Racaru V, Essid N, Pinard J-M (France)

Epilepsy in children with mitochondrial diseases: diagnostic and treatment features. Clinical case of MELAS-syndrome
Myrzaliyeva B (Kazakhstan)

Developmental outcome in children with infantile spasms after treatment with Adrenocorticotropic hormone: effect of demographic and seizure related variables - does seizure control imply a better developmental outcome?
Thota AS, Malhi P, Singh P (India)

Jeavons Syndrome - seizing the light
Tuxhorn IE, Abdul Rhaman M, Franco S (USA)

Efficiency of ethosuximide in the treatment of benign epileptiform discharges of childhood (BEDC) in EEG in children with focal forms of epilepsy
Sivkova S, Mukhin K, Zaykiva F (Russian Federation)

Efficacy and safety of felbamate in children with refractory epilepsy
Heyman E, Levin N, Epstein O, Lahat E, Gandelman-Marton R (Israel)

Epilepsy characteristics in patients with type 1 diabetes mellitus
Ramirez-Camacho A, Bendelac N, De Bellescize J, Arzimanoglou A (France)

Epilepsy and PCDH19 mutation: electrophysiological features

Primary hypomagnesaemia with seizures in neonates
Toffa DH, Fogang Y, Mbonda PCC, Ndiaye M, Gueye L, Diop AG (Senegal)

The temporal lobe in West syndrome (WS) shows aberrant structural remodelling and is functionally impaired: electrophysiological and quantitative magnetic resonance imaging evidence
Fosi T, Boyd S, De Haan M, Clark CA, Scott RC, Neville BG (United Kingdom)

Preliminary report on treatment response to anti epileptic drugs in childhood epilepsies

Comparative assessment of families experience of patients with Dravet syndrome on the use of rectal valium and oral midazolam
Coqué N, Chemaly N, Nabbout R (France)

Risk factors associated with a poor response to the first-line treatment in neonatal seizures: case-control study
Penagos Vargas NE, Forero Sanchez EF, Usategui Daccarett AM, Espitia Segura OM, Benitez Ramirez DC, Ramirez Rodriguez SM, Vargas Niño AC, Izquierdo Bello AH (Colombia)
p1070 Use of new antiepileptic drugs for the treatment of neonatal seizures

p1071 Cessation of farmacoresistant early epileptic encephalopathy with the use of ketogenic diet
Pazo CA, Omaña I, Contreras G, Sosa B (Venezuela)

p1072 Network analysis of generalized spike-and-wave discharges occurring in both animal models as well as in children

p1073 Refractory newly diagnosed epilepsy in children during 2011: a Chilean multicentric study
Andrade L, Acevedo K, Aránguiz JL, Venegas V, Cuadra L, Jeldres E, Bustos A, Jorge R (Chile)

p1074 Use of IVIG in Dravet syndrome: report of two cases
Nguyen The Tich S, Pellier I, Savagner C, García M, Chemally N, Nabbout R (France)

p1075 FDG-PET/CT with EEG recording in children with frequent daily seizures
Rener-Primec Z, Grmek M, Perkovi-Benedik M, Kržan M (Slovenia)

p1076 Quality of life in Childhood Epilepsy Questionnaire: factor structure and predictors in newly diagnosed children
Goodwin SW, Lambrinos Al, Ferro MA, Speechley KN (Canada)

p1077 Myoclonic absence in patients with distinct pathology
Ikeda H, Imai K, Ikeda H, Shigematsu H, Takahashi Y, Inoue Y (Japan)

p1078 Classification of epilepsy by etiology, semiology and complexity level in children. Annual series study 2011 in Instituto de Salud del Niño del Perú (INSN)
Caro-Kahn I (Peru)

p1079 Parry-Romberg syndrome associated with epilepsy: a case report
Zahlane S, Kissani N (Morocco)

p1080 Diazepam useful in ESES treatment
El-Hagrassy MM, Eksioglu Y (USA)

p1081 Influence of CYP1A1, CYP2C9, CYP2C19, CYP2D6, GSTM1, GSTT1, NAT2 genotypes on side effects developing in children with epilepsy receiving valproic acid
Globa O, Averianova NS, Andreenko NV, Podkletnova TV, Kuzenkova LM, Pinelis VG (Russian Federation)

p1082 The clinical course of seizure control in PCDH19 mutation related epilepsy
Sugai M, Matsuoka T, Hiyane M, Matsuoka T, Higurashi N, Hirose S, Ohfu M (Japan)

p1083 Effectiveness of valproate on Alice in wonderland syndrome associated with Panayiotopoulos syndrome
Ohfu M, Sugai M, Matsuoka T, Hiyane M, Matsuoka T (Japan)
WEDNESDAY 26TH JUNE
Late breaking posters

LBP1117 Admission to a seizure monitoring unit reduces health care utilization in patients with epilepsy in a large health region
Lowerison M, Jette N, Sauro K, Macrodimitris S, Dean S, De Coster C, Wiebe S [Canada]

LBP1118 Zonisamide monotherapy in adult patients with partial, generalised and combined seizures: interim analysis of an open label, non comparative, observational study

LBP1119 Adult onset seizure disorder associated with anti voltage-gated potassium channel antibody in China: a case report

LBP1120 Assessment and outcome of status epilepticus in elderly patients admitted at the Neurology Intensive Care Unit in First MHAT-Sofia, Bulgaria
Maslarov D [Bulgaria]

LBP1121 Trigeminal nerve stimulation (eTNS™) for epilepsy: long term followup at 3 and 6months after completion of the phase II randomized trial
DeGiorgio CM, Soss J, Markovic D, Keley C, Heck C [USA]

LBP1122 Pulling bed linen up during seizures: an exploratory analysis of its semiological value
Rocha H, Rego R [Portugal]

LBP1123 Case with isolated vertigo attacks and temporal lobe arachnoid cyst: is it epilepsy?
Genç E, Apaydin Dogan E, Genç BO [Turkey]

LBP1124 Circadian patterns of seizures in adults with focal refractory epilepsy

LBP1125 Disturbed vascular response during status epilepticus: a possible role for blood-brain barrier dysfunction
Prager O1, Schoknecht K2, Chassidim Y1, Kamintsky L1, Dreier JP1, Friedman A1
[1Israel, 2Germany]

LBP1126 Opposite effects of anti-seizure and pro-seizure drugs on IL-1 and TNF- mRNA expression in the hippocampus
Gómez CD, Buijs RM, Sitges M [Mexico]

LBP1127 Sertraline inhibits pre-synaptic Na+ channel-mediated responses in hippocampus isolated nerve endings
Aldana Bl, Sitges M [Mexico]

LBP1128 Seizure-related genomic DNA methylation changes in chronic rat TLE
Kobow K1, Kaspi A2, Harikrishnan KN1, Kiese K1, Ziemann M2, Khurana P1, Fritzsche I1, Hauke J1, Hahnen E1, Coras R1, Mühlebner A3, El-Osta A, Blümcke I1[1Germany, 2Australia, 3Austria]
LBP1129 Human iPS cells in hyperexcitable hippocampal tissue

Andersson MS1, Avaliani N1, Toft-Sorensen A1, Ledri M1, Koch P1, Brüstle O2, Deisseroth K2, Kokaia M1 (1Sweden, 2Germany, 1USA)

LBP1130 Preventing injury-induced epilepsy by attenuating astrocytic TGF- β signaling Bar-Klein G1, Cacheaux LP2, Kaufer D3, Friedman A1 (1Israel, 2USA)

LBP1131 Is focal polymorphic delta slowing a pathological form of focal sleep? A modeling study

Boro A (USA)

LBP1132 Treatment of symptomatic epilepsy by transplantation of autologous mesenchymal

Mahrov M, Hlebokazov F, Dakukina T, Misyuk N, Korolevich P, Marchuk S (Belarus)

LBP1133 Effects of kindling stimulations on tyrosine hydroxylase immunoreactivity in substantia nigra pars reticulata of GAERS and Wistar rats

Gulcebi M1, Akman O2, Carcak N1, Eryigit T1, Onat F1 (1Turkey, 2USA)

LBP1134 The anticonvulsant triheptanoin shows anaplerotic activity in the pilocarpine model of temporal lobe epilepsy in mice

Smeland OB1, Hadera M1, McDonald T2, Sonnewald U1, Borges K2 (1Norway, 2Australia)

LBP1135 Exposure to caffeine during pregnancy increases network excitability and seizure susceptibility in offspring

Fazeli W1, Ghestem A1, Cunha R1, Esclapez M2, Istbrandt D1, Bernard C1 (1Canada, 2France, 3USA)

LBP1136 Anticonvulsant effects of a new germanium (IV) xylarate complexe with potassium to acute seizure models in mice

Varbanets O1, Godovan VV, Kresyun VY (Ukraine)

LBP1137 Activation clinic as a prior step to telemetry

Agirre-Arrizubieta Z, Moran N (United Kingdom)

LBP1138 Clinical significance of non-habitual seizures during intracranial EEG monitoring

Kovac S, Rodionov R, Chinnasami S, Wehner T, Scott CA, Miserocchi A, McEvoy AW, Diehl B (United Kingdom)

LBP1139 Fron-to-parietal functional interhemispheric interactions in patients with epilepsy

Selitskii GV, Sorokina ND (Russian Federation)

LBP1140 Classification of high-frequency oscillations in search of a preictal state

Malinowska U, Bergey GK, Cervenka MC, Joupy CC (USA)

LBP1141 A low-cost and robust photogrammetry method for determining electrode positions

von Ellenrieder N, Beltrachini L, Blenkmann A, Fernandez-Corazza M, Kochen S, Muravchik CH (Argentina)

LBP1142 YouTube and seizures: can we really make an online diagnosis?

Brna PM1, Dooley JM1, Esser MJ1, Perry MS2, Gordon KE1 (1Canada, 2USA)
LBP1143  Single pulse electrical stimulation and surgical outcome in a series of 86 patients
Sanchez-Sanchez V, Valentin A, Selway R, Alarcon G
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LBP1144  A critical review of epilepsy surgery across two decades
Jezi L¹, Friedman D¹, Carlson C¹, Cascino G¹, Dewar S¹, Elger C², Engel, Jr J¹, Knowlton R¹,
Kuzniecky R¹, McIntosh A³, O'Brien T¹, Spencer D¹, Sperling M¹, Worrell G¹, French J¹
¹(USA, ²Germany, ³Australia)

LBP1145  Lesionectomy of the contralateral epileptogenic focus may help epilepsy control
Mahmoud AA, Alghamdi FA
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LBP1146  Seizure outcome following posterior quadrant epilepsy surgery in correlation with neuroimaging and histopathology studies in Arabia
AL Tawari A, Baz S, AL Thubaiti I, AL Otaibi F, AL Dhalaan H, AL Semari A (Saudi Arabia)

LBP1147  Cognitive and behavioral findings in pre- and post-surgical children with hypothalamic hamartoma
Cappelletti S, Specchio N, Gentile S, Fusco L, Marras CE, Delalande O, Vigevano F (Italy)

LBP1148  Use of MRI guided laser ablation of epileptic focus in paediatric patients with intractable epilepsy: the SUNY Upstate preliminary experience
Tovar Spinoza ZS, Carter DA, Eksioglu Y, Huckins S
(United States)

LBP1149  Is a mini-craniotomy for temporal lobe epilepsy surgery safe and useful?
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LBP1150  Temporal lobotomy vs. lobectomy for temporal lobe epilepsy
(Saudi Arabia)
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<td>June 24</td>
<td>07:30</td>
<td>Hall 5</td>
<td>Speaker</td>
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<tr>
<td>Stefan H (Germany)</td>
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<td>June 27</td>
<td>07:30</td>
<td>Hall 6</td>
<td>Speaker</td>
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<tr>
<td>Steinhäuser C (Germany)</td>
<td>Special symposium</td>
<td>June 23</td>
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<tr>
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<td>18:00</td>
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<tr>
<td>Steve T (Canada)</td>
<td>Meet the experts</td>
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<tr>
<td>Swann J (USA)</td>
<td>Parallel session</td>
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<tr>
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<tr>
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<tr>
<td>Tellez-Zenteno J (Canada)</td>
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<td>16:30</td>
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<td>Theodore WH (USA)</td>
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<td>Wilson S (Australia)</td>
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30th International Epilepsy Congress

SPONSORS

The 30th International Epilepsy Congress acknowledges the support of the following companies:

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Driven by science.

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SCIENTIFIC EXHIBITS

Sponsored Scientific Exhibits of posters will take place at the following times:

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### EXHIBITOR LIST

#### EXHIBITION OPENING HOURS

- **Monday 24th June**: 09:00 – 17:00
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- **Wednesday 26th June**: 09:00 – 17:00
- **Thursday 27th June**: 09:00 – 12:00

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Eisai is hosting a Perampanel Scientific Exchange Room

Tuesday, June 25, 2013
8:00 AM – 1:00 PM
Palais des congrès de Montréal
Room 515

This event is open to health care professionals only
13th European Conference on
Epilepsy & Society
Ljubljana, Slovenia
28th - 30th August 2013

www.epilepsyandsociety.org

10th Asian & Oceania
Epilepsy Congress
Singapore 2014
24th - 27th August 2014
Singapore

www.epilepsysingapore2014.org
**PRESCRIBING INFORMATION**

Please refer to the SPC before prescribing.

**Presentation:** Film-coated tablets: 2 mg, 4 mg, 6 mg, 8 mg, 10 mg, 12 mg perampanel.

**Indication:** Adjunctive treatment of partial-onset seizures with or without secondarily generalised seizures in patients with epilepsy aged 12 years and older.

**Dose and administration:** Adults and Adolescents: Starting dose is 2 mg daily. Dose should be titrated based on clinical response and tolerability by increments of 2 mg/day to a maintenance dose of between 4 mg/day to 12 mg/day. Dose should be taken orally once daily before bedtime. Patients who are taking concomitant medicinal products that do not shorten the half-life of perampanel should be titrated no more frequently than at 2-week intervals. Patients who are taking concomitant medicinal products that shorten the half-life of perampanel should be titrated no more frequently than at 1-week intervals. Withdraw gradually.

**Elderly and patients with renal or hepatic impairment:** Dosage adjustments not required in elderly patients. Dosage adjustments not required in mild renal impairment, not recommended in patients with moderate or severe renal impairment or patients undergoing haemodialysis. Caution in mild or moderate hepatic impairment, titration should not be faster than every 2 weeks and maximum daily dosage not exceeding 8 mg. Not recommended in severe hepatic impairment.

**Children and adolescents under 12 years:** No data available.

**Contra-Indications:** Hypersensitivity to perampanel or any excipient.

**Pregnancy:** Not recommended.

**Lactation:** Unknown if excreted into breast milk. A decision whether to discontinue breastfeeding or to discontinue/abstain from Fycompa therapy taking into account the benefit of breastfeeding for the child and the benefit of therapy for the woman.

**Warnings and Precautions:** Monitor for signs of suicidal ideation and behaviours and consider appropriate treatment. Perampanel may cause dizziness and somnolence and therefore may influence the ability to drive or use machines. At doses of 12 mg/day, Fycompa may decrease the effectiveness of progestative-containing hormonal contraceptives. There appears to be an increased risk of falls, particularly in the elderly. Cases of aggression have been reported and dose titration should be followed; a dose reduction should be considered in case of persistence of aggressive symptoms. Caution should be exercised in patients with a history of substance abuse and the patient should be monitored for symptoms of perampanel abuse. Patients should be closely monitored for tolerability and clinical response when adding or removing cytochrome P450 inducers or inhibitors, or switching from concomitant non-inducer anti-epileptic medicinal products to enzyme inducing medicinal products and vice versa, since perampanel plasma levels can be decreased or increased; the dose of perampanel may need to be adjusted accordingly.

**Drug Interactions:** The possibility of decreased efficacy of progestative-containing oral contraceptives should be considered for women needing Fycompa 12 mg/day and an additional reliable method (intra-uterine device (IUD), condom) is to be used. Carbamazepine, phenytoin, oxcarbazepine and topiramate have been shown to increase perampanel clearance and consequently to decrease plasma concentrations of perampanel. Fycompa did not affect in a clinically relevant manner the clearance of clonazepam, levetiracetam, phenobarbital, phenytoin, topiramate, zonisamide, carbamazepine, clonazepam, lamotrigine and valproic acid. The effect of perampanel on monohydroxycarbazepine concentrations is not known. Fycompa (6 mg once daily for 20 days) decreased midazolam AUC by 13% in healthy subjects. Strong inducers of cytochrome P450, such as rifampicin and hypericum, are expected to decrease perampanel concentrations. Felbamate has been shown to decrease the concentrations of some drugs and may also reduce perampanel concentrations. Ketoconazole, a CYP3A4 inhibitor, increased perampanel AUC by 20% and prolonged perampanel half-life by 15%. Strong inhibitors of other cytochrome P450 isoforms could potentially also increase perampanel concentrations. Fycompa, used in combination with other central nervous system (CNS) depressants such as alcohol, can increase levels of anger, confusion, and depression. The effects of perampanel on tasks involving alertness and vigilance, such as driving ability, were additive or supra-additive to the effects of alcohol.

**Side effects:** Adverse reactions most commonly lead to discontinuation of perampanel were dizziness and somnolence. Refer to SPC for all side effects. Very common effects (≥1/10): dizziness, somnolence. Common effects (≥1/100, <1/10): decreased appetite, increased appetite, aggression, anger, anxiety, confusional state, ataxia, dysarthria, balance disorder, irritability, diplopia, vision blurred, vertigo, nausea, back pain, gait disturbance, fatigue, weight increased, falls. Based on the clinical trial database of 143 adolescents, the frequency, type, and severity of adverse reactions in adolescents are expected to be the same as in adults.
For the adjunctive treatment of partial-onset seizures...

FIGHT NEURONAL HYPEREXCITATION

New Fycompa†

- The first and only licensed postsynaptic AMPA* receptor antagonist
- Demonstrated efficacy across all partial-onset seizure types, including complex partial and secondarily generalised seizures
- Simple, once-daily oral dosing at bedtime

Adverse events: In clinical trials, adverse reactions occurring in ≥5% of total patients included dizziness (32%), somnolence (15%), fatigue (9%), irritability (8%), falls (6%), and nausea (6%).

Special Warnings and Precautions for use†:
Suicidal Ideation: A small risk of suicidal ideation and behaviour has been shown with antiepileptic medicines. The mechanism is not known, and the available data do not exclude the possibility of an increased risk for perampanel.
Nervous system disorders: Perampanel may cause dizziness and somnolence and therefore influence the ability to drive or operate machinery.
Falls: There appears to be an increased risk of falls, particularly in the elderly. The mechanism is not known.
Aggression: Cases have been reported with perampanel, with the frequency increasing at higher doses. Most cases were mild to moderate and recovered either spontaneously or with dose adjustment. Some reports of aggression were severe however, and led to discontinuation. Dose reduction should be considered in cases of persistent aggressive symptoms.

The information contained herein does not necessarily reflect the content of the approved Canadian product monograph. FYCOMPA (perampanel) is indicated in Canada as adjunctive therapy in the management of partial-onset seizures in adult patients with epilepsy who are not satisfactorily controlled with conventional therapy. For Canada-specific information on warnings and precautions, adverse reactions and dosing, please refer to the FYCOMPA product monograph.
Inspired by patients. Driven by science.