CONGRESS PROGRAMME

32ND INTERNATIONAL EPILEPSY CONGRESS

BARCELONA, SPAIN  2ND - 6TH SEPTEMBER 2017

www.epilepsybarcelona2017.org
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ACKNOWLEDGEMENTS

The Scientific and Organising Committee would like to thank the following people for their contribution towards the congress programme.

Educational Programme Committee

Coordinator
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Members
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Çigdem Ozkara (Turkey)
Marco De Curtis (Italy)
Sándor Beniczky (Denmark)

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32nd International Epilepsy Congress

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Satish Jain (India)               Andreas Schulze-Bonhage (Germany)
Nathalie Jette (Canada)           José Serratosa (Spain)
Reetta Kälviäinen (Finland)       Rohit Shankar (United Kingdom)
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Rima Nabbout (France)             Pierangelo Veggiotti (Italy)
Terrence O’Brien (Australia)      Annamaria Vezzani (Italy)
Çigdem Ozkara (Turkey)            Federico Vigevano (Italy)
Jack Parent (USA)                 Vicente Villanueva (Spain)
Jaime Parra (Spain)               Matthew Walker (United Kingdom)
Stefan Ramp (Germany)             Jo Wilmshurst (South Africa)
Markus Reuber (United Kingdom)    Maeike Zijlmans (Netherlands)
Felix Rosenow (Germany)           Sameer Zuberi (United Kingdom)
Antonio Russi (Spain)             

Bursary Selection Committee

Athanasios Covanis (Greece)
Emilio Perucca (Italy)
GENERAL INFORMATION

COMMITTEES

Scientific and Organising Committee

Co-Chairs
Emilio Perucca (Italy)
Athanasios Covanis (Greece)
Antonio Russi (Spain)

Members
Liset Menendez de la Prida (Spain)  Philippe Ryvlin (Switzerland)
Sari Tervonen (Finland)  Rafal Nowak (Spain)
Shinichi Hirose (Japan)  Sheryl Haut (USA)
Rima Nabbout (France)

Educational Programme Committee

Coordinators
Walter Van Emde Boas (Netherlands)
Alla Guekht (Russia)
Çigdem Ozkara (Turkey)
Marco De Curtis (Italy)
Sándor Beniczky (Denmark)

Ex Officio members
Athanasios Covanis (Greece)
Emilio Perucca (Italy)
Sam Wiebe (Canada)
WELCOME MESSAGE FROM THE ORGANISING COMMITTEE

Dear Friends and Colleagues,

On behalf of the Organising Committee, it is our pleasure to welcome you to the 32nd International Epilepsy Congress (IEC) in Barcelona, September 2nd – 6th, 2017. This congress is organised jointly by the International League Against Epilepsy (ILAE) and the International Bureau for Epilepsy (IBE).

The International Epilepsy Congress is a major biennial event and a recognised landmark in the calendar of epilepsy specialists worldwide. The congress, which is held in the prestigious Palau de Congressos de Catalunya, gives delegates from all over the world the chance to come together with fellow researchers, clinicians and health care practitioners. The scientific programme is highly engaging, with a wide range of main and parallel sessions, as well as teaching sessions, debates, multidisciplinary conferences and video sessions.

Barcelona is one of the top cities in Europe and the world in terms of hosting international conferences. Visiting the different corners of Barcelona is an authentic journey through time – over 2000 years of history, with Roman ruins, Gothic treasures and surprises from the Renaissance age. The creative flair of Picasso, Miró, Dalí, Gaudí and Tàpies is very much part of the city today and this is reflected in the buildings, exhibitions, and the design and art that are found in the most unexpected places. The city’s character is truly Mediterranean, with a cosmopolitan and dynamic spirit and we hope you get to enjoy some of what the city has to offer while you are here.

We look forward to meeting you all in this wonderful city.

With warm regards,

Emilio Perucca, Athanasios Covannis & Antonio Russi
Co-chairs of the 32nd IEC Scientific and Organising Committee
GENERAL INFORMATION

WELCOME MESSAGE FROM BARCELONA CONVENTION BUREAU

Dear attendees,

It is a great pleasure for the City of Barcelona and the Barcelona Convention Bureau to welcome the 32nd International Epilepsy Congress and its delegates.

Barcelona has become one of the most attractive and trendy destinations in Europe both for professional, travel and leisure and has a long tradition in hosting international meetings.

My team and I wish you a successful congress and we do hope that you will find time to enjoy our wonderful city, its culture and gastronomy.

Mr. Christoph Tessmar

Director

Barcelona Convention Bureau
CONGRESS INFORMATION

FACILITIES TIMETABLE OVERVIEW

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<thead>
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<th>Saturday</th>
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<tr>
<td>Registration</td>
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<td>Coffee break</td>
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<td>Lunch</td>
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<td>Posters</td>
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<td>Poster Tours</td>
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<td>Exhibition</td>
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<td>Cloakroom</td>
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<td>Speakers’ Room</td>
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CERTIFICATES OF ATTENDANCE
Certificates of Attendance may be collected from the Registration Area from Monday 4th September onwards during registration opening hours.

CLOAKROOM
The cloakroom is located on Level -1 of the congress centre. The cloakroom is free of charge for congress participants. Opening times can be found in the Facilities Timetable Overview.

www.epilepsybarcelona2017.org
CME ACCREDITATION
The 32nd International Epilepsy Congress is accredited by the European Accreditation Council for Continuing Medical Education (EACCME) to provide the following CME activity for medical specialists. The EACCME is an institution of the European Union of Medical Specialists (UEMS), www.uems.net.

The 32nd International Epilepsy Congress is designated for a maximum of 24 hours of European external CME credits. Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.

Through an agreement between the European Union of Medical Specialists and the American Medical Association, physicians may convert EACCME credits to an equivalent number of AMA PRA Category 1 Credits™. Information on the process to convert EACCME credit to AMA credit can be found at www.ama-assn.org/go/internationalcme.

Live educational activities, occurring outside of Canada, recognized by the UEMS-EACCME for ECMEC credits are deemed to be Accredited Group Learning Activities (Section 1) as defined by the Maintenance of Certification Program of The Royal College of Physicians and Surgeons of Canada.

CONGRESS APP
A free congress app “IEC 2017” is available for Apple, Windows and Android devices.

A session planner can be downloaded from the app, which will provide access to all scientific sessions information such as date, times and content. This planner will also assist delegates with the planning of their schedules.

COFFEE BREAKS
Morning Coffee Breaks will be served Sunday to Wednesday in the Exhibition Area, on the Level 0 of the convention centre. Lunches will also be served Sunday to Tuesday in the Exhibition Area.
32nd International Epilepsy Congress

CONGRESS BAGS
Congress bags may be collected from the Registration Area located on the Level 0 of the congress centre.

CONGRESS SECRETARIAT
Members of the Congress Secretariat may be contacted at any time at the Registration Area. For queries arising after the congress, please contact:

Tel: +353 1 2056720 | Email: barcelona@epilepsycongress.org

EXHIBITION AREA
The Exhibition Area is situated on the Level 0 of the Palau de Congressos de Catalunya. Exhibition opening times are listed in the Facilities Timetable Overview.

IBE GENERAL ASSEMBLY
The IBE General Assembly will take place on Tuesday 6th September from 15:30 to 18:30 in Room E3/E4/E5 on Level -1.

The IBE General Assembly is open to IBE Chapter representatives only and all representatives are invited to attend. Some refreshments will be provided.

ILAE GENERAL ASSEMBLY & CHAPTER CONVENTION
The ILAE General Assembly will take place on Tuesday 6th September from 16:30 to 17:30 in Room F on Level -1. The ILAE General Assembly is open to ILAE Chapter representatives only and all representatives are invited to attend.

The ILAE Chapter Convention will take place on Saturday 2nd September from 10:00 to 13:00 on Level -1. The ILAE Chapter Convention is open to invited representatives only.

INTERNET CENTRE
The Internet Centre is situated on Level -1 of the congress centre.

www.epilepsybarcelona2017.org
GENERAL INFORMATION

LANGUAGE
The official language of the congress is English; please note that translation facilities are not 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 Barcelona. It is therefore recommended that participants arrange their own personal health, accident and travel insurance.

POSTERS
Posters are exhibited in the Poster Area located on Level -1 of the congress centre. Posters are on display from 10:30 to 17:30, Sunday to Tuesday, with different posters presented each day. Poster presenters are required to set up their posters between 09:30 and 10:30 each morning. Posters must be removed each evening between 17:30 and 18:30.

REGISTRATION
The Registration Area is located on the Level 0 of the congress centre. Please note that name badges must be worn at all times.

SPEAKERS’ ROOM
The Speakers’ Room is located on Level -1 of the main congress building. 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.
WELCOME CEREMONY AND RECEPTION
All delegates are invited to attend the Welcome Ceremony which takes place from 19.00 to 20.00 on Saturday 2nd September in the Congress Hall. The ceremony will open with welcomes from ILAE and IBE representatives 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 Social Accomplishment Award and the Lifetime Achievement Award. The three following awards will also be acknowledged during the ceremony, and their presentations will take place during the Award Symposium each day, Saturday to Tuesday: Michael Prize, The Epilepsia Clinical Science Prize, The Epilepsia Basic Science Prize and the Epileptic Disorder Award.

All delegates are invited to join a Welcome Reception which will be held on the grounds in the Garden Restaurant.

WHEELCHAIR ACCESS
The congress centre is wheelchair accessible and assistance will be provided onsite to any wheelchair user.

WIFI
Free WiFi is available in the venue for the duration of the congress to registered delegates.

Network name: epilepsycongress2017
Password: 32iec2017
BARCELONA TRANSPORT INFORMATION

Barcelona is a large city, but the modern and extensive public transport system allows you to get anywhere within the city in no time. Metro, buses and trams run very frequently until late at night. In addition to this, there are several cable cars, funiculars, railways, taxis, local trains, night buses and other transport systems.

Getting to Barcelona city from the airport:

- Metro: L9 Sud
- Express bus: Aerobus
- Conventional bus: number 46
- Night buses: Nit Bus

Getting around Barcelona:

Barcelona and its metropolitan area have a wide range of public transport options.

Metro, tram and bus are the quickest, simplest and most convenient way of getting around Barcelona.
AWARDS

Congress Awards

The IBE/ILAE congress awards are presented biennially at the time of the International Epilepsy Congress, to honour individuals who have made significant contributions, over a long period of time and at international level, in the field of epilepsy. There are three categories: Ambassador for Epilepsy – presented to a maximum of 13 recipients; Social Accomplishment, presented to one individual; and the highest honour, Lifetime Achievement Award which, as its name implies, recognises a lifetime of achievement of an individual.

Lifetime Achievement Award

This is the highest award bestowed by IBE/ILAE and is given to an individual to recognise his or her exceptional and outstanding personal contribution over a long period of time to activities to advance the cause of epilepsy.

Presented to: Charlotte Dravet (France)

Although especially known for the epilepsy syndrome that bears her name, Prof Dravet made impressive contributions to our understanding of the clinical and electrophysiological correlates of epilepsy syndromes of childhood. Her textbook *Epileptic Syndromes in Infancy, Childhood and Adolescence*, which she co-edited, has been updated many times over two decades and represents, to this day, a reference book for both students and epileptologists alike. She has mentored many trainees who have later become leading epileptologists, particularly in Europe and Latin America.

In addition to her clinical expertise and research achievements, Prof Dravet is known worldwide for her humble attitude, tireless work and dedication to the epilepsy mission, including her support to the many lay associations, some made up of families of children with Dravet syndrome, which advocate for better care for children with epilepsy. She has produced many publications for the lay community, particularly parents of children with epilepsy, to help them cope with aspects of the disease.

Social Accomplishment Award

Every two years, one person who has carried out outstanding activities aimed at improving the social circumstances of people with epilepsy, over a long period of time, is recognised.
Presented to: Susan Axelrod (USA)

In 1998, Axelrod and two other mothers, frustrated with their inability to protect their children from the devastation of seizures and side effects of medications, spearheaded the search for a cure for epilepsy. Axelrod launched a nonprofit organization that has established a national and international presence in epilepsy awareness and research.

Under Axelrod’s leadership, CURE has led a dramatic shift in the epilepsy research community from simply treating seizures to enhancing understanding of underlying mechanisms and causes, so that cures and preventative strategies can be found. CURE’s research program is cutting-edge, dynamic and responsive to new scientific opportunities and directions through both investigator-initiated grants and unprecedented scientific programs and initiatives and the exploration of new areas in the quest to find answers. CURE has also funded landmark conferences, including the 2000 National Institutes of Health (NIH) Conference, Curing Epilepsy: Focus on the Future.

Ambassador for Epilepsy Award

The Ambassador for Epilepsy Award is the oldest IBE/ILAE award, having been introduced in 1968. To date, a total of 312 worthy recipients have received an Ambassador pin to reflect international peer recognition and which is given for the lifetime of the recipient. Thirteen Ambassadors will be presented with their awards in Barcelona.

Michel Baulac (France)  
Giuseppe Capovilla (Italy)  
Nathalie Jetté (Canada)  
Jaideep Kapur (USA)  
Astrid Nehlig (France)  
Terence O’Brien (Australia)  
Makiko Osawa (Japan)  
Galo Pesantez Cuesta (Ecuador)  
Parthasarthy Satishchandra (India)  
Ivan Rektor (Czech Republic)  
Eugen Trinka (Austria)  
Samuel Wiebe (Canada)  
Sameer Zuberi (United Kingdom)

Presentation of Awards

The Ambassador for Epilepsy Awards, together with the Social Accomplishment and Lifetime Achievement Awards will be presented to these most deserving recipients during the Welcome Ceremony of the congress in Barcelona on Saturday 2nd September 2017.
AWARDS

Epilepsia Clinical Science Prize

The Epilepsia Clinical Science Prize is awarded to the first author of an original research article published in *Epilepsia* during the period from 1st January to 31st December in any one calendar year which, in the opinion of the Awards Committee, has contributed to the most significant advancement of knowledge and understanding in clinical science in the field of epilepsy.

**Recipient: Sarah Weckhuysen (Belgium)**

The Award will be acknowledged during the Welcome Ceremony on Saturday 2nd September, and the winning paper will be presented during the Awards Symposium on Sunday 3rd September from 15:00 to 15:30 in Room F.

Epilepsia Basic Science Prize

The Epilepsia Basic Science Prize is awarded to the first author of an original research article published in *Epilepsia* during the period from 1st January to 31st December in any one calendar year which, in the opinion of the Awards Committee, has contributed to the most significant advancement of knowledge and understanding in basic science in the field of epilepsy.

**Recipient: Tiwalade Sobayo (USA)**

The Award will be acknowledged during the Welcome Ceremony on Saturday 2nd September, and the winning paper will be presented during the Awards Symposium on Monday 4th September from 15:00 to 15:30 in Room F.

Epileptic Disorders Educational Prize

The Epileptic Disorders Educational Prize is awarded to the first author of a contribution published in *Epileptic Disorders* during the period from 1st January to 31st December in any one calendar year, which in the opinion of the Awards Committee has made the most significant contribution to the educational mission of *Epileptic Disorders*. Papers are nominated by the Associate Editors and members of the Editorial Board, and the final selection is made by the Editor in Chief along with the ILAE President.
Recipient: Hiroko Ikeda (Japan)
The Award will be acknowledged during the Welcome Ceremony on Saturday 2\textsuperscript{nd} September, and the winning paper will be presented during the Awards Symposium on Tuesday 5\textsuperscript{th} September from 15:00 to 15:30 in Room F.

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.

Recipient: Boris Christian Bernhardt (Canada)
The Award will be acknowledged during the Welcome Ceremony on Saturday 2\textsuperscript{nd} September and the winning paper will be presented during the Awards Symposium on Saturday 2\textsuperscript{nd} September, from 14:30 to 15:00 in Room H1.

Harinarayan Young Neuroscientist Award

The Harinarayan Young Neuroscientist Award is designed to encourage and reward young (under 35 years of age) basic science investigators committed to epilepsy research. This new award, issued in 2017, is endowed by the ILAE Neurobiology Commission and is generously supported by a donation from the Harinarayan Family.

More information in relation to the Harinarayan Young Neuroscientist Award will be available during the congress. Awardees will be acknowledged during the Welcome Ceremony on the 2\textsuperscript{nd} September, 19:00-20:00. Awardees will be presented during the Neurobiology Symposium which will take place on Sunday 3\textsuperscript{rd} September, 12:00-14:00 in Room J.
SCIENTIFIC PROGRAMME DETAILS

Presidential Symposium
The high profile symposium has been meticulously constructed by the Presidents of ILAE and IBE. This session will cover the classification of seizures and epilepsy.

Main and Parallel Sessions
Some of the topics of the Main and Parallel Sessions originated/were selected from the numerous proposals submitted by ILAE Chapters and Commissions and IBE Regional Committees. Main sessions feature topics such as novel technologies, stress as a key factor in epilepsy and co-morbidities, precision medicine, epileptic encephalopathies and understanding the nature of seizures.

The Parallel Sessions ensure a comprehensive selection of dynamic topics delivered by experts from world leading epilepsy institutions.

Debates
The debate sessions will present, in a lively and stimulating format, opposing views about controversial topics.

Video Sessions
There will be three video sessions in the main programme focussing on the practical implementation of the new ILAE classification and the EpilepsyDiagnosis.Org diagnostic website.

Ask the Experts
A new addition to the scientific programme is the ‘Ask the Experts’ sessions. These will take place over three days and cover the following topics; Classification, Women’s’ Issues and Managing difficult cases of epilepsy in childhood.

WONOEP Highlights
The WONOEP workshop, which traditionally takes place in the days before the International Epilepsy Congress, is a unique opportunity for basic scientists
and clinicians to get together and appraise the latest developments in translational science. A special session at the beginning of the congress will provide delegates with highlights of the most significant points emerged during the 2017 WONOEP.

**Teaching Programme**
The extensive teaching programme will offer three to six daily early morning interactive sessions covering many practical aspects of epilepsy diagnosis and management.

Five ILAE/VIREPA sessions will be devoted to EEG (basic, advanced and paediatric) and to current web-based ILAE educational activities.

Case-oriented sessions will discuss practical issues of psychiatric and non-psychiatric comorbidities, epileptic encephalopathies, adult and paediatric epilepsy surgery, genetic and/or autoimmune aspects, the role of diets in epilepsy and the diagnosis and management of epilepsy in resource-limited settings.

Two special sessions will deal with epilepsy and the internet and with the dos and don’ts of participation in drug studies.

Video sessions will cover neonatal and paediatric seizures and semiology and the differential diagnosis of epileptic seizures, sleep disorders and motor disorders. A special session will deal with the testing of patients during seizures.

**EEG Technicians Course**
There will be two practical sessions, aimed specially at EEG technicians, focusing on optimising recording techniques for standard EEG, special studies and long term EEG and Video-monitoring in epilepsy.

**Congress highlights**
Another popular session of the 31st International Epilepsy Congress was the ‘Highlights’ session. As a result this concluding session will be included in Barcelona to provide delegates with an overview of the most important, original and interesting findings, presented throughout the congress programme.
ABSTRACTS

The Scientific and Organising Committee would like to thank all of those who submitted an abstract for review for the 32nd International Epilepsy Congress. Almost 1,200 abstracts were received in 20 categories.

Abstracts may be viewed online on the congress website: www.epilepsybarcelona2017.org.

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

Platform Sessions

92 abstracts were selected for platform presentation in 19 sessions.

Posters

Posters are on display from 10:30 to 17:30, with different posters presented each day (Sunday to Tuesday). See page 104 for full details about posters.

Poster Tours

Guided poster tours, led by a prestigious roster of experts in the field, will take place during the congress. See page 99 for full details about poster tours.

BURSARIES

In order to encourage young investigators to participate in the 32nd IEC, a total of 104 bursaries were awarded by ILAE and IBE to assist with registration and/or travel and/or accommodation. 77 bursaries were awarded by the ILAE and 27 by the IBE.
ILAE Bursary Recipients

Hai Xue (China) Oliver Riley (United Kingdom)
Nuria Campora (Argentina) Taha Gholipour (USA)
Ying Xu (Australia) Manuel Couyoupetrou (Argentina)
Caroline Neuray (Austria) Xiaosa Chi (China)
Marina Coelho Gonsales (Brazil) Lady Diana Ladino (Colombia)
Sebastian Ruge Møller (Denmark) Noha Tharwat (Egypt)
Devavrat Nene (India) Lisa-Marie Neupert (Germany)
Giulia Monti (Italy) Ramshekharn Menon (India)
Marienke A.A.M. de Bruijn (Netherlands) Lokesh Tiwari (India)
Ben Wijnen (Netherlands) Lidia Di Vito (Italy)
Kyle H Bennett (United Kingdom) Loretta Giuliano (Italy)
Felix Chan (United Kingdom) Samar Abbas (Lebanon)
Gabriela Reyes Valenzuela (Argentina) Victor Navarrete-Modesto (Mexico)
Hui Ming Khoo (Canada) Prakash Paudel (Nepal)
Benoit Girard (France) Annick Melanie Magnerou (Senegal)
Stefan Wolking (Germany) Kevin Hampel (Spain)
Francesca Furia (Italy) José David Herrera-García (Spain)
Symon Kariuki (Kenya) Sara Baldini (Switzerland)
Youssoufa Maiga (Mali) Natrujee Wiwattanadittakul (Thailand)
Kenia Pardo-Peña (Mexico) Cihan Isler (Turkey)
Evelien Geertsema (Netherlands) Müberra Tanriverdi (Turkey)
Nicole van Klink (Netherlands) Valeriy Cheburakhin (Ukraine)
Nadia Kafui Adotevi (New Zealand) Yevgeniya Lekomtseva (Ukraine)
Barbara Pijet (Poland) Rosaly Gonzalez Zerpa (Venezuela)
Lorenzo Caciagli (United Kingdom)
IBE Bursary Recipients

Dash Gopal Krishna (India)  
Mauricio Olave Aguirre (Colombia)  
Luliia Lakubenko (Ukraine)  
Ksenija Majstorovic (Republic of Macedonia)  
Alla Nechay (Ukraine)  
Ancor Sanz (Spain)  
Jacopo Lanzone (Italy)  
Lorenzo Ricci (Italy)  
Nicoletta Brunelli (Italy)  
Anna Keramida (Greece)  
Lorenzo Ferri (Italy)  
Sviatlana Kulikova (Republic of Belarus)  
Nicole Rommens (Netherlands)  
Lidya Belai (Ethiopia)  
Sarah Buck (United Kingdom)  
Sofiene Bouali (Tunisia)  
Doga Coskun (Turkey)  
Nihan Carack Yilmaz (Turkey)  
Rabia Warraich (United Kingdom)  
Stanislav Malyshev (Russia)  
Cholpon Shambetova (Kyrgyz Republic)  
Bianca De Blasi (Kyrgyz Republic)  
Lamia Sfaihi (Tunisia)  
Nancy Watanabe (Brazil)  
Feruzjon Rakhimov (Uzbekistan)  
Bakhtigul Kholmuratova (Uzbekistan)

ILAE Leadership Programme Bursaries

Keryma Acavedo (Chile)  
Jules Beal (USA)  
Danielle Becker (USA)  
Daniel Gams Massi (Senegal)  
Gonzalo J Garcia (Columbia)  
Sherifa Hamed (Egypt)  
Abeer Hani (Lebanon)  
Laura Hernandez Vanegas (Mexico)  
Henna Jonsson (Finland)  
Colin Joseph (Canada)  
Gudrun Kalss (Austria)  
Judy Kariuki (Kenya)  
Param Kharbanda (India)  
Edward Kija (Tanzania)  
Mohamad Koubeissi (USA)  
Colin Lui (Hong Kong)  
Stevo Lukic (Serbia)  
Apasri Lusawat (Thailand)  
Bindu Menon (India)  
Pricilla Monterrey Alvarez (Costa Rica)  
Dang Khoa Nguyen (Canada)  
San Oo (Myanmar)  
Ana Piršić (Croatia)  
Genevieve Rayner (Australia)  
Barbara Rosso (Argentina)  
Ovidio Solano Cabrera (El Salvador)  
Rochelle Soranzo (Canada)  
Go Taniguchi (Japan)  
Line Mandix Thorsen (Denmark)  
Erwin van Vliet (Netherlands)  
Johan Zelano (Sweden)  
Showen Zhang (China)  
Maeike Zijlmans (Netherlands)  
Tianjay Josephine Kamanda (Sierra Leone)
### SATURDAY 2\textsuperscript{nd} SEPTEMBER

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<td>13.00-13.30</td>
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<td>VIREPA COURSE - EEG Basic/Advanced</td>
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<td>Network Imaging in epilepsy</td>
<td>Advances in research in PME of Lafora: searching for a cure</td>
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<td>17.30-18.00</td>
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<td>The epilepsy autism conundrum</td>
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<td>19.00-19.30</td>
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<td>Welcome Ceremony</td>
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<td>20.00-20.30</td>
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<td>Welcome Reception (Garden Restaurant)</td>
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<td>CASE-ORIENTED SERIES - Non Psychiatric Comorbidities</td>
<td>VIDEO SERIES - Nocturnal events: epilepsy/parasomnia</td>
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<td>Michael Prize Symposium</td>
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<td>Stronger together - advocating together for research, comprehensive care and involvement of patients with epilepsy</td>
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<td>MicroRNA in epilepsy</td>
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Welcome Ceremony
Welcome Reception (Garden Restaurant)

Saturday, Sep 2

Advances in research in PME of Lafora: searching for a cure
The epilepsy autism conundrum
Network Imaging in epilepsy

Stronger together - advocating together for research, comprehensive care and involvement of patients with epilepsy
### Teaching Session

**Room A**

**13:00 – 14:30**  
**VIREPA Course**

**EEG-Basic**  
Bogdan Lorber (Slovenia)

**EEG-Advanced**  
Michaelis Koutroumanidis (United Kingdom)

---

**Teaching Session**  
**Room H1**

**13:00 – 14:30**  
**Case Oriented Series**

**Non-psychiatric comorbidities**  
Martin Brodie (United Kingdom)

**Non-psychiatric comorbidities**  
Alla Guekht, (Russia)

---

**Teaching Session**  
**Room J**

**13:00 – 14:30**  
**Video Series**

**Nocturnal events: epilepsy/parasomnia**  
Al de Weerd (Netherlands)

**Nocturnal events: epilepsy/parasomnia**  
Sándor Beniczky (Denmark)
32nd international epilepsy congress

32nd international epilepsy congress
www.epilepsybarcelona2017.org

Award Symposium
Room H1
14:30 – 15:00

Michael Prize Symposium
Co-chairs: Helen Cross (United Kingdom) & Emilio Perucca (Italy)

Neuroimaging and connectome analysis of temporal lobe epilepsy: from hippocampal subfields to large-scale networks
Boris Christian Bernhardt (Canada)

Satellite Symposium
Room A
15:30 – 17:00
Please see page 78 for details

Satellite Symposium
Room F
15:30 – 17:00
Please see page 78 for details

Parallel Session
Congress Hall
17:00 – 18:30

Networking imaging in epilepsy
Co-chairs: Christophe Bernard (France) & Simon Keller (United Kingdom)

Electrical signatures of epileptic phenotypes
Liset M de la Prida (Spain)

Seizure dynamics: role of the connectome and hubs
Christophe Bernard (France)

Network alterations in epilepsy revealed by volumetric MRI
Simon Keller (United Kingdom)

Architecture and dynamics of structural networks in epilepsy: implications for personalised medicine
Leonardo Bonhila (USA)

www.epilepsybarcelona2017.org
Parallel Session
Room A
17:00 – 18:30
The epilepsy autism conundrum
Co-chairs: John Jacob (United Kingdom) & Stéphane Auvin (France)

Diagnostic challenges in children with epilepsy and Autistic Spectrum Disorder (ASD)?
Stéphane Auvin (France)

The shared genetics of epilepsy and ASD
Ingrid Scheffer (Australia)

Cortical dysfunction in epilepsy and ASD
John Jacob (United Kingdom)

Goals and recommended approaches in antileptic treatment for children with ASD
Lieven Lagae (Belgium)

Parallel Session
Room H1
17:00 – 18:30
Stronger together – advocating together for research, comprehensive care and involvement of patients with epilepsy
Co-chairs: Sari Tervonen (Finland) & Francesca Sofia (Italy)

Why do we need better communication and collaboration between professional and lay organisations?
Manjari Tripathi (India)

Common barriers to collaboration – how to establish a new culture of teamwork
Pierre Genton (France)

The 'inseparable' IBE and ILAE chapters in Finland – how was this achieved?
Reetta Kälviäinen (Finland)
Advocating for epilepsy and making change in social and health care policy
Brian Hayes, Member of the European Parliament (MEP) (Ireland)

Parallel Session
Room F
17:00 – 18:30

Advances in research in PME of Lafora: searching for a cure

Co-Chairs: Jose Serratosa (Spain) & Antonio Delgado-Escueta (Spain)

Glycogen metabolism as the driving force of LD
Matthew Gentry (USA)

Reducing glycogen synthesis as a therapy for LD: genomic therapies
Berge Minassian (Canada)

Reducing glycogen synthesis as a therapy for LD: small molecules
Peter Roach (USA)

When can LD be treated during evolution?
Joan Guinovart (Spain)

Translation to the clinic
Antonio Delgado-Escueta (Spain)

Translation to the clinic
Jose Serratosa (Spain)
SATURDAY 2nd SEPTEMBER

Parallel Session
Room J
17:00 – 18:30  **MicroRNA in epilepsy**
*Co-chairs: Felix Rosenow (Germany) & David Henshall (Ireland)*

**Novel epilepsy-associated microRNAs**
David Henshall (Ireland)

**Genetic variants in microRNA and their target genes**
Ayal Gussow (USA)

**MicroRNA in biofluids as biomarkers of human epilepsy, seizures and status epilepticus**
Felix Rosenow (Germany)

**Disease modification and anti-epileptogenesis; therapeutic targeting of miR-146a and miR-134**
Michele Simonato (Italy)
13th European Congress on Epileptology | Sun 26th - Thurs 30th August 2018

www.epilepsyvienna2018.org
### Sunday, September 3rd

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**Break**
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<tr>
<td>CASE ORIENTED SERIES - Epileptic Encephalopathies</td>
<td>ADVANCED EEG</td>
<td>VIDEO SERIES - Neonatal seizures/non epileptic events</td>
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<tr>
<td>Management of epilepsy in resource-limited settings</td>
<td>Ketogenic therapies: state of the art</td>
<td>Neurobiology Symposium</td>
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Posters

<table>
<thead>
<tr>
<th>BASIC SCIENCE 1</th>
<th>LIVING WITH SEIZURES/EPILEPSY 1</th>
<th>CLINICAL NEUROPHYSIOLOGY 1</th>
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<tbody>
<tr>
<td>DEBATE - Pacing ictal asystole?</td>
<td>DEBATE - Will gene and cell therapy be clinically-relevant for epilepsy?</td>
<td>ASK THE EXPERT - Classification</td>
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</table>
SUNDAY 3rd SEPTEMBER

Teaching Session
Room A
08:00 – 09:30  **VIREPA Course**

*Neuroimaging*
Petr Marusic (Czech Republic)

*New course formats: Neuroimaging*
Stefan Rampp (Germany)

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Teaching Session
Room H1
08:00 – 09:30  **Case Oriented Series**

*Epileptic encephalopathies*
Rima Nabbout (France)

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Teaching Session
Room H2
08:00 – 09:30  **Miscellaneous Series**

*Advanced EEG*
Maeike Zijlmans (Netherlands)

*Advanced EEG*
Sándor Beniczky (Denmark)

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Satellite Symposium
Room F
08:00 – 09:30  Please see page 79 for details
Teaching Session
Room J

08:00 – 09:30  **Video Series**

**Neonatal seizures/non-epileptic events**  
Monika Eisermann (France)

**Neonatal seizures/non-epileptic events**  
Jo Wilmshurst (South Africa)

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Presidential Symposium
Congress Hall

09:30 – 11:30  **A new classification is born**

*Co-chairs: Emilio Perucca (Italy) & Athanasios Covanis (Greece)*

**Developing a classification of seizures and epilepsy: Lessons from history**  
Solomon L. Moshé- (USA)

**The ILAE classification of seizures**  
Sameer Zuberi (United Kingdom)

**The ILAE classification of the epilepsies**  
Ingrid Scheffer (Australia)

**The new classification: cultural context and implications for people with epilepsy**  
Satish Jain (India)

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Parallel Session
Congress Hall

12:00 – 13:30  **Clinical approach to status epilepticus**

*Co-chairs: Simon Shorvon (United Kingdom) & Javier Salas-Puig (Spain)*

**Impact of the new definition and classification on clinical management**  
Eugen Trinka (Austria)
SUNDAY 3rd SEPTEMBER

Rare causes of status epilepticus  
CT Tan (Malaysia)

Neuroimaging of status epilepticus  
Giada Giovannini (Italy)

New drug treatments of status epilepticus  
Simon Shorvon (United Kingdom)

Parallel Session  
Room A  
12:00 – 13:30  
Innovation in epilepsy surgery: keeping promises?  
Co-chairs: Antonio Russi (Spain) & Rodrigo Rocamora (Spain)

Moving away from long-term video-EEG monitoring  
Jean Gotman (Canada)

Using networks to delineate a focus  
Fernando Cendes (Brazil)

High frequency oscillations for surgical decision making  
Maeike Zijlmans (Netherlands)

Novel minimally invasive therapies  
Gary Mather (USA)

Parallel Session  
Room H1  
12:00 – 13:30  
Management of epilepsy in resource-limited settings  
Co-chairs: Gretchen Birbeck (Zambia) & Ali Asadi-Pooya (Iran, Islamic Republic of)

Management of epilepsy in resource-limited settings: the basic requirements  
Boulenouar Mesraoua (Qatar)

Management of epilepsy in resource-limited settings: establishing an epilepsy surgery program  
Ali Asadi-Pooya (Iran, Islamic Republic of)
Management of epilepsy in resource-limited settings: telemedicine
Victor Patterson (Nepal)

Management of epilepsy in resource-limited settings: epilepsy care guidelines
Gretchen Birbeck (Zambia)

Parallel Session
Room H2
12:00 – 13:30
**Ketogenic therapies: state of the art**
*Co-chairs: Helen Cross (United Kingdom) & Roberto Caraballo (Argentina)*

**How does the ketogenic diet work?**
Heung Dong Kim (Korea, Republic of)

**What is the evidence for effectiveness in children?**
Helen Cross (United Kingdom)

**The ketogenic diet in metabolic inherited disorders**
Pierangelo Veggiotti (Italy)

**Diets for status epilepticus**
Roberto Caraballo (Argentina)

Neurobiology Symposium
Room J
12:00 – 14:00
**Understanding the complexity and networks of epilepsies and their comorbidities**
*Co-chairs: Marco de Curtis (Italy) & Norberto Garcia-Cairasco (Brazil)*

**The human brain and the search for networks and connectivity maps associated to the epilepsies and their comorbidities**
Maxime Guye (France)

**Neurogenesis and gene cascade linking epilepsy to depression and autism**
Steve Danzer (USA)
SCIENTIFIC PROGRAMME INFORMATION

SUNDAY 3rd SEPTEMBER

Brain somatic mutation in mTOR and epileptogenesis
Hoon-Chul Kang (Korea, Republic of)

Etiology and cognitive impairment – networks as a therapeutic target to improve outcomes
Rodney Scott (United Kingdom)

Complexity and emergence in epileptogenic networks: clinical experimental and computational challenges and perspectives
Norberto Garcia-Cairasco (Brazil)

Award Symposium
Room F
15:00 – 15:30

Epilepsia Clinical Science Prize
Co-chairs: Dieter Schmidt (Germany) & Michael Sperling (USA)

Involvement of GATOR complex genes in familial focal epilepsies and focal cortical dysplasia
Stephanie Baulac (France)

Platform Session
Congress Hall
15:30 – 16:30

Paediatric Epilepsies 1
Co-chairs: Sameer Zuberi (United Kingdom) & Heung Dong Kim (Korea, Republic of)

0021 Aetiology and subcortical structure volume are associated with subsequent cognitive deficits in children following convulsive status epilepticus (CSE)
Kyle H Bennett (United Kingdom)

0022 Cannabidiol (CBD) reduces convulsive seizure frequency in Dravet syndrome: results of a multi-centre, randomised, double-blind, placebo-controlled trial (GWPCARE1)
J. Helen Cross (United Kingdom)

0023 Genetic and phenotypic heterogeneity suggest therapeutic implications in SCN2A-related disorders
Markus Wolff (Germany)
32nd International Epilepsy Congress

0024  Neurodevelopmental outcomes in new-borns with neonatal seizures caused by rotavirus-associated leukoencephalopathy  
       Kyung Yeon Lee (Korea, Republic of)

0025  Electrical status epilepticus in sleep after thalamic injury: clinical and neuroimaging predictors in 26 children  
       Bart van den Munckhof (Netherlands)

Platform Session
Room H1
15:30 – 16:30  Basic Sciences 1
Chair: Matthew Walker (United Kingdom)

0001  Proresolving anti-inflammatory mechanisms are novel potential targets against epileptogenesis  
       Federica Frigerio (Italy)

0002  Novel drug-screening in “epileptic” zebrafish uncovers histone deacetylase (HDAC) 1 and 3 as a novel anticonvulsant target  
       Kingsley Ibhazehiebo (Canada)

0003  Anti-epileptogenic and epilepsy comorbidity modifying effects of a selective T-type Ca2+ channel antagonist, Z944, in the post-status epilepticus model of temporal lobe epilepsy  
       Pablo M. Casillas-Espinosa (Australia)

0004  Tackling epileptogenesis via the mGlu7 glutamate receptor  
       Benoit Girard (France)

0005  The NINDS/NIH Epilepsy Therapy Screening Program (ETSP)  
       John H. Kehne (USA)

Platform Session
Room H2
15:30 – 16:30  Living with seizures/epilepsy 1
Co-chairs: Satish Jain (India) & Caroline Morton (Netherlands)

0016  Behavioural and emotional comorbidity of acute seizures in young Kenyan children: a population-based study  
       Symon M. Kariuki, Kenya

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### SCIENTIFIC PROGRAMME INFORMATION

**SUNDAY 3rd SEPTEMBER**

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<td>0017</td>
<td>Parenting stress and perceived stigma in mothers of children</td>
<td>Colin Reilly (United Kingdom)</td>
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<td>with early onset epilepsy: a population-based study</td>
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<td>0018</td>
<td>&quot;Seizure monitoring on my App&quot; A nursing approach in the implementation of a Seizure App. Perspectives from clinical practice</td>
<td>Lone Olsen (Denmark)</td>
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<td>0019</td>
<td>An economic evaluation of a multi-component self-management intervention for adults with epilepsy (ZMILE study)</td>
<td>Ben Wijnen (Netherlands)</td>
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<td>0020</td>
<td>Knowledge and attitudes towards epilepsy of parents in Mali</td>
<td>Youssoufa Maiga, Mali</td>
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**Platform Session**  
**Room F**  
15:30 – 16:30  
**Epilepsy Surgery 1**  
*Co-chairs: Frans Leijten (Netherlands) & Gary Mathern (USA)*

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<tr>
<td>0011</td>
<td>Relationship between cortical resection and visual function after occipital lobe epilepsy surgery</td>
<td>Chun Kee Chung (Korea, Republic of)</td>
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<td>0012</td>
<td>Focal epileptiform discharges detected by magnetoencephalography and simultaneous electroencephalography</td>
<td>Lene Duez (Denmark)</td>
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<td>0013</td>
<td>Meaningful improvement in quality of life after temporal lobe epilepsy surgery: a prospective study with Brazilian patients</td>
<td>Katia Lin (Brazil)</td>
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<td>0014</td>
<td>Feasibility and safety of repeat stereotactic radiofrequency thermocoagulation for recurrent gelastic seizure due to hypothalamic hamartoma</td>
<td>Hiroshi Shirozu (Japan)</td>
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<td>0015</td>
<td>Stimulation induced seizures during extraoperative direct electrical cortical stimulation for cortical mapping</td>
<td>Martha Spilioti (Greece)</td>
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Platform Session
Room J
15:30 – 16:30 Clinical Neurophysiology 1
Co-chairs: Jean Gotman (Canada) & Maeike Zijlmans (Netherlands)

0006 Spindle oscillations trigger rolandic discharges in benign childhood epilepsy
Shinobu Kohsaka (Japan)

0007 Responsiveness to a word-listening task in children with rolandic epilepsy: a magnetoencephalographic study
Kuriko Kagitani-Shimono (Japan)

0008 Association of default mode network (DMN) regions at absence seizure onset unconstrained by their frequency confinement
Sanjib Sinha (India)

0009 New hybrid micro-macroelectrodes to record fast-ripples in patients with drug-refractory epilepsy
Elodie Despouy (France)

0010 Electroencephalographic abnormalities in anti NMDAR encephalitis
Sophie Jeannin-Mayer (France)

Satellite Symposium
Room A
16:30 – 18:00 Please see page 79 for details
**SUNDAY 3rd SEPTEMBER**

**Debate**
Room H1

17:00 – 18:00  **Pacing ictal asystole?**

**Pacing ictal asystole? – PRO**
Rainer Surges (Germany)

**Pacing ictal asystole? – CON**
Felix Rosenow (Germany)

**Debate**
Room H2

17:00 – 18:00  **Will gene and cell therapy be clinically relevant for epilepsy?**

**Will gene and cell therapy be clinically relevant for epilepsy? – CON**
Sam Wiebe (Canada)

**Will gene and cell therapy be clinically relevant for epilepsy? – PRO**
Jack Parent (USA)

**Video Session**
Room F

17:00 – 18:00  **Seizures and epilepsies in adults**

**Seizures and epilepsies in adults**
Jacqueline French (USA)

**Seizures and epilepsies in adults**
Sam Berkovic (Australia)
Ask the Experts
Room J

17:00 – 18:00  Classification

Classification
Ingrid Scheffer (Australia)

Classification
Sameer Zuberi (United Kingdom)

Satellite Symposium
Congress Hall
18:00 – 19:30  Please see page 80 for details

Satellite Symposium
Room F
18:10 – 19:40  Please see page 80 for details
### SCIENTIFIC PROGRAMME INFORMATION

#### MONDAY 4th SEPTEMBER

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<td>Seizure detection in ambulatory patients</td>
<td>Myths in epilepsy and psychiatry: what is the evidence?</td>
<td>Neonatal Seizures from Bench to Incubator</td>
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<td>VIDEO SESSION - Seizures and epilepsies in children</td>
<td>ASK THE EXPERTS - Womens’ Issues</td>
<td>DEBATE - Is ictal scalp-EEG recording mandatory for epilepsy surgery?</td>
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**Break & P**
### Schedule

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<td>J</td>
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<td>Press</td>
<td>EEG Course - Interactive, hands-on teaching session on applying high-density EEG electrode arrays, rapid scanning of the electrode positions and testing patients during seizure</td>
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<td>Stress: a key factor in epilepsy and co-morbidities</td>
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<td>Rare and complex epilepsies: addressing the needs of PWE and their families</td>
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<td>Autoimmunity and inflammation in epilepsy</td>
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<td>Press</td>
<td>Use of intracranial recordings in presurgical assessment: Is it worth it?</td>
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<td>DEBATE - Do the cognitive benefits of temporal lobe surgery outweigh the cognitive risks?</td>
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<tr>
<td>Press</td>
<td>Satellite Symposium</td>
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### Topics

- **Psychology:**
  - Stress: a key factor in epilepsy and co-morbidities
- **Neuroimaging:**
  - Use of intracranial recordings in presurgical assessment: Is it worth it?
  - DEBATE - Do the cognitive benefits of temporal lobe surgery outweigh the cognitive risks?
  - Satellite Symposium

**Sponsors**

- VIREPA COURSE
  - Paediatric semiology: epileptic/non epileptic
  - Set-up
  - Novel Technologies for epilepsy - Opportunities and pitfalls
  - Posters
  - MISCELLANEOUS SERIES - Epilepsy and Disability
- CASE ORIENTED SERIES - Surgical cases, adults
- VIDEO SERIES - Paediatric semiology: epileptic/non epileptic
- EEG Course - Interactive, hands-on teaching session on applying high-density EEG electrode arrays, rapid scanning of the electrode positions and testing patients during seizure
- Rare and complex epilepsies: addressing the needs of PWE and their families
- Autoimmunity and inflammation in epilepsy
- DEBATE - Do the cognitive benefits of temporal lobe surgery outweigh the cognitive risks?
- DEBATE - Is ictal scalp-EEG recording mandatory for epilepsy surgery?
- VIDEO SESSION - Seizures and epilepsies in children
- DRUG THERAPY
  - Use of intracranial recordings in presurgical assessment: Is it worth it?
- LIVING WITH SEIZURES/EPILEPSY 2
  - Satellite Symposium
- GENETICS 1 EPIDEMIOLOGY 1
  - Neonatal Seizures from Bench to Incubator
- BASIC SCIENCE 2
  - Debates Series
  - Satellite Symposium
Teaching Session
Room A
08:00 – 09:30  VIREPA COURSE

EEG-Pediatric
Monika Eisermann (France)

Sleep and epilepsy
Al de Weerd (Netherlands)

Teaching Session
Room H1
08:00 – 09:30  Case Oriented Series

Surgical cases, adults
Çigdem Ozkara, Turkey

Surgical cases, adults
Antonio Gil-Nagel, Spain

Satellite Symposium
Room H2
08:00 – 09:30  Please see page 81 for details

Teaching Session
Room F
08:00 – 09:30  Miscellaneous Series

Epilepsy and intellectual disability: the clinical spectrum
Christian Brandt (Germany)

Genetic testing in epilepsy with intellectual disability: what and when?
Ingrid Scheffer (Australia)
Teaching Session
Room J
08:00 – 09:30 Video Series
Paediatric semiology: epileptic/non-epileptic
Dana Craiu (Romania)
Paediatric semiology: epileptic/non-epileptic
Lieven Lagae (Belgium)

Teaching Session
Press Room II
08:00 – 09:30 EEG Course
Interactive, hands-on teaching session on applying high-density EEG electrode arrays, rapid scanning of the electrode positions and testing patients during seizures
Sándor Beniczky (Denmark)
Christian Skaarup (Denmark)
Anders Bach Justesen (Denmark)

Main Session
Congress Hall
09:30 – 11:30 Novel technologies for epilepsy; opportunities and pitfalls
Chair: Philippe Ryvlin (Switzerland)
Novel technologies for epilepsy: an overview
Philippe Ryvlin (Switzerland)
Using technology to improve knowledge and skills
Nathalie Jetté (Canada)
Using technology to improve quality of care and safety
Gregory Krauss (USA)
MONDAY 4th SEPTEMBER

Main Session
Room J

09:30 – 11:30 Stress: a key factor in epilepsy and co-morbidities
Co-chairs: Sheryl Haut (USA) & Terence O’Brien (Australia)

Stress, the hippocampus and epilepsy
Terence O’Brien (Australia)

The evolving interactions of stress, anxiety and depression in epilepsy
Markus Reuber (United Kingdom)

Prenatal and childhood stress: impact on epilepsy
Jolien van Campen (Netherlands)

Measuring and treating stress: how novel technologies are taking us forward
Sheryl Haut (USA)

Parallel Session
Congress Hall

12:00 – 13:30 Seizure detection in ambulatory patients
Co-chairs: Mark Cook (Australia) & Andreas Schulze-Bonhage (Germany)

Experience from invasive EEG-based seizure detection
Mark Cook (Australia)

Non-invasive EEG-based seizure detection
Andreas Schulze-Bonhage (Germany)

EKG-based seizure detection
Christoph Baumgartner (Austria)

Non-EEG, non-EKG-based nocturnal seizure detection
Frans Leijten (Netherlands)
Parallel Session
Room A
12:00 – 13:30

Myths in epilepsy and psychiatry: what is the evidence?
Co-chairs: Marco Mula (United Kingdom) & Jo Wilmshurst (South Africa)

Should psychiatric comorbidities prevent patients from having epilepsy surgery?
Byung-In Lee (Korea, Republic of)

Are psychostimulants contraindicated in children with epilepsy?
Jo Wilmshurst (South Africa)

Are psychogenic non-epileptic attacks less hazardous than epileptic seizures?
Kette Valente (Brazil)

Do AEDs increase suicidality in epilepsy?
Marco Mula (United Kingdom)

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Parallel Session
Room H1
12:00 – 13:30

Rare and complex epilepsies: addressing the needs of PWE and their families
Co-chairs: Philip Gattone (USA) & Rima Nabbout (France)

What are rare and complex epilepsies and why do we need special actions for them?
Alexis Arzimanoglou (France)

The rare epilepsies network of the Epilepsy Foundation of America
Philip Gattone (USA)

Supporting PWE with rare epilepsies: learning from successful initiatives: Dravet syndrome groups
Julian Isla (Spain)
MONDAY 4th SEPTEMBER

Supporting PWE with rare epilepsies: learning from successful initiatives: progressive myoclonus epilepsies
Paavo Marikainen (Finland)

Parallel Session
Room F
12:00 – 13:30 Neonatal seizures: from bench to incubator
Co-chairs: Aristea Galanopoulou (USA) Lucia Fusco (Italy)
Pathophysiology of neonatal seizures
Mathieu Milh (France)
This is a seizure, this is not: Mice pups
Aristea Galanopoulou (USA)
This is a seizure, this is not: Human neonates
Lucia Fusco (Italy)
When, how and what to treat?
Akihisa Okumura (Japan)

Parallel Session
Room J
12:00 – 13:30 Autoimmunity and inflammation in epilepsy
Co-chairs: Annamaria Vezzani (Italy) & Sarosh Irani (United Kingdom)
Neuro inflammation and epilepsies
Annamaria Vezzani (Italy)
Autoimmune epilepsies
Sarosh Irani (United Kingdom)
Immunotherapies in epilepsy
Sean Pittock (USA)
Award Symposium
Room F
15:00 – 15:30 **Epilepsia Basic Science Prize**
*Chair: Astrid Nehlig (France)*

Should stimulation parameters be individualized to stop seizures: Evidence in support of the approach
Tiwalade Sobayo (USA)

Platform Session
Congress Hall
15:30 – 16:30 **Drug Therapy**
*Co-chairs: Michel Baulac (France) & Alla Guekht (Russia)*

0026 Cannabidiol (CBD) significantly reduces drop and total seizure frequency in Lennox-Gastaut syndrome (LGS): results of a dose-ranging, multi-centre, randomised, double-blind, placebo-controlled trial (GWPCARE3)
Sameer Zuberi (United Kingdom)

0027 Considering anti-epileptic drug withdrawal? A tool for individual prediction of seizure outcomes
Herm J Lamberink (Netherlands)

0028 Adjunctive everolimus in patients with treatment-refractory seizures associated with tuberous sclerosis complex (TSC): analysis of exposure-efficacy and exposure-safety relationships in the randomized, phase 3, EXIST-3 trial
Jacqueline French (USA)

0029 Symptomatic treatment of anti-GABA\(\text{B} R\) and anti-LGI1 autoimmune epilepsy
Marienke A.A.M. de Bruijn (Netherlands)

0030 Comparing the efficacy of sodium valproate and levetiracetam following initial lorazepam in generalized convulsive status epilepticus (GCSE) in elderly: a prospective randomized controlled study
Devavrat Nene (India)
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Platform Session  
Room A
15:30 – 16:30  Genetics 1
Co-chairs: Iscia Lopes-Cendes (Brazil) & Nicola Specchio (Italy)

0036 Precision therapy for epilepsy due to KCNT1 mutations: an order-randomised, double-blind, placebo-controlled cross-over trial of oral quinidine
Saul Mullen (Australia)

0037 The phenotypic spectrum of SCN8A mutations and treatment response
Katrine M Johannesen (Denmark)

0038 Genetic investigation of sudden unexpected death in epilepsy cohort by panel target resequencing
Pasquale Striano (Italy)

0039 KCNT1 pathogenic variants cause nocturnal frontal lobe epilepsy and malformation of cortical development
Guido Rubboli (Denmark)

0040 Aetiologies and cost-effectiveness of genomic testing in severe epilepsies of infancy: a population-based study
Katherine B Howell (Australia)

Platform Session  
Room H1
15:30 – 16:30  Neuroimaging
Co-chairs: William Theodore (USA) & Bernhard Pohlmann-Eden (Canada)

0046 Functional connectivity of mPFC compensates episodic memory encoding network following medial temporal lobe resection
Chun Kee Chung (Korea, Republic of)

0047 Seizure control and hippocampal sclerosis are related to metabolic alterations in mesial temporal lobe epilepsy
Luciana Pimentel-Silva (Brazil)
### Platform Session

**Room H2**

**15:30 – 16:30** **Living with seizures/epilepsy 2**  
*Co-chairs: Galo Pesantez Cuesta (Ecuador) & Shichuo Li (China)*

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<tr>
<th>Session</th>
<th>Title</th>
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<tr>
<td>0041</td>
<td>The impact of physical attractiveness judgments on stigma of epilepsy</td>
<td>Aleksandar Ristic, Serbia</td>
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<td>0042</td>
<td>Self-Management education for adults with poorly controlled epileps (SMILE-UK)</td>
<td>Leone Ridsdale (United Kingdom)</td>
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<td>0043</td>
<td>New epilepsy guideline in Norway – available on net and as a free app</td>
<td>Karl O. Nakken, Norway</td>
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<td>0044</td>
<td>Attitudes and experiences of medicinal cannabis use in epilepsy</td>
<td>Lisa Todd (Australia)</td>
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<td>0045</td>
<td>Effects of a specialized inpatient treatment program on epilepsy related impairments of patients with epilepsy and intellectual disability as rated by relatives and carers</td>
<td>Christian Brandt (Germany)</td>
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Platform Session
Room F

15:30 – 16:30  Epidemiology 1
Co-chairs: Jakob Christensen (Denmark) & Jorge Burneo (Canada)

0031  Familial mesial temporal lobe epilepsy and the borderland of déjà vu
Piero Perucca (Australia)

0032  Seizures and high-grade gliomas: a UK single centre retrospective analysis
Oliver Riley (United Kingdom) & Nicholas Allcroft (United Kingdom)

0033  Impact of seizures after thrombolysis for acute ischemic stroke: the ENCHANTED trial
Ying Xu (Australia)

0034  Circumstances of SUDEPs: a Swedish nationwide population-based study of 329 cases
Olafur Sveinsson (Sweden)

0035  Inter-ictal cardiac repolarization abnormalities in people with epilepsy
Nirmeen Kishk, Egypt

Parallel Session
Room J

15:30 – 17:00  Use of intracranial recordings in pre-surgical assessment: Is it worth it?
Co-chairs: Jose Serratosa (Spain) & Antonio Valentin (United Kingdom)

SEEG versus subdural electrodes
Antonio Gil-Nagel (Spain)

Can neuroimaging replace chronic intracranial recordings?
Mar Carreño (Spain)

The additional value of electrical stimulation
Gonzalo Alarcon (Qatar)
Risks and costs of chronic intracranial recordings  
Beate Diehl (United Kingdom)

Video Session  
Congress Hall  
17:00 – 18:00  
**Seizures and epilepsies in children**

Seizures and epilepsies in children  
Ingrid Scheffer (Australia)

Seizures and epilepsies in children  
Sameer Zuberi (United Kingdom)

Ask the Experts  
Room A  
17:00 – 18:00  
**Women’s Issues**

Women's Issues  
Jacqueline French (USA)

Women's Issues  
Torbjörn Tomson (Sweden)

Platform Session  
Room H1  
17:00 – 18:00  
**Basic Sciences 2**  
*Chair: Jaideep Kapur (USA)*

0051  
An automated tool for reliable detection of seizures in rodent models of epilepsy  
Armen Sargsyan (Australia)

0052  
MMP-9 activity after traumatic brain injury as a risk for epilepsy development  
Barbara Pijet (Poland)

0053  
Neonatal electrographic seizures and behavioural impairment in mice with a genetic NaV1.2 channelopathy  
Walid Fazeli (Germany)  

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0054 The Mashl+/- knock-in mouse as a model for human SUDEP suitable to screen for potential anti-SUDEP agents
Elie Abdelnour (USA)

0055 Molecular variability of childhood and adult epileptogenesis: differences in miRNA profile of adult and infantile rats
Petra Bencurova (Czech Republic)

Debate
Room H2
17:00 – 18:00 Do the cognitive benefits of temporal lobe surgery outweigh the cognitive risks?

Do the cognitive benefits of temporal lobe surgery outweigh the cognitive risks? – PRO
Christoph Helmstaedter (Germany)

Do the cognitive benefits of temporal lobe surgery outweigh the cognitive risks? – CON
Pamela Thompson (United Kingdom)
Debate
Room F
17:00 – 18:00

**Is ictal scalp-EEG recording mandatory for epilepsy surgery?**

*Is ictal scalp-EEG recording mandatory for epilepsy surgery? – PRO*
Andreas Schulze-Bonhage (Germany)

*Is ictal scalp-EEG recording mandatory for epilepsy surgery? – CON*
Eugen Trinka (Austria)

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**Satellite Symposium**
Room J
18:00 – 19:30

Please see page 81 for details
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<td>Video Series - Paroxysmal Motor Phenomena: epilepsy or movement disorder?</td>
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<td>Precision Medicine in Epilepsy</td>
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<td>Precision Medicine: Harnessing the Power of Stem Cells</td>
<td>Infantile Spasms: State of the Art</td>
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<td>Video Session - Seizures and Epilepsies in Neonates</td>
<td>DEBATE - Are We Ready for Testing Interventions to Prevent SUDEP?</td>
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<td>VIREPA COURSE - ILAE Wikipedia project and other internet possibilities</td>
<td>EEG Course - Interactive, hands-on teaching session on applying high-density EEG electrode arrays, rapid scanning of the electrode positions and testing patients during seizure</td>
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<td>Interventions for cognitive dysfunction in epilepsy</td>
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<td>Cannabinoids in epilepsy: the new frontier of pharmacological treatment</td>
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<td>DEBATE - Will precision medicine in epilepsy require systematic genetic screening?</td>
<td>ASK THE EXPERT - Managing difficult cases of epilepsy in childhood</td>
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TUESDAY 5th SEPTEMBER

Teaching Session
Room A
08:00 – 09:30  Video Series

Paroxysmal Motor Phenomena: epilepsy or movement disorder?
Philippe Ryvlin (Switzerland)

Paroxysmal Motor Phenomena: epilepsy or movement disorder?
Paolo Tinuper (Italy)

Teaching Session
Room H1
08:00 – 09:30  Case Oriented Series

Epilepsy case management in resource limited settings
Angelina Kakooza (Uganda)

Epilepsy case management in resource limited settings
Gretchen Birbeck (Zambia)

Teaching Session
Room H2
08:00 – 09:30  Miscellaneous Series

Paediatric epilepsy surgery
Gary Mathern (USA)

Paediatric epilepsy surgery
Frans Leitjen (Netherlands)
Teaching Session
Room J
08:00 – 09:30  **VIREPA Course**

**ILAE Wikipedia project and other internet possibilities**
Kate Riney (Australia)

**ILAE Wikipedia project and other internet possibilities**
Sam Wiebe (Canada)

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Teaching Session
Press Room II
08:00 – 09:30  **EEG Course**

interactive, hands-on teaching session on applying high-density EEG electrode arrays, rapid scanning of the electrode positions and testing patients during seizures.
Sándor Beniczky (Denmark)
Christian Skaarup (Denmark)
Anders Bach Justesen (Denmark)

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Main Session
Congress Hall
09:30 – 11:30  **Precision medicine in epilepsy**

*Co-chairs: Shinichi Hirose (Japan) & Jack Parent (USA)*

**Precision medicine: what it is and what it isn’t**
Sam Wiebe (Canada)

**Improving therapeutics through precise diagnosis**
Jacqueline French (USA)

**Precision therapy through genomics, here and now**
Holger Lerche (Germany)

**Targeted therapy: *omics and new horizons**
Parthasarthy Satishchandra (India)

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**Main Session**
Room J

09:30 – 11:30  **Epileptic encephalopathies: Concept, treatment and outcome**  
*Co-chairs: Rima Nabbout (France) & Hari Bhathal (Spain)*

**The concept: use and misuse**  
Rima Nabbout (France)

**Does outcome depend on seizures and/or EEG discharges?**  
Federico Vigevano (Italy)

**Why aetiology matters**  
Mitsuhiro Kato (Japan)

**Individualised treatment: present and future**  
Dan Lowenstein (USA)

---

**Parallel Session**
Congress Hall

12:00 – 13:30  **Precision medicine: Harnessing the power of stem cells**  
*Co-chairs: Shinichi Hirose (Japan) & Jack Parent (USA)*

**The potential of stem cells in precision medicine**  
Shinichi Hirose (Japan)

**Modelling epilepsy using patient derived stem cells**  
Jack Parent (USA)

**Modelling epilepsy using genetically modified stem cells**  
Zhiyuan Li (China)

**Human 'mini brains' derived from stem cells**  
TBC
Parallel Session
Room A
12:00 – 13:30
**Infantile spasms: state of the art**
*Co-chairs: Monika Eisermann (France) & Sheffali Gulati (India)*

*Early diagnosis is key: can we do better?*
Monika Eisermann (France)

*Addressing aetiology: what is the optimal work up?*
Renzo Guerrini (Italy)

*Steroids: mechanisms of action and efficacy*
Li-Ping Zou (China)

*Treatment: towards practice consensus*
Katarzyna Kotulska-Jóźwiak (Poland)

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Parallel Session
Room H1
12:00 – 13:30
**Interventions for cognitive dysfunction in epilepsy**
*Co-chairs: Christoph Helmstaedter (Germany) & Pamela Thompson (United Kingdom)*

*Are our measurement tools appropriate?*
Christoph Helmstaedter (Germany)

*Early intervention in ASD and epilepsy*
Lisa Ouss (France)

*Cognitive rehabilitation after epilepsy surgery*
Pamela Thompson (United Kingdom)

*Interictal’ EEG discharges and cognitive dysfunction: investigations and management’*
Hal Blumenfeld (USA)
TUESDAY 5th SEPTEMBER

Parallel Session
Room H2
12:00 – 13:30  How to publish in ILAE Journals

How to publish in ILAE Journals
Astrid Nehlig (France)

How to publish in ILAE Journals
Michael Sperling (USA)

How to publish in ILAE Journals
Alexis Arzimanoglou (France)

How to publish in ILAE Journals
Aristea Galanopoulou (USA)

How to publish in ILAE Journals
Dieter Schmidt (Germany)

Parallel Session
Room F
12:00 – 13:30  Novel technologies to monitor and reduce seizure-related risks

Co-chairs: Jane Hanna (United Kingdom) & Torbjörn Tomson (Sweden)

Monitoring known SUDEP risk factors using novel technologies
Torbjörn Tomson (Sweden)

Identifying new SUDEP risk factors using novel technologies
Rainer Surges (Germany)

Novel technologies to prevent premature mortality
Daniel Friedman (USA)

Novel technologies to inform patients and families on seizure related risks
Jane Hanna (United Kingdom) & Rohit Shankar (United Kingdom)
Parallel Session
Room J
12:00 – 13:30 Cannabinoids in epilepsy: the new frontier of pharmacological treatment
Co-chairs: Vicente Villanueva (Spain) & Jaime Parra (Spain)
Cannabis: a historical perspective in the treatment of neurological disease
Hari Bhathal (Spain)
The endocannabinoid system, seizure and epilepsy
Istvan Katona (Hungary)
Results of clinical trial: do they match expectations?
Bruria Ben-Zeev (Israel)

Award Symposium
Room F
15:00 – 15:30 Epileptic Disorder Prize Award Symposium
Chair: Alexis Arzimanoglou (France)
Characteristic phasic evolution of convulsive seizure in PCDH19-related epilepsy
Hiroko Ikeda (Japan)

Platform Session
Congress Hall
15:30 – 16:30 Adult Epileptology
Chair: Dieter Schmidt (Germany)
0056 Seizure control after surgery for intracranial meningioma: a single centre cohort study
Hai Xue (China)
0057 High expression of cystine-glutamate antiporter xCT (SLC7A11) is an independent biomarker for epileptic seizures at diagnosis in glioma
Christoph Patrick Beier (Denmark)

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TUESDAY 5th SEPTEMBER

0058  Autoimmune epilepsy: key findings to identify a potentially treatable disease
       Sara Matricardi (Italy)

0059  Ictal vocalization in focal epilepsy
       Elisabeth Hartl (Germany)

0060  Utility of home videos for diagnosis of PNES
       Bhargavi Ramanujam (India)

Platform Session
Room A
15:30 – 16:30  Genetics 2
Chair: Gambardella Antonio (Italy)

0076  A comprehensive analysis of missense mutations in SCN1A in patients with Dravet syndrome improves interpretation of clinically relevant variants
       Marina Coelho Gonsales (Brazil)

0077  Somatic mutations are abundant in focal cortical dysplasia
       Iscia Lopes-Cendes (Brazil)

0078  Analysis of facial asymmetry and dysmorphism in epilepsy
       Simona Balestrini (United Kingdom)

0079  Mosaicism of de novo SCN1A mutations in epilepsy: an explanation for variable phenotypes?
       Iris de Lange (Netherlands)

0080  KCNB1 mutations are causing a neurodevelopmental disorder including epilepsy and autism
       Rikke S. Møller (Denmark)
Platform Session
Room H1
15:30 – 16:30  **Basic Sciences 3**  
*Co-chairs: Astrid Nehlig (France) & Ed Bertram (USA)*

0061  Lentivector-mediated potassium channel overexpression decreases focal cortical seizure frequency  
Robert Wykes (United Kingdom)

0062  Changes in synaptic expression of glutamatergic AMPA receptors in cortical inhibitory interneurons in a mouse model of absence epilepsy  
Nadia Kafui Adotevi (New Zealand)

0063  Comparison of miRNA expression profiles in rat model of epilepsy with human mTLE+HS patients  
Jiri Baloun (Czech Republic)

0064  Screening and targeting therapeutically epileptiform and behavioural phenotypes in rodent models of Angelman syndrome  
Anne Anderson (USA)

0065  The dynamics of the excitatory and inhibitory neural network during development and initiation of chemoconvulsant-induced cortical seizures  
Fadi Aeed (Israel)

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Platform Session
Room H2
15:30 – 16:30  **Epidemiology 2**  
*Co-chairs: Peter Wolf (Denmark) & Chahnez Charfi Triki (Tunisia)*

0066  Impact of comorbidities on risk for injuries and accidents in epilepsy: a prospective, population-based cohort study  
Benno Mahler (Sweden)

0067  Intervention strategy for the management of epilepsy in South-East Asia  
Farid Boumediene (France)
The Incidence and predictors of recurrence after first seizure in emergency department and outcomes: a retrospective study in an university hospital
Amika Praipanapong (Thailand)

Accidental deaths in people with epilepsy: a nationwide cohort study
Sebastian Ruge Møller (Denmark)

Status epilepticus in Auckland (New Zealand); a prospective, hospital-based incidence study
Peter S. Bergin (New Zealand)

Platform Session
Room F
15:30 – 16:30 Epilepsy Surgery 2
Co-chairs: Flavio Villani (Italy) & Jerome Engel (USA)

Fast ripples best define regional networks of epileptogenesis on paediatric intra-operative electrocorticographies
Joyce Y. Wu (USA)

SEEG evaluation and surgical outcome in refractory polymicrogyria-related epilepsy: a multicentric study
Georgia Ramantani (Switzerland)

SEEG-guided radiofrequency thermocoagulation for the treatment of intractable focal epilepsy Miguel Ley Nácher (Spain)

Focal cortical dysplasia type II: is MEG, multimodal neuronavigation and intraoperative MR imaging helpful for surgery?
Karl Roessler (Germany)

Can volumes of mesial temporal structures predict pre and post-laser ablation psychiatric comorbidities in patients with temporal lobe epilepsy?
Naymee Velez-Ruiz (USA)
32nd International Epilepsy Congress

Platform Session
Room J

15:30 – 16:30  Paediatric Epilepsies 2
Co-chairs: Ronit Pressler (United Kingdom) & Solomon L. Moshé (USA)

0081  Abnormal electrophysiological properties of A1783T mutation in SCN1A may cause SMEI
Yang Zeng (China)

0082  Long-term surgical outcome in paediatric patients with focal cortical dysplasia
Eva Martinez Lizana (Germany)

0083  Long-term safety and efficacy of intracerebroventricular enzyme replacement therapy with cerliponase alfa in children with CLN2 disease: interim results from an ongoing multicenter, multinational extension study
Nicola Specchio (Italy)

0084  High agreement in the evaluation of structural MRI characteristics in tuberous sclerosis complex
Hanna Mai Hulshof (Netherlands)

0085  Neuropsychological and behavioural disorders screening program in new-onset childhood epilepsies. Preliminary results using child behaviour checklist evaluation
Faustine Ilski Lecoanet (France)

Video Session
Congress Hall

17:00 – 18:00  Seizures and epilepsies in neonates

Seizures and epilepsies in neonates
Ronit Pressler (United Kingdom)

Seizures and epilepsies in neonates
Eli Mizzrahi (Sweden)
TUESDAY 5th SEPTEMBER

Debate
Room A
17:00 – 18:00  Are we ready for testing interventions to prevent SUDEP?

Are we ready for testing interventions to prevent SUDEP? PRO
Daniel Friedman (USA)

Are we ready for testing interventions to prevent SUDEP? CON
Torbjörn Tomson (Sweden)

Platform Session
Room H1
17:00 – 18:00  Clinical Neurophysiology 2
Co-chairs: Ivan Rektor (Czech Republic) & Akio Ikeda (Japan)

0086  Modulation of autonomic sympathetic activity reduces epileptic seizures: role of frontal cortex – amygdala functional connectivity
Yoko Nagai (United Kingdom)

0087  Prospective identification of fast ripples (FRs) helps define the spatial extent of the epileptogenic network
Hiroki Nariai (USA)

0088  Evidence of focality in infantile spasms as indicated by interhemispheric onset latency differences in ictal gamma and beta activity on EEG
Jules C. Beal (USA)

0089  EEG (ictal and inter-ictal) connectivity patterns and 3-D spike source analysis in focal epilepsy and its relation to nuclear medicine imaging
Alberto Pinzon (USA)

0090  Usefulness of automated EEG analysis to detect interictal epileptic activity in diagnostic EEG recordings: a study in 38 patients
Pieter van Mierlo (Belgium)
Debate
Room H2
17:00 – 18:00

*Will precision medicine in epilepsy require systematic genetic screening?*

**Will precision medicine in epilepsy require systematic genetic screening? PRO**
Norman Delanty (Ireland)

**Will precision medicine in epilepsy require systematic genetic screening? CON**
Jacqueline French (USA)

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**Ask the Experts**
Room F
17:00 – 18:00

**Managing difficult cases of epilepsy in childhood**

**Managing difficult cases of epilepsy in childhood**
Alexis Arzimanoglou (France)

**Managing difficult cases of epilepsy in childhood**
Rima Nabbout (France)

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**Satellite Symposium**
Room A
18:00 – 19:30

Please see page 81 for details
### SCIENTIFIC PROGRAMME INFORMATION

**WEDNESDAY 6th SEPTEMBER**

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<td>MISCELLANEOUS SERIES - Role of Diets in the management of epilepsy</td>
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<td>CASE ORIENTED SERIES - Psychiatric/Cognitive comorbidities</td>
<td>MISCELLANEOUS SERIES - Participation in drug studies: Do's and Don't's</td>
<td>VIREPA COURSE - ILAE Educational Portal &amp; Epileptic Disorders</td>
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### Wednesday, Sep 6

- **Understanding the nature of seizures**
- **Break**
- **Congress Highlights Session**
WEDNESDAY 6th SEPTEMBER

Teaching Session
Room A
08:00 – 09:00  Video Series

Testing during & after epileptic seizures
Walter van Emde Boas (Netherlands)

Teaching Session
Room H1
08:00 – 09:00  Case Oriented Series

Psychiatric/Cognitive comorbidities
Marco Mula (United Kingdom)

Psychiatric/Cognitive comorbidities
Pamela Thompson (United Kingdom)

Teaching Session
Room H2
08:00 – 09:00  Miscellaneous Series

Participation in drug studies: Do’s and Don’ts
Jacqueline French (USA)

Participation in drug studies: Do’s and Don’ts
Emilio Perucca (Italy)

Teaching Session
Room F
08:00 – 09:00  Miscellaneous Series

Role of diets in the management of epilepsy
Helen Cross (United Kingdom)

Role of diets in the management of epilepsy
Roberto Caraballo (Argentina)
Teaching Session
Room J
08:00 – 09:00  VIREPA Course
ILAE educational portal & Epileptic Disorders
Alexis Arzimanoglou (France)

Main Session
Room J
09:30 – 11:30  Understanding the nature of seizures
Co-chairs: Rafal Nowak (Spain) & Antonio Gil-Nagel (Spain)

All together now: epileptogenic networks dynamics
Ralph Andrzzejak (Spain)

Functional network analysis in epilepsy
Neils Focke (Germany)

Combining non-invasive techniques to characterise the epileptic networks
Eduardo M Castillo (USA)

Impact of epileptic networks on cognitive function
Vera Dinkelacker (France)

Congress Highlights Session
Room J
11:30 – 13:00  Congress Highlights Session
SATELLITE SYMPOSIUM

2.9.2017

Satellite Symposium
Room A
15:30 – 17:00
LIVANOVA: Heart, body & mind | Epilepsy and the autonomic nervous system
Chair: Richard Verrier, USA

Autonomic phenomena in people with epilepsy
Speaker: Brian D. Moseley, USA

T-wave alternans and cardiac pathology in epilepsy
Speaker: Richard Verrier, USA

SUDEP – The ultimate autonomic breakdown
Speaker: Rainer Surges, Germany

Satellite Symposium
Room F
15:30 – 17:00
GW PHARMACEUTICALS: Perspectives in early-onset epilepsies: patients, physicians and possibilities
Chair: Helen Cross, United Kingdom
Co-Chair: Hari Bhathal, Spain

Early-onset epilepsies: the patient perspective
Speaker: Isabella Brambilla, Italy

Early-onset epilepsies: the societal perspective
Speaker: Sameer Zuberi, United Kingdom

Early-onset epilepsies: the clinical perspective
Speaker: Victoria San Antonio-Arce, Spain

Panel Discussion and Audience Q&A
3.9.2017

**Satellite Symposium**
Room F
08:00 – 09:30  **ELEKTA: Source localization and network analysis with MEG and EEG**  
*Chair: Paul Boon, Belgium*

**MEG and EEG source localization**  
Speaker: Evelien Carette, Belgium

**Networks and clinical implications**  
Speaker: Hermann Stefan, Germany

**MEG in clinical use, experiences in Spain**  
Speaker: Leonides Canuet Delis, Spain

**Satellite Symposium**
Room A
16:30 – 18:00  **ZOGENIX: Recognising the burdens of dravet syndrome: co-morbidities, mortality, SUDEP**  
*Chair: Lieven Lagae, Belgium*

**Chairman’s Introduction**  
Speaker: Lieven Lagae, Belgium

**Dravet Syndrome: Impact beyond seizures**  
Speaker: Alexis Arzimanoglou, France

**Co-morbidities: Real life insights**  
Speaker: Lieven Lagae, Belgium

**The burdens: Current challenges**  
Speaker: Ley Sander, United Kingdom

**Panel Discussion**
BIOMARIN: A time critical genetic epilepsy – new data for diagnosing and managing children with CLN2 disease
Chair: Angela Schulz, Germany

A new era for CLN2 disease: Natural history and new data for clinical management
Speaker: Angela Schulz, Germany

Epilepsy neurogenetics: earlier diagnosis of CLN2 disease in clinical practice
Speaker: Raman Sankar, USA

EEG and clinical clues: Identifying CLN2 disease within early-onset myoclonic epilepsies
Speaker: Nicola Specchio, Italy

Discussion: Minimising diagnostic delay in CLN2

EISAI: Mechanisms behind tumour growth and epileptic activity in brain tumours; discussion of the AMPA receptor pathway and clinical implications
Co-Chairs: Matthew Walker, United Kingdom & Riccardo Soffietti, Italy

Can we be better at treating seizures in patients with brain tumour-related epilepsy?
Speaker: Gilles Huberfeld, France

Why do we need to understand the glutamatergic mechanisms in brain tumour-related epilepsy?
Speaker: Mark Cunningham, United Kingdom

It's time to conduct brain tumour-related epilepsy trials!
Speaker: Terence O'Brien, Australia
4.9.2017

**Satellite Symposium**
Room H2

**08:00 – 09:30**  
**MEDTRONIC:** Advancing treatment options for drug-resistant epilepsy patients MRI-guided laser ablation and deep brain stimulation

**Satellite Symposium**
Room J

**18:00 – 19:30**  
**GW PHARMACEUTICALS:** Moving on: Patients with early-onset epilepsies and the transition to adult care

*Chair: Antonio Gil-Nagel, Spain*

**Anything but child’s play: Early-onset epilepsies**
Speaker: Nicola Specchio, Italy

**Challenges faced by adult epileptologists: Transitioning patients with early-onset epilepsies**
Speaker: Bernhard J. Steinhoff, Germany

**Taking the first step: Models of care for transitional services**
Speaker: Rima Nabbout, France

Panel Discussion and Audience Q&A

5.9.2017

**Satellite Symposium**
Room J

**18:00 – 19:30**  
**EISAI-BIAL:** Optimising epilepsy therapy: trials, tribulations, evidence and experience... Do we really know our AEDs?

*Chair: Rob McMurray, United Kingdom*

**Introduction to AED trial programs**
Speaker: Martin Holtkamp, Germany

**Robust clinical trial programs give us the best insight into our AEDs**
Speaker: Mar Carreño, Spain

**Real world studies give us the best insight into our AEDs**
Speaker: Vicente Villanueva, Spain
GENERAL INFORMATION

The Poster Area is situated on Level –1 of the congress centre. Posters are on display here from 10:30 to 17:30, with different posters presented each day (Sunday 3rd to Tuesday 5th September).

Presenters must set up their posters between 09:30 and 10:30 and materials will be provided for affixing posters to the poster boards. The posters must be removed between 17:30 and 18:30 and please note that the 32nd IEC does not take any responsibility for unclaimed posters.

The Scientific and Organising Committee has chosen to organise guided poster tours, led by experts in the field, during the lunch break, giving researchers the opportunity to present their work during the congress. Presenters will be available at their posters on their assigned day. Each presenter shall be given few minutes to outline their findings and answer questions.

The poster abstracts are available on the 32nd IEC website www.epilepsybarcelona2017.org and in the interactive session planner. They will also be published subject to editorial review in an online supplement of Epilepsia post congress.

Delegates can search for abstracts by keywords and access the full papers on the congress app which can be downloaded from the App Store.

BEST ABSTRACTS

Best Abstract Contribution

A number of posters have been selected by the Scientific and Organising Committee to receive a Best Abstract Contribution notification. The best abstract recognition was based on the merit and special interest of the abstract content.

The Best Abstract Contribution will be identified with a rosette which will be placed on the poster board.
Best Abstract Contribution Abstracts

Adult Epileptology


561 Audit of epilepsy healthcare provision in a large UK category B prison. Thomasson, Coyle, Reynolds, Lees, Partington, Cooper.

617 Neuronal autoantibodies are infrequently associated with mesial temporal lobe epilepsy with hippocampal sclerosis Nobrega-Jr AW1, Gregory, Schindwein-Zanini, Wolf, Steindel, Lin

786 Juvenile Myoclonic Epilepsy: Long-term prognosis and treatment withdrawal. Viloria Alebesque, Bellosta Diago, Santos Lasaosa, Mauri Llerda.

803 Seizure semiology versus subjectivity: a linguistic approach to understanding focal aware seizures. Sanchez-Davies.

1456 The modified Atkins diet in patients with refractory epilepsy and intellectual disability – a randomized controlled trial. Hulshof, Jansen, Braun, Carpay.

Basic Sciences

780 Online hydrogen peroxide measurement during oxidative stress generated by seizure activity using a high temporal resolution.
Pardo-Peña, Sanchez-Lira, Morales-Villagráin.

865 AMPA receptor antagonism in mitochondrial epilepsy: a potential therapeutic target?
Chan F1, Skeen A1, Lax N2, Turnbull D2, Cunningham M1

1050 Different mossy fiber sprouting patterns in ILAE hippocampal sclerosis types.
Schmeiser, Li, Brandt, Zentner, Doostkam, Freiman.

1181 Perivascular PDGFR cells participate to inflammation during in vivo epileptogenesis and in vitro ictogenesis.
Klement, Runtz, Girard, Fayd‘herbe, Smith, Morin-Brureau, Bertaso, De Bock, Marchi.

Clinical Neurophysiology

242 A systematic review on diagnostic accuracy and clinical value of non-invasive long-term video-EEG monitoring in pre-surgical evaluation of patients with epilepsy.
Kobulashvili, Kuchukhidze, Brigo, Zimmermann, Höfler, Leitinger, Dobesberger, Kalss, Rohracher, Neuray, Wakonig, Ernst, Trinka.

376 DIAGNOSIS OF EPILEPTIC ACTIVITY ACCORDING EEG COHERENCE.
Dokukina, Misyuk, Makhrov, Khlebokazov, Korolevich, Marchuk.

396 Pattern of ictal intracerebral EEG at the start of alteration of consciousness.
Campora, Kochen.
571 Tracking heart rate changes during seizures: a national study using ResearchKit and Apple Watch to collect biosensor and response data during seizures.
Carmenate, Gonzalez, Ge, Collard, Lee, Crone, Krauss.

591 Interictal very fast ripples (500-1000 Hz) and ultrafast ripples (1-2 kHz): Novel biomarkers of the epileptogenic zone.

742 Non-contact video detection of tonic-clonic seizures in a residential care setting.
Geertsema, Gutter, Vledder, Arends, Leijten, Thijs, Visser, Kalitzin.

948 A study of praxis-induced seizures in Juvenile Myoclonic Epilepsy.
Abarrategui, Rodrigues De Marchi, Zetahaku, Torres Corso, Visona Figueiredo, Guaranha, Yacubian.

1071 Seizure onset zone connectivity during wakefulness and sleep studied through single pulse electrical stimulation during SEEG recordings
Arbune, Mindruta, Mihai Dragos, Popa, Ene, Ciurea, Barborica.

1076 Exploring cardiac autonomic functions in eating epilepsy
Sathyaprabha, Meghana, Jaideep, Prathyusha, Sinha, Satishchandra.
POSTERS


1297 Alternative seizure provoking techniques at the Epilepsy Monitoring Unit Palm. Eriksen, Dunkan, Olsen, Mæhl, Lundgren Hansen, Beniczky, Gardella.

1446 Duration of Tachycardia in the Post-ictal period. Scott, Allen, Valente, Cuarentas, Diehl.

1567 Déjà-rêvé (already dreamed) induced by electrical brain stimulation. Curot, Valton, Denuelle, Busigny, Vignal, Maillard, Pariente, Trébuchon, Bartolomei, Barbeau.

Comorbidities


Drug Therapy

3 THE ACTUAL MECHANISM BY WHICH PHENYTOIN DISPLAYS MICHAELIS-MENTEN KINETICS. Fagiolino, Vázquez, Ibarra, Alvariza, Maldonado.
227 Antiepileptic drug withdrawal for terminal remission in patients with epilepsy in the general population.  
Giussani, Bianchi, Erba, Sander, Beghi, EPIRES Study Group.

525 Treatment with cannabidiol (CBD) significantly reduces drop seizure frequency in Lennox-Gastaut syndrome (LGS): results of a multi-centre, randomised, double-blind, placebo-controlled trial (GWPCARE4).  
Mazurkiewicz-Beldzinska, Thiele, Benbadis, Marsh, Joshi, French, Roberts, Taylor, Sommerville.

588 Cannabidiol (CBD) in Dravet syndrome: A randomised, dose-ranging pharmacokinetics and safety trial (GWPCARE1).  
Wright, Devinsky, Thiele, Wong, Appleton, Patel, Harden, Sommerville, Greenwood, Morrison.

640 Impact of everolimus treatment on quality of life (QoL) in patients with tuberous sclerosis complex (TSC) who have refractory partial-onset seizures in the context of an interventional clinical trial (EXIST-3).  

929 Perampanel in routine clinical use across Europe: pooled observational studies.  
Use of eslicarbazepine in children and adolescents with refractory epilepsy at two National Epilepsy Centres, Denmark and Norway.

Baftiu, Burns, Nikaronova, Ramm-Pettersen, Rasmussen, Johannessen, Landmark.

Real-world effectiveness and tolerability of eslicarbazepine acetate in patients receiving versus not receiving other sodium-channel blockers.

Lawthom, Sales, McMurray, Villanueva.

Prevalence, Characteristics and Patterns of Drug Resistant Epilepsy in A Cohort of Adult Epilepsy Patients with Focal Onset Seizures.


A National Profile of Neurodevelopmental Disabilities in Canadian Children: Data from the National Longitudinal Study of Children and Youth.

Prasad, Corbett.

Premature mortality in persons with epilepsy and schizophrenia – a nationwide cohort study.

Maul Andersen, Petersen, Vestergaard, Bøcker Pedersen, Christensen.
Epilepsy in severely resource-restricted settings

158 The Role of Trained Community Health Volunteer in Improving Adherence in Children with Epilepsy in Rural Kenya. MARAGA.

748 Quality of carbamazepine in resource-limited settings: ancillary results from the QUAEDAf (Quality of Antiepileptic Drugs in sub-Saharan Africa) study. Jost, Nguyen, Ratsimbazafy, Auditeau, Raharivelo, Newton, Dufat, Preux.

Epilepsy in the elderly


Epilepsy Surgery


947 High frequency oscillations in tumour related epilepsy. van Klink, Zweiphenning, Miller, Aronica, Braun, Zijlmans.

979 SEEG-guided radiofrequency thermocoagulation for the treatment of intractable focal epilepsy.
Ley Nácher, Alessandro, Álvaro, Tauste, Rocamora.

1077 Stereo electroencephalography-guided radiofrequency thermocoagulation in drug-resistant focal epilepsy: a new paediatric technique to guide the surgery.

Chipaux, Ferrand-Sorbets, Fohlen, Dorison, Taussig, Dorfmuller.

1390 Atypical Presentation of Rasmussen’s Encephalitis: A Case Series.

Reyes Valenzuela, Princich, Gutierrez, Lizama, Beltrán, Massaro Sánchez, Bartuluchi, Lubieniecki, Caraballo.

Genetics

775 The identification for pharmacogenetic biomarkers in the treatment of epilepsy.

1304 GENETIC HETEROGENEITY OF SLEEP RELATED HYPERMOTOR EPILEPSY (SHE).
Bisulli, Licchetta, Baldassari, Provini, Plazzi, Santucci, Vignatelli, Zenisi, Scheffer, Berkovic, Pippucci, Tinuper, LICE (Italian League against Epilepsy) Genetic Study Group.

1326 Targeted next generation sequencing as a diagnostic tool in 644 childhood epilepsy patients and transmission of variants from mosaic parents.
Larsen, Hao, Kako, Olofsson, Mirand, Kinali, Borggräfe, Svaneby, Nielsen, Lavard, Uldall, Talvik, Talvik, Fusco, Spagnoli, Frangu, Born,


**Neuroimaging**

212 A Multimodal Neuroimaging Study of Psychosis of Epilepsy (POE).

Allebone, Wilson, Kanaan.

287 The added value of high-field MRI at 7T for pre-surgical evaluation of drug-resistant epilepsy.
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<td>EpiJET: First commercially available automated injector for ictal SPECT.</td>
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<td>Whole-brain structural connectome disruptions in temporal lobe epilepsy: relation to hippocampal pathology</td>
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1542 Poorly controlled seizures disrupt resting state networks in patients with generalized epilepsies
Garcia, Alvim, Polydoro, Ishikawa, Montanher, Campos, Morita, Cendes, Yasuda.

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1452 Development and validation of Ictal Cognitive Testing and Localization (ICTAL): an individualised hypothesis-testing tablet based neuropsychological test program to evaluate cognitive deficits during ictal EEG abnormalities, Wada-testing, intracranial EEG recordings and awake surgery.
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Pérez-Enríquez, Manero, Peña-Casanova, Principe, Ley-Nacher, Delgado-Martinez, Conesa, Rocamora.

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1318 Ventral anterior cingulate gyrus: integration of body position and complex motor responses 
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274 DECREASED ALLOPREGNANOLONE LEVELS IN CEREBROSPINAL FLUID OF PATIENTS WITH STATUS EPILEPTICUS.
Monti, Giovannini, Lucchi, Bedin, Trenti, Rustichelli, Biagini, Meletti.
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1553 Re-evaluation of the Critically Ill Patients with Non-convulsive Status Epilepticus by Using Salzburg Consensus Criteria. Gungor Tuncer, Altindag, Nalbantoglu, Acik, Tavukcu Ozkan, Baykan.

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240 Factors affecting the number of oligodendrocytes in human temporal lobe epilepsy: a clinicopathological study.
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561 Audit of epilepsy healthcare provision in a large UK category B prison.
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617 Neuronal autoantibodies are infrequently associated with mesial temporal lobe epilepsy with hippocampal sclerosis
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786 Juvenile Myoclonic Epilepsy: Long-term prognosis and treatment withdrawal.
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780 Online hydrogen peroxide measurement during oxidative stress generated by seizure activity using a high temporal resolution

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### EXHIBITORS LIST

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EXHIBITION FLOOR PLANS

Exhibition Opening Hours

Sunday 3rd September 2017: 09.00 – 16.30
Monday 4th September 2017: 09.00 – 16.30
Tuesday 5th September 2017: 09.00 – 16.30

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MRI-Guided Laser Ablation and Deep Brain Stimulation.

VISUALASE™ MRI-Guided Laser Ablation is pending CE mark

4 September 2017
08:00-09:30
Room: H2 (level -1)

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Treat them like family!
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✓ Fewer Seizures
✓ Shorter Seizures
✓ Faster Recovery
✓ Decreased Seizure Severity
✓ Fewer Medications
✓ Improved Alertness, Mood and Memory
✓ Improved Quality of Life

VNS THERAPY EUROPEAN INDICATION FOR USE
VNS Therapy is indicated for use as an adjunctive therapy in reducing the frequency of seizures in patients whose epileptic disorder is dominated by partial seizures (with or without secondary generalization) or generalized seizures that are refractory to seizure medications. The Model 106 AspireSR® (Seizure Response) features the Automatic Stimulation Mode, which is intended for patients who experience seizures that are associated with cardiac rhythm increases known as ictal tachycardia.

CONTRAINDICATIONS: The VNS Therapy system cannot be used in patients after a bilateral or left cervical vagotomy. Do not use short-wave diathermy, microwave diathermy, or therapeutic ultrasound diathermy on patients implanted with the VNS Therapy system. Diagnostic ultrasound is not included in this contraindication. Cardiac arrhythmia (Model 106 only)–The AutoStim Mode feature should not be used in patients with clinically meaningful arrhythmias or who are using treatments that interfere with normal intrinsic heart rate responses.

WARNINGS: Physicians should inform patients about all potential risks and adverse events discussed in the VNS Therapy Physician Manuals, including information that VNS Therapy may not be a cure for epilepsy. Since seizures may occur unexpectedly, patients should consult with a physician before engaging in unsupervised activities, such as driving, swimming, and bathing, or in strenuous sports that could harm them or others. A malfunction of the VNS Therapy system could cause painful or direct current stimulation, which could result in nerve damage. Removal or replacement of the VNS Therapy system requires an additional surgical procedure. Patients who have pre-existing swallowing, cardiac, or respiratory difficulties (including, but not limited to, obstructive sleep apnea and chronic pulmonary disease) should discuss with their physicians whether VNS Therapy is appropriate for them since there is the possibility that stimulation might worsen their condition. Postoperative bradycardia can occur among patients with certain underlying cardiac arrhythmias. MRI can be safely performed; however, special equipment and procedures must be used.

ADVERSE EVENTS: The most commonly reported side effects from stimulation include hoarseness (voice alteration), paresthesia (prickling feeling in the skin), dyspnea (shortness of breath), sore throat and increased coughing. The most commonly reported side effect from the implant procedure is infection.

*L The information contained here represents partial excerpts of important prescribing information from the product labeling. Patients should discuss the risks and benefits of VNS Therapy with their healthcare provider. Visit www.VNSTherapy.com for more information.

IEC2017VNSAd17E1
LIVANOVA BELGIUM NV
Ikaroslaan 83
1930 Zaventem
Belgium
Tel: +32.2.720.95.93
Fax: +32.2.720.60.53
www.VNSTherapy.com

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