MEDTRONIC ANNOUNCES
THE WORLD’S FIRST AND ONLY
FULL-BODY MR CONDITIONAL
DBS SYSTEMS*

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* Medtronic DBS systems are MR Conditional, indicating they are safe in the MR environment as long as certain conditions are met. Read and fully understand the MR Guidelines for Medtronic deep brain stimulation systems before conducting an MR examination. For answers, medtronic.com/mr or contact Medtronic at 1-800-787-2033 for a copy. Also review current MR manufacturer labeling before conducting the MRI.

Important safety information is available at the Medtronic exhibit booth.
Dear Colleagues,

It is a great pleasure to welcome you to the 16th European Congress of Clinical Neurophysiology (ECCN2017), and to Budapest, one of the most beautiful cities in the world.

The Congress features highly respected speakers who will share and discuss significant new developments that will have impact on the future of Clinical Neurophysiology. With attendees and experts from more than 40 countries around the world, the Congress will provide an ideal forum not only for the presentation of new science, but also for unique networking opportunities. We encourage you to participate in the discussions and hope the Congress helps in the exchange of information and development of new collaborations.

The program of ECCN2017 with 9 plenary lectures, 27 symposia, 19 teaching courses and hands-on sessions addresses a broad range of topics including epilepsy, sleep, pain, cognition, memory, dementia, ageing, peripheral nervous system, experimental neuroscience, movement disorders, disorders of the cerebellum and brainstem, autonomic symptoms, headache, neuroplasticity, etc.

Budapest is seen as the most vibrant and most exciting city of the region at the crossroads of different cultures. Do not miss the beautiful panorama on the Danube, the historical churches and monuments, or bracing baths! Budapest, with its various cultural and entertaining programs, is an ideal place not only for great scientific events, but also for recreation at the end of the summer.

Finally, we would like to take this opportunity to thank all members of the International Organising Committee, and representatives of the national neurophysiological societies, as well as the staff of the congress office, for their help with the careful planning of ECCN2017 in Budapest. Although, the congress will be over in four short days, it has been more than three years in the making, and it could not have happened without their help.

We welcome you to an inspiring educational and stimulating professional program.

Prof. Dr. Anita Kamondi  
Convenor  
ECCN2017 Budapest

Prof. Dr. Walter Paulus  
Chair  
EC-IFCN

Prof. Dr. Jonathan Cole  
Secretary/Treasurer  
EC-IFCN
Patrons

Zoltán Ónodi-Szűcs
Minister of State for Health
Ministry for Human Capacities

István Tarlós
Mayor of the City of Budapest

International Organising Committee

Ann Ali Abdel Kader (Egypt)
Karim Båtelson (Sweden)
Jonathan Cole (UK)
Sean Connolly (Ireland)
João Costa (Portugal)
Nathan Gadot (Israel)
António Garcia Garcia (Spain)
Douglas Hägerström (Sweden)
Farquad Hamdan (Iraq)
Tihomir Ilić (Serbia)
Satu Jääskeläinen (Finland)
Mika Kallio (Finland)
Jan Kremlacek (Czech Republic)
Marie-Dominique Lamblin (France)
Pál Larsson (Norway)
Letizia Leocani (Italy)
Tudor Lupescu (Romania)
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António Martins da Silva (Portugal)
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Walter Paulus (Germany)
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Alfons Schnitzler (Germany)
Antonino Uncini (Italy)
Beneditte Wanscher (Denmark)
Vildan Yayla (Turkey)
Ulf Ziemann (Germany)

IFCN European Chapter Board

Walter Paulus Chair
Jonathan Cole Secretary and Treasurer
Ivan Rektor Mai
Antonio Martins da Silva Mai
Paolo Maria Rossini Liaison member of IFCN

Local Organising Committee

Anita Kamondi Chair, President of HSCN
János Annus
István Fekete
Béla Clemens
István Kondákor
Péter Rajna
Mária Várszegi (assistant)
András Fogarasi
András Horváth
Andrea Kovács
Zoltán Nusser
Mihály Szabó
Imre Szirmai

Host
Hungarian Society of Clinical Neurophysiology
Professor Dr. Anita Kamondi
President of HSCN
National Institute of Clinical Neurosciences
H-1145 Budapest, Amerikai ut 57.
Email: eccn2017hungary@gmail.com

Congress Organiser
CongressLine Ltd.
H-1065 Budapest, Révay köz 2.
Phone: +36 1 429 0146
Fax: +36 1 429 0147
www.congressline.hu

Registration: Tamas Krasznai, office@congressline.hu
Abstract handling: Melinda Papp-Vid, pappvid@congressline.hu
Industry: Sandra Vamos, vamos@congressline.hu
Congress date
Wednesday, 30 August – Saturday, 2 September, 2017

Congress venue
Budapest Marriott Hotel
H-1052 Budapest, Apáczai Csere János str. 4.
www.marriott.com

Access by public transportation
Budapest Marriott Hotel is located in the heart of the city next to the Danube river (Pest side), about 5 minutes walk from Deák Ferenc tér.
The Budapest Marriott Hotel can be reached directly by Tram No. 2. From Deák Ferenc tér the venue can be reached by metro (underground) line M1, M2, M3, trams 47, 49, buses 9, 16, 100E, 105 and trolley bus 72. The closest metro station (line M1) is Vörösmarty tér (3 minutes walk).

Parking
The ECCN2017 Congress venue is situated in the very downtown (mostly pedestrian) area of Budapest. Parking is very limited and very expensive. The organisers exclude any responsibility for any penalty resulting from illegal parking. Guests arriving by car can use the V1 Garage (1051 Budapest, Vörösmarty tér 1.), drive in/out from Apáczai Csere János utca towards Deák Ferenc utca. http://boe-parking.hu/vorosmarty-garazs/
Rates: 500 HUF / hour, 5000 HUF / daily

Internet
Free Wi-Fi service is available at the congress venue.

Venues OUTSIDE of congress venue (Teaching Course 16 and 9)

TC16 – EXPERIMENTAL ELECTROPHYSIOLOGY, OPTOGENETICS AND CELLULAR IMAGING
Institute of Experimental Medicine, Hungarian Academy of Sciences
Address: 1083 Budapest, Szigony street 43
30 August, Wednesday, 11:00-15:00
Meeting point: 10.50 at the TC venue (address above)

How to reach by public transportation: Take metro line M3 from Deák Ferenc tér to Klinikák metro station. The Institute is right to the left as you leave the station building.

TC9 – INTRAOPERATIVE NEUROMONITORING IN THE NEUROSURGICAL PRACTICE II. – LIVE SURGERY BROADCAST FROM THE OPERATING ROOM
National Institute of Clinical Neurosciences
Address: 1145 Budapest, Laky Adolf street 44-46.
1 September, Friday, 07:30 – 11:30
Meeting point: 07:20 at the TC venue (address above)

How to reach by public transportation: the Institute can be entered through the main entrance at 1145 Budapest, Laky Adolf street 44-46. Take metro line M1 from Vörösmarty tér to Mexikói út and here change to tram No 3 or 69 to Laky Adolf street (3 stops). The main entrance is about 100 m walk.

Language
The official language of the Congress is English. No translation will be provided.

CME
The 16th European Congress of Clinical Neurophysiology, (Budapest, Hungary, 30/08/2017-02/09/2017) has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with 22 European CME credits (ECMEC®). Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.

Speakers technical information

Speakers’ Lounge
Presentations must be submitted to the technical support team in the Speakers’ Lounge at least 2 hours prior to your scheduled presentation or the day before your presentation if the talk is scheduled for the morning sessions.
Please prepare your presentation in .ppt, .pptx (Microsoft Office PowerPoint 2003-2017 format). Please avoid using videos embedded in your show. If you have a video, please test it in the Speakers’ Lounge after submitting or contact the technician in the lecture hall latest in the break before your presentation (but preferably earlier) to test it in advance.
Please note, you will not be able to use your own laptop for your presentation.

Program
Every endeavour has been made to produce an accurate program. If you are presenting at the Congress, please confirm your presentation time as contained in this program at the Speakers’ Lounge.

Abstract publication
Abstracts will be published on-line in the journal Clinical Neurophysiology Volume September 2017.

Program changes
Due to unforeseen circumstances, the organisers cannot assume liability for any changes in the scientific program. Organisers will do their best to keep the participants up to date, possible changes in the program will be immediately communicated.

Posters technical information

POSTER SESSION I.
Thursday, 31 August 2017
Poster set-up 07:30 – 08:00 Thursday, 31 August
Poster viewing 11:45 – 12:45 Thursday, 31 August
Poster removal 18:45 – 19:00 Thursday, 31 August

Budapest Ballroom
Brain Stimulation I. (P215 – 226)
Peripheral nerve ultrasound examinations (P227 – 231)
CN in the diagnosis and treatment of paediatric disorders (P232 – 237)
Functional connectivity (P238 – 243)
Neuropathology of sensory systems (P244 – 250)
General information

ECCN2017

Practical tips for trainees - educational lecture series
ExCo EC-IFCN is keen to promote work towards an European Curriculum and an Exit Exam. It also has been keen for Congresses to consider training and practice as well as research and academic advances. Though many lectures in the ECCN do this, ExCo has also organised – for the first time – this series which concentrates on basic element of our practice for trainees. We hope this will develop in future Congresses, as the curriculum and exam evolve.

Registration Desk
The Registration Desk will be open at Budapest Marriott Hotel Lobby
Wednesday, 30 August 2017 07:30 – 20:00
Thursday, 31 August 2017 07:00 – 19:00
Friday, 1 September 2017 07:00 – 19:00
Saturday, 2 September 2017 08:00 – 11:00

Exhibition opening hours
Wednesday, 30 August, 2017 11:00 – 19:00
Thursday, 31 August, 2017 08:30 – 19:00
Friday, 1 September 2017 08:30 – 19:00
Saturday, 2 September 2017 08:30 – 13:00

Hotline to the registration desk and exhibition management
+36 70/608-6806

Registration fees

<table>
<thead>
<tr>
<th>Registration types</th>
<th>Regular after 31 May, 2017</th>
<th>On-site</th>
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<tbody>
<tr>
<td>ECCN participants</td>
<td>490 Euro</td>
<td>550 Euro</td>
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<tr>
<td>Young participants (age under 35)</td>
<td>280 Euro</td>
<td>320 Euro</td>
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<tr>
<td>Assistants/technicians</td>
<td>280 Euro</td>
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<tr>
<td>Accompanying persons</td>
<td>150 Euro</td>
<td>150 Euro</td>
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<tr>
<td>Exhibitors</td>
<td>420 Euro</td>
<td>420 Euro</td>
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<tr>
<td>Educational course</td>
<td>60 Euro</td>
<td>60 Euro</td>
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</tbody>
</table>

Registration fees are indicated in EUR, per person and including 27% VAT and 71 EUR mediated catering service.

Registration fees include
- Admission to the Scientific sessions, Exhibition and Poster area - Congress bag, Final program - Coffee-breaks
- Admission to the Opening ceremony and Welcome reception

Accompanying Person’s fee includes
- Sightseeing tour with lunch at Grand Market Hall - Admission to the Opening ceremony and Welcome reception - Tour bag

Coffee Breaks
Coffee, tea and refreshments will be available during coffee breaks.

Congress Bags
Congress bags are provided for all registered participants. Please do not put personal belongings (money, ID Cards, mobile phones) in the Congress Bags, since hundreds of similar bags will be around the congress venue, and they could be easily confused. Please mark your name and contact details clearly on your bag.

General information
Badges
Identification badges are provided along with other congress materials upon registration. For security purposes, delegates, speakers, sponsors and exhibitors are asked to wear their name badges all times during the congress. Please also note that your congress badge assures your entrance to congress premises and catering. Entrance into sessions is restricted for registered delegates only. The identification badges are also helpful when contacting the secretariat and other participants. If you misplace your name badge, please go to the Registration Desk to arrange a replacement.

Official congress hotels
1. Budapest Marriott Hotel – Congress venue H-1052 Budapest, Apáczai Csere János u. 4.
3. La Prima Fashion Hotel Budapest H-1052 Budapest, Piarista u. 6.
6. Promenade City Hotel H-1052 Budapest, Váci utca 22.
10. Hotel Erzsébet City Center H-1053 Budapest, Károlyi Mihály u. 11-15.

Welcome reception
Wednesday, 30 August 2017, 19.00 – 21.00
Price: included in registration/accompanying person fee
Venue: on site, in Budapest Marriott Hotel (H-1052 Budapest, Apáczai Csere János str. 4)
The organisers greet the attendees of ECCN2017 with a cocktail reception. Celebrate and network with your colleagues and the keynote speakers at the complimentary Welcome Reception.

ECCN farewell dinner & danube cruise (optional)
Friday, 1 September 2017, 20.00-23.00
Price: 75 EUR/person
Meeting point and departure: at 19.45 from Vigadó Port 8
Boat name: Ludwig
During this evening sightseeing tour on the River Danube, you will be welcomed with a drink and enjoy a light dinner served on the boat. During dinner a Hungarian jazz band plays the classics. The boat travels from Margaret Bridge, past the National Theatre and along the Palace of Arts, a truly unique way to enjoy the glittering sites of illuminated Budapest.

Tours
Sightseeing tour
Wednesday, 30 August 2017, 10.00 – 14.00
Price: 35 EUR/person (Minimum number of participants: 15)
This tour is included in accompanying people’s program!
Departure: at 10.00 from Budapest Marriott Hotel (Congress Venue)

Let us show you the main attractions on both sides of the River Danube. Walk around the Castle District, enjoy the view from the Citadel and see the top attractions of Pest. The Central Market is a must-see for anyone who love fresh goods, shopping, or just sightseeing in amazing places.
**The Jewish Sights of Budapest**  
**Thursday, 31 August 2017, 10.00 – 14.00**  
**Price:** 35 EUR/person (Minimum number of participants: 15)  
**Departure:** at 10.00 from Budapest Marriott Hotel (Congress Venue)

A four-hour long walking tour in the Synagogue and its surroundings including an inside visit of the Synagogue complex (Jewish Museum, ghetto and World War II area history). The tour will show the rich past of the historical Jewish quarter.

**Pub Crawl**  
**Thursday, 31 August 2017, 20.00 – 24.00**  
**Price:** 30 EUR/person (Minimum number of participants: 15)  
**Departure:** at 20.00 from Budapest Marriott Hotel (Congress Venue)

Join us for one of the most unique Budapest experiences, a visit to the famous ‘ruin pubs’ full of retro decor, strange furniture, and looping art house cinema.

**Budapest Bath Tour – Széchenyi Bath**  
**Friday, 1 September 2017, 10.00 – 14.00**  
**Price:** 35 EUR/person (Minimum number of participants: 15)  
**Departure:** at 10.00 from Budapest Marriott Hotel (Congress Venue)

Széchenyi Spa Baths is one of the best and largest spa baths in Europe with its 15 indoor baths and 3 grand outdoor pools. The bath was built in 1913 in Neo-baroque style and is named after István Széchenyi, a 19th century Hungarian politician, theorist and writer.

**Danube Bend Tour (Szentendre – Artists’ Village, Visegrád)**  
**Saturday, 2 September 2017, 13.30 – 20.00**  
**Price:** 65 Euro / person (minimum number of participants: 15)  
**Departure:** at 13.30 from Budapest Marriott Hotel (Congress Venue)

The half-day program includes visiting the picturesque Visegrád in the Danube Bend, which was the seat of the Hungarian King since medieval times, exploring the ruins of the 750 years old Royal Palace and the medieval fortress. On the way back to Budapest, we stop at Szentendre, which is a small charming art village on the Danube bank, 10 km from the North of Budapest.
**Recommended taxi company**
To reach the hotels or the congress venue and to avoid any inconvenience, please use the official ECCN2017 taxi company:

*City Taxi*
Phone: +36 1 211 1111
www.citytaxi.hu

Credit card payment is available in every car of City Taxi.
Please note, that all licensed Budapest taxi companies have yellow cars and has the same rates, placed clearly visible on the screens. Airport – Marriott route fares should be around 7000-9000 HUF.

**Currency**
The Forint (HUF), the official national currency, is convertible. The exchange rates applied in Budapest banks, official exchange offices and hotels may vary. All major credit cards are accepted in Hungary in places displaying the emblem at the entrance.


**Lunch offer**
The registration fee does not include lunch for the participants.

Special daily ECCN2017 buffet menu on site from Budapest Marriott Hotel: 22 EUR/lunch

Please visit Peppers Restaurant!

Within walking distance from the congress venue, many restaurants are available offering wide range of dishes from fast food through traditional cuisine to fine dining.

Recommended restaurant: Kiosk Budapest (1056 Budapest, Március 15. tér 4.), http://kiosk-budapest.com/

Daily menu is available 12.00 – 15.00.

**Smoking**
Smoking is not permitted in the congress venue. Smoking areas are appointed outside the Budapest Marriott Hotel.

**Tipping**
Service charges are not added to accounts by hotels and restaurants. You may tip taxi drivers, hotel porters and restaurant waitstaff (up to about 10% of the bill) if you wish to acknowledge exceptional service. At any time, tipping is your choice.

**Emergency Details**
In an emergency call 112 for Ambulance, Fire Service or Police.

**Lost and Found**
Any found item may be turned into the Registration Desk. Enquiries about lost items can be directed to the Registration Desk also.

**Mobile phones**
Please respect the speakers and presenters by ensuring that your mobile phone is switched off during the scientific sessions.
**Wednesday, 30 August**

<table>
<thead>
<tr>
<th>Time</th>
<th>Ballroom</th>
<th>Erzsébet I.</th>
<th>Corso</th>
<th>Lánchid</th>
<th>Erzsébet II.</th>
<th>István</th>
<th>View A</th>
<th>Béla B</th>
<th>Institute of Experimental Medicine</th>
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<tbody>
<tr>
<td>09:00 – 10:00</td>
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<td>08:30 – 10:30</td>
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<td>TC 24. Normal neonatal EEG and identification of artifacts F. Wallois</td>
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<td>10:45 – 11:00</td>
<td>Coffee Break</td>
<td>Coffee Break</td>
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<td>TC 3. Normal neonatal EEG and identification of artifacts F. Wallois</td>
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<tr>
<td>11:00 – 13:00</td>
<td>Free Communication I. Neurophysiology of the peripheral nervous system 1.</td>
<td>Free Communication II. Brain stimulation 1.</td>
<td>Free Communication III. Quantitative neurophysiology</td>
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<td>TC 3. Hands-on interactive session on standardized computer-based organized reporting of EEG: score S. Beniczky</td>
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<tr>
<td>13:00 – 14:00</td>
<td>Lunch Break</td>
<td>Lunch Break</td>
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<td>TC 16. Experimental electrophysiology, optogenetics and cellular imaging Z. Nusser</td>
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<td>15:30 – 16:00</td>
<td>Coffee Break</td>
<td>Coffee Break</td>
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<td>TC 25. Classification of neonatal seizures R. Pressler</td>
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<tr>
<td>16:00 – 17:30</td>
<td>Symposium I. F. Vecchio</td>
<td>Updates on human brain connectome: from physiology to disease</td>
<td>Section of Assistants/Technicians</td>
<td>Symposium II Y. Payvan</td>
<td>Familial Amyloid Polyneuropathy (FAP): All aspects of the disease from diagnosis to treatment</td>
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<td>TC 22. Classification of neonatal seizures R. Pressler</td>
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<td>18:00 – 19:00</td>
<td>Opening Ceremony</td>
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<td>19:00 – 21:00</td>
<td>Welcome Reception</td>
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**Program overview – Thursday**

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<thead>
<tr>
<th>Time</th>
<th>Ballroom</th>
<th>Erzsébet I.</th>
<th>Corso</th>
<th>Lánchíd</th>
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<th>View A</th>
<th>View B</th>
<th>Béla B</th>
<th>View B Board Room</th>
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<tbody>
<tr>
<td>07:30 – 08:00</td>
<td>Practical Tips for Trainees III.</td>
<td>Practical Tips for Trainees IV.</td>
<td>Practical Tips for Trainees V.</td>
<td>Elsevier’s Publishing Connect workshop program</td>
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<tr>
<td>08:00 – 08:45</td>
<td>How to get published?</td>
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<td>08:45 – 09:00</td>
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<tr>
<td>09:00 – 10:30</td>
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<td>Symposium III.</td>
<td>Insular cortex epilepsy</td>
<td>Symposium IV.</td>
<td>Recent insights into axonal excitability and ion channel redistribution in neurological diseases</td>
<td>Symposium V.</td>
<td>Electrodiagnostic criteria of ALS including ultrasound</td>
<td>Symposium VI.</td>
<td>Advanced EEG signal analysis in clinical practice</td>
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<td>10:30 – 10:45</td>
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<tr>
<td>10:45 – 11:45</td>
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<td>Plenary Lecture</td>
<td>Closed-loop interaction with the brain</td>
<td>Symposium VII.</td>
<td>New insight into the pathophysiology and treatment of trigeminal neuralgia</td>
<td>Symposium VIII.</td>
<td>Epileptic spasms in neonates, infants and young children</td>
<td>Symposium IX.</td>
<td>Motor unit with an electrophysiological microscope: from inside and from outside</td>
<td>Symposium X.</td>
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<td>11:45 – 12:45</td>
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<td>12:45 – 13:45</td>
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<td>Lunch Break</td>
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<td>17:00 – 17:10</td>
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<td>Break</td>
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</table>

**ECCN2017**

**Program overview – Thursday**

<table>
<thead>
<tr>
<th>Time</th>
<th>Ballroom</th>
<th>Erzsébet I.</th>
<th>Corso</th>
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</tr>
</thead>
<tbody>
<tr>
<td>09:15 – 10:45</td>
<td>Practical Tips for Trainees VI-VII.</td>
<td>Quantitative EMG</td>
<td>Practical Tips for Trainees VI-VII.</td>
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<tr>
<td>13:45 – 15:45</td>
<td>Symposium VII.</td>
<td>Epileptic spasms in neonates, infants and young children</td>
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<td>17:00 – 18:40</td>
<td>Symposium XI.</td>
<td>Subcortical modulation of cortical functions</td>
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<td>17:10 – 18:40</td>
<td>Symposium XII.</td>
<td>New insights into pathophysiology and electrodiagnosis of dysimmune neuropathies</td>
<td>Symposium XIII.</td>
<td>Paediatric ENMG</td>
<td>Symposium XIV.</td>
<td>The role of intraoperative electrophysiology in the clinical practice</td>
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| 07:30 – 08:00   | 08:00 – 08:45 Practical Tips for Trainees XI.  
Practical Tips for Trainees XII.  
Practical Tips for Trainees XIII.  
Practical Tips for Trainees XIV. | Ballroom, Erzsébet I., Corso, Lánchíd | 07:15–08:45      | TC 23. Seizure semiology changes during childhood  
TC 11. VEMPS – current perspectives | Erzsébet II., István, View A          |
| 08:00 – 08:45   | TC 1. Ultrasonography of peripheral nerves: a complementary tool to electrophysiology  
Zs. Arányi | Erzsébet II.  
István | 07:15–08:45      | TC 14. Intraoperative microneurostimulation and deep brain stimulation  
M. Habek | View A  
István |
| 08:45 – 09:00   | Break                                                                                       |                  | 09:00 – 10:30   | Break                                                                                       |                  |
| 09:00 – 10:30   | Symposium XVI. G. Gravito  
Robotic hand prosthesis and phantom limb pain  
Symposium XVII. P. Halász, A. Lüthi  
The neurophysiology of sleep EEG constituents 1.  
Symposium XVIII. H. Tankoš/H. Uysal  
Axonal excitability and diabetic polyneuropathy | Ballroom, Erzsébet I., Corso, Lánchíd | 10:45–12:15      | TC 18. “Neuropathic” or “myopathic”: pitfalls of needle EMG testing  
Y. Pereon | Erzsébet II., István, View A          |
| 10:30 – 10:45   | Coffee Break                                                                                 |                  | 10:45–12:15      | Coffee Break                                                                                 |                  |
| 10:45 – 11:45   | ECCN General Assembly                                                                       |                  | TC 19.  
Pathophysiology of blepharospasm revisited  
Symposium XX. M. Molnár  
Electrophysiology of aging  
Symposium XXI. T. Tal nine/W. Wesci  
Primary headaches and clinical neurophysiology  
Symposium XXII. G. Tassonyi  
Presurgical evaluation of children with pharmacoresistant epilepsy  
Symposium XXIII. P. Halász  
The neurophysiology of the autonomic nervous system | Ballroom, Erzsébet I., Corso, Lánchíd | 10:45–12:15      | Coffee Break                                                                                 |                  |
2.  
Free Communication VII. Neuropathology in pediatrics | Erzsébet II., István, View A          | 10:45–12:15      | Free Communication VII. Neuropathology in pediatrics | Erzsébet II., István, View A          |
| 12:45 – 13:45   | Poster II.  
Clinical aspect of intraoperative neuromonitoring |                  | 07:15 – 08:00   | 07:15 – 08:00 | 07:15–08:45 | 07:15–08:45 |
| 13:45 – 15:15   | Symposium XIX. H. Halász  
Pathophysiology of blepharospasm revisited  
Symposium XX. M. Molnár  
Electrophysiology of aging  
Symposium XXI. T. Tal nine/W. Wesci  
Primary headaches and clinical neurophysiology  
Symposium XXII. G. Tassonyi  
Presurgical evaluation of children with pharmacoresistant epilepsy  
Symposium XXIII. P. Halász  
The neurophysiology of the autonomic nervous system | Ballroom, Erzsébet I., Corso, Lánchíd | 15:15 – 17:00    | 17:00 – 17:10 | 17:00 – 17:10 | 17:00 – 17:10 |
| 15:15 – 17:00   | 15:15–17:00 Plenary Lecture  
Human neurophysiology of pain  
L. García-Larrea  
rTMS as a routine treatment in neurology  
L. Lencse | Ballroom, Erzsébet I., Corso, Lánchíd | 17:00 – 17:10    | 17:00 – 17:10 | 17:00 – 17:10 | 17:00 – 17:10 |
| 17:00 – 18:45   | Free Communication IX.  
Neurophysiology of the autonomic nervous system  
Symposium XXIII. P. Halász  
The neurophysiology of sleep 2.  
Free Communication X.  
Neurophysiology of cognition  
Free Communication XI.  
Intraoperative neurophysiology | Ballroom, Erzsébet I., Corso, Lánchíd | 17:00 – 17:10    | 17:00 – 17:10 | 17:00 – 17:10 | 17:00 – 17:10 |
<table>
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<tr>
<th>Saturday, 2 September</th>
<th>Ballroom</th>
<th>Erzsébet I.</th>
<th>Lánchíd</th>
<th>Erzsébet II.</th>
<th>István</th>
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<td>The emergence of a circuit model for addiction</td>
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<td>Symposium XXV.</td>
<td>Symposium XXVI.</td>
<td>Symposium XXVII.</td>
<td>Free Communication XII.</td>
<td>Free Communication XIII.</td>
<td>Practical Tips for Trainees XV-XVI.</td>
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<td>M. Bares, M. Manto</td>
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<td>D. Fabó</td>
<td>Free Communication XII.</td>
<td>Free Communication XIII.</td>
<td>Practical Tips for Trainees XV-XVI.</td>
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<td>The mystery of cerebellum</td>
<td>Presurgical evaluation in epilepsy surgery</td>
<td>The interictal and ictal behaviour of epileptic neurons</td>
<td>Brain stimulation 2.</td>
<td>Neurophysiology in the diagnosis and treatment of diseases 2.</td>
<td>Small Fibre testing</td>
<td>NCS/EMG A, Uncini</td>
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<td><strong>12:30 – 13:00</strong></td>
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08:30 – 10:30  TEACHING COURSE 5  
BASICS OF EMG
Reinhard Dengler
Department of Neurology, Hannover Medical School, Germany

09:00 – 10:30  TEACHING COURSE 24  
NORMAL NEONATAL EEG AND IDENTIFICATION OF ARTIFACTS
Fabrice Wallois
Amiens University Hospital, University of Picardy, France

09:00 – 11:30  TEACHING COURSE 17  
LOW INTENSITY TRANSCRANIAL ELECTRIC STIMULATION (TES) IN THE THERAPY OF NEUROLOGICAL AND PSYCHIATRIC DISORDERS
Walter Paulus
Department of Clinical Neurophysiology, University Medical Centre, Göttingen, Germany
Michael A. Nitsche
Department of Psychology and Neurosciences, Leibniz Research Centre for Working Environment and Human Factors, Dortmund, Germany

09:00 – 12:00  TEACHING COURSE 3  
HANDS-ON INTERACTIVE SESSION ON STANDARDIZED COMPUTER-BASED ORGANIZED REPORTING OF EEG: SCORE
Sándor Beniczky
Clinical Neurophysiology Department, Danish Epilepsy Centre and Aarhus University, Denmark
Harald Aurlien
Haukeland University Hospital, Bergen, Norway
05  
CUTANEOUS SILENT PERIOD RECORDINGS AND SILENT PERIOD RATIO COULD BE USED TO ASSESS PERIPHERAL A5 FUNCTIONS
Baris Isak1, Hatice Tankisi2, Lise Ventzel3, Kirsten Pudgahli4, Nanna Brixfinnerup1, Anders Fuglsang-Frederiksen2
1 Marmara University Hospital, Department of Neurology, Istanbul, Turkey
2 Aarhus University Hospital, Department of Clinical Neurophysiology, Aarhus, Denmark
3 University of British Columbia, ICORD (International Collaboration on Repair Discoveries), Vancouver, Canada
4 Balgrist University Hospital, Spinal Cord Injury Center, Zurich, Switzerland

06  
THE UTILITY OF DISTAL NERVE CONDUCTION STUDIES AND SURAL NEAR-NERVE NEEDLE RECORDING IN ELECTRODIAGNOSIS OF POLYNEUROPATHY
Mustafa Aykut Kural1, Pall Karlsson2, Kirsten Pudgahli3, Baris Isak1, Anders Fuglsang-Frederiksen1, Hatice Tankisi2
1 Aarhus University Hospital, Department of Clinical Neurophysiology, Aarhus, Denmark
2 Danish Pain Research Centre, Department of Neurology, Aarhus, Denmark
3 University of Zagreb, School of Medicine, Department of Neurology, Zagreb, Croatia

07  
BRAINSTEM EVOKED POTENTIALS (BEP) Z SCORE IS A PREDICTOR OF DISABILITY PROGRESSION IN PATIENTS WITH CLINICALLY ISOLATED SYNDROME
Ivan Pavlovic1, Luka Crnosija2, Magdalena Krbot Skoric3, Tereza Gabelic2, Ivan Adamec2, Mario Habek1
1 University of Zagreb, School of Medicine, Department of Neurology, Zagreb, Croatia
2 University Hospital Center Zagreb, Department of Neurology, Zagreb, Croatia
3 University of Zagreb, School of Medicine, Department of Neurology, Zagreb, Croatia

08  
CONTACT HEAT EVOKED POTENTIALS OF LOWER EXTREMITIES – A FEASIBILITY STUDY
Michele Hubli1, Jan Rosner2, Pascal Hostettler1, Armin Curt1, Catherine Jutzeler1
1 Aarhus University Hospital, Department of Clinical Neurophysiology, Aarhus, Denmark
2 Danish Pain Research Centre, Department of Medicine, Aarhus, Denmark

09  
EARLY MACULAR ATROPHY AT OPTICAL COHERENCE TOMOGRAPHY IS PREDICTED BY VISUAL EVOKED POTENTIALS AND PRECEDES PERIPAPILLARY NEURODEGENERATION AFTER ACUTE OPTIC NEURITIS
Su-Chun Huang, Simone Guerrieri, Marco Pisa, Vittorio Martellini, Lucia Moiola, Giancarlo Comi, Letizia Leocani
Department of Neurology and INSPE-Institute of Experimental Neurology, Scientific Institute and University Hospital San Raffaele, Milan, Italy

10  
THE USAGE OF BONE CONDUCTION (BC) WITH TIME-VARYING FREQUENCY CHIRP STIMULATION TO EVALUATE AUDITORY BRAINSTEM RESPONSE (ABR)
Shaden Bsoul, Joseph Attias, Doron Urbach
University of Haifa, Department of Communication Sciences & Disorders, Haifa, Israel

11:00 – 13:00  FREE COMMUNICATION II. – BRAIN STIMULATION I.  
CORSO ROOM

11  
MOTOR CORTEX VSACRAL MAGNETIC STIMULATION IN LOWER URINARY TRACT DYSFUNCTION IN MULTIPLE SCLEROSIS
Hala Elhabashy1, Mona Nadal, Eman Maher1, Reham Shamloul1, Mohamed Abdelazim1, Mai Maged1
1 Cairo University, Clinical Neurophysiology, Cairo, Egypt
2 Cairo University, Neurology, Cairo, Egypt

12  
RTMS THERAPY ON M1 MODIFIES THE FACIAL MOTOR MAP IN CHRONIC NEUROPATHIC PAIN
Laurasaisanen1, Jelena Hyypponen1, Elissa Kallioniemi1, Esaa Mervaala1, Eeva Hallikainen-Pirskanen1, JukkaHuttunen1, Mikael Fraunberg1
1 University of Eastern Finland, Department of Clinical Neuroradiology, Kuopio, Finland
2 Kuopio University Hospital, Department of Clinical Neurophysiology, Kuopio, Finland
3 Kuopio University Hospital, Pain Clinic, Kuopio, Finland
4 Kuopio University Hospital, Department of Neurosurgery, Kuopio, Finland

13  
EXPLORING THE MODULATORS OF CORTICAL EXCITABILITY
AnnikaDe Goede1, Michel Van Putten1
1 University of Twente, Clinical Neurophysiology, Enschede, The Netherlands
2 University of Twente and Medisch Spectrum Twente, Department of Clinical Neurophysiology and Neurology, Enschede, The Netherlands

14  
ALTERED RECOVERY FROM INHIBITORY REPETITIVE TRANSCRANIAL MAGNETIC STIMULATION (RTMS) IN SUBJECTS WITH PHOTOSENSITIVE EPILEPSY
Tommaso Bocci1, Matteo Caleo2, Laura Restanti1, Davide Barloccio1, Laura Parenti1, Simone Rossini2, Ferdinando Sartucci1
1 University of Pisa, Department of Clinical and Experimental Medicine, Pisa, Italy
2 University of Pisa, National Research Council, Pisa, Italy
3 University of Siena, Department of Neurological and Neurosensory Sciences, Siena, Italy

15  
LONG-TERM FOLLOW-UP STUDY WITH NON-INVASIVE BRAIN STIMULATION (NBS) (RTMS AND TDCS) IN PARKINSON’S DISEASE. STRONG AGE DEPENDENCY IN THE EFFECT OF NBS
JudithMály1, NoémiGeisz2, ElekDínya2
1 Institute of Neurorehabilitation, Szép, Hungary
2 Digital Health Department of Semmelweis University, Budapest, Hungary

16  
SHIFTS IN MEAN PEAK OSCILLATORY FREQUENCY DURING REPETITIVE TRANSCRANIAL MAGNETIC STIMULATION (RTMS) TREATMENT OF MAJOR DEPRESSIVE DISORDER
AndrewLeuchter, JulianeCorlier, IanCook
University of California Los Angeles, Semel Institute for Neuroscience and Human Behavior, Los Angeles, USA

17  
CONTROLLED STIMULATION OF DEEP BRAIN AREAS USING NAVIGATED TMS WITH A STANDARD COIL
MagnusThordstein
University Hospital Linköping, Clinical Neurophysiology, Linköping, Sweden

18  
CATHODAL TRANSCRANIAL DIRECT CURRENT STIMULATION REDUCES SEIZURE FREQUENCY AND MODULATES BRAIN FUNCTIONAL CONNECTIVITY WITH DRUG-RESISTANT TEMPORAL LOBE EPILEPSY: A SHAM CONTROLLED STUDY
GiovanniAssenza1, CarloCotbone1, FrancaTecchio1, VincenzoDi Lazzaro1
1 Università Campus Bio-Medico di Roma, Neurology, Rome, Italy
2 CNR, LRTClinical, Rome, Italy
ABNORMAL INTERACTION BETWEEN SOMATOSENSORY AND THE MOTOR CORTEX IN DYSTONIA NOT RESPONDING TO PALLIDAL STIMULATION

Anna Fecikova1, Vaclav Cejka2, Vaclav Capek1, Dusan Urgosik3, Robert Jech4
1 Charles University, First Faculty of Medicine and General University Hospital, Department of Neurology and Center of Clinical Neuroscience, Prague, Czech Republic
2 Czech Technical University, Faculty of Biomedical Engineering, Prague, Czech Republic
3 Na Homolce Hospital, Department of Stereotactic and Radiation Neurosurgery, Prague, Czech Republic
4 Charles University, First Faculty of Medicine and General University Hospital, Clinical Neurophysiology and Department of Neurology, Prague, Czech Republic

DEEP LEARNING WITH CONVOLUTIONAL NEURAL NETWORKS FOR DETECTION OF INTERICTAL EPILEPTIFORM DISCHARGES

Vesna Miljanović1, Marleen Tjepkema-Cloostermans2, Michel Van Putten3
1 University of Twente, Clinical Neurophysiology, Enschede, The Netherlands
2 Medisch Spectrum Twente, Department of Clinical Neurophysiology and Neurology, Enschede, The Netherlands
3 University of Twente and Medisch Spectrum Twente, Department of Clinical Neurophysiology and Neurology, Enschede, The Netherlands

PEAK RATIO AND MOTOR UNIT POTENTIAL ANALYSES IN DETECTION OF CHRONIC NEUROGENIC CHANGES IN AMYOTROPHIC LATERAL SCLEROSIS

Hatice Tankisi1, Kirsten Pugdahl1, Birger Johnsen1, Bulent Cengiz1, Jean-Philippe Camdessanche1, Mamede De Carvalho1, Anders Fuglsang-Frederiksen2
1 Aarhus University Hospital, Department of Clinical Neurophysiology, Aarhus, Denmark
2 Gazi University Faculty of Medicine, Department of Neurology, Ankara, Turkey
3 Saint-Etienne University Hospital, Department of Neurology, Saint-Etienne, France
4 Hospital de Santa Maria-CHLN, Department of Neuroscience, Lisbon, Portugal

CHARACTERISTIC SLOW GAMMA AND DELTA FREQUENCY CHANGES IN THE PREICTAL EEG OF PARTIAL EPILEPTIC PATIENTS

Attila Balogh
Sz. Steven Hospital, Regional and Capital Center of Epilepsy, Budapest, Hungary

A NOVEL METHOD TO FOLLOW DISEASE PROGRESSION IN ALS: MSCANFIT MUNE

Anna Bystrup Jacobsen1, Hugh Bostock1, Hatice Tankisi1
1 Aarhus University Hospital, Department of Clinical Neurophysiology, Aarhus, Denmark
2 University College London, Institute of Neurology, London, United Kingdom

MOTOR UNIT NUMBER ESTIMATION METHODS COMPARED TO QUANTITATIVE MOTOR UNIT POTENTIAL ANALYSIS IN AMYOTROPHIC LATERAL SCLEROSIS

Rikke Soegaard Kristensen, Anna Bystrup Jacobsen, Anders Fuglsang-Frederiksen, Hatice Tankisi
Aarhus University Hospital, Clinical Neurophysiology, Aarhus, Denmark

MSCANFIT MUNE IN EXAMINING MOTOR UNIT LOSS IN GBS

Christina Shen-Zhuang Nielsen1, Michael Vaeggemose2, Anna Bystrup Jacobsen1, Anders Fuglsang-Frederiksen1, Henning Andersens1, Hatice Tankisi1
1 Aarhus University Hospital, Department of Clinical Neurophysiology, Aarhus, Denmark
2 Aarhus University Hospital, Department of Neurology, Aarhus, Denmark

WAVELET ANALYSIS OF EEG RECORDED DURING UNCONSCIOUS EXPECTATION OF ANGRY VS. NEUTRAL FACES IN PATIENTS WITH MAJOR DEPRESSION AND HEALTHY CONTROLS

Elena Mnatsakanian1, Maxim Sharaev2, Vadim Krijukov3, Olga Antipova3, Valery Krasnov2
1 Institute of Higher Nervous Activity & neurophysiology NAS, Human Higher Nervous Activity Lab, Moscow, Russia
2 National Research Center “Kurchatov Institute”, Neurology, Moscow, Russia
3 Moscow Research Institute of Psychiatry, Department of Afflictive Disorders, Moscow, Russia

ADVANCED DYNAMIC STATISTICAL PARAMETRIC MAPPING (ADSPM) FOR FOCAL CORTICAL DYSPLASIA AT BOTTOM OF SULCUS

Midori Nakajima, Hiroshi Otsubo
The Hospital for Sick Children, Department of Neurology, Toronto, Canada

EEG CRITERIA OF NON-CONVULSIVE STATUS EPILEPTICUS

Sandor Beniczky
Danish Epilepsy Centre, Aarhus University, Aarhus, Denmark

UPDATE ON TRANSCRANIAL ELECTRIC STIMULATION

Walter Paulus
Department of Clinical Neurophysiology, University Medical Center Göttingen, Germany

PREVALENCE AND RISK FACTORS OF EPILEPTIC SEIZURES IN ALZHEIMER’S DISEASE

Anita Kamondi, András Horváth, Gábor Barcs, Anna Szűcs
National Institute of Clinical Neurosciences, Budapest, Hungary

FUTURE IMPERFECT? CLINICAL NEUROPHYSIOLOGY AND THE EUROPEAN CHAPTER

Jonathan Cole
Clinical Neurophysiology, Poole Hospital, Poole, United Kingdom

UPDATES ON HUMAN BRAIN CONNECTOME: FROM PHYSIOLOGY TO DISEASE

Chair: Fabrizio Vecchio

BEHAVIOUR PERFORMANCE IN A COGNITIVE–MOTOR TASK DURING LEARNING PROCESSES: EVIDENCE FROM EEG NETWORK ANALYSIS

Fabrizio Vecchio
IRCCS San Raffaele Pisana, Brain Connectivity Laboratory, Rome, Italy

STRUCTURALLY INFORMED ANALYSES OF FUNCTIONAL CONNECTIVITY IN STROKE

Christian Gerloff
University Medical Center Hamburg-Eppendorf, Department of Neurology, Hamburg, Germany
INVESTIGATION METHOD OF NEURODEGENERATION THROUGH BRAIN CONNECTIVITY MODULATION
Paolo Maria Rossini
Università Cattolica del Sacro Cuore, Institute of Neurology, Rome, Italy

NETWORK INTERVENTION MODELLING IN ALZHEIMER’S DISEASE
Willem De Haan
VU University Medical Center, Department of Neurology, Amsterdam, The Netherlands

16:00 – 17:30 ASSISTANT/TECHNICIANS SESSION
CORSO ROOM
Chair: Zoltán Balogh, Walter Paulus, Anita Kamondi

TASKS AND ROLES OF THE PROFESSIONAL REGULATORY BODY IN THE EDUCATION AND IN THE CONTINUOUS PROFESSIONAL DEVELOPMENT
Zoltán Balogh
President of the Chamber of Hungarian Health Care Professionals, Head of Department, College Professor, Semmelweis University, Faculty of Health Sciences, Budapest, Hungary

„INCHING” METHOD IN LOCALIZING COMPRESSION IN CASE OF ULNAR NERVE — THE ALADÁR NAGY LECTURE
Tünde Peterman1, Péter Diószeghy2, Ferenc Mechler1
1 University of Debrecen, Department of Neurology, Debrecen, Hungary
2 Andras Josa Teaching Hospital, Department of Neurology, Nyíregyháza, Hungary

TRNS EFFECTS ON MULTIPLE SCLEROSIS SYMPTOMS: A RANDOMIZED DOUBLE-BLIND SHAM-CONTROLLED TRIAL
Moussa A. Chalah1, Ulrich Palm1, Jean-Pascal Lefaucheur2, Samar S. Ayache1
1 Hôpital Henri Mondor, Assistance Publique - Hôpitaux de Paris, EA 4391, Faculty of Medicine, Paris Est University-Physiology department, Henri Mondor Hospital, Creteil, France
2 Klinikum der Universität München, Institut für klinische Neuroimmunologie, Munich, Germany

THE ROLE OF TECHNICIANS IN ULTRASOUND EXAMINATIONS OF PERIPHERAL NERVES AND MUSCLES
Gregor Omejec
University Medical Center Ljubljana, Institute of Clinical Neurophysiology, Ljubljana, Slovenia

PHYSIOTHERAPY OF CARPAL TUNNEL SYNDROME
Eva Fricz
Centre Hospitalier de Denain, Department of Physiotherapy, Denain, France

16:00 – 17:30 SYMPOSIUM II
LÁNCHÍD ROOM
FAMILIAL AMYLOID POLYNEUROPATHY (FAP): ALL ASPECTS OF THE DISEASE FROM DIAGNOSIS TO TREATMENT
Chair: Yeşim Parman

FAMILIAL AMYLOID POLYNEUROPATHY (FAP): ALL ASPECTS OF THE DISEASE FROM DIAGNOSIS TO TREATMENT:
DISEASE DESCRIPTION: WHAT IS FAP?
Sevim Erdem Ozdamar
Hacettepe University, Neurology, Ankara, Turkey
ELSEVIER'S PUBLISHING CONNECT WORKSHOP

How to Get Published? LÁNCCHÍD ROOM

Elsevier’s Publishing Connect workshop program trains early career researchers on various aspects of the scholarly publishing process, i.e. how to publish a paper and what to expect from the editorial process with Clinical Neurophysiology as an example. Together with Prof Ziemann, we intend to deliver a tailor-made workshop to the specific needs and interests of your audience.

TEACHING COURSE 4 ERZSÉBET II. ROOM

Clinical Neurophysiology in Intensive Care

Introduction
Mamede De Carvalho
Faculty Medicine, University of Lisbon and Department of Neurosciences, Centro Hospitalar Lisboa Norte, Lisbon, Portugal

Intensive Care Unit Myopathy
Hatice Tankisi, Kirsten Pugdhal
Department of Clinical Medicine - Department of Clinical Neurophysiology, Department of Clinical Medicine, Health, Aarhus University, Aarhus, Denmark

Intensive Care Unit Neuropathy
Birger Johnsen
Department of Clinical Medicine - Department of Clinical Neurophysiology, Department of Clinical Medicine, Health, Aarhus University, Aarhus, Denmark

Respiratory Evaluation
Mamede De Carvalho
Faculty Medicine, University of Lisbon and Department of Neurosciences, Centro Hospitalar Lisboa Norte, Lisbon, Portugal

Open Discussion

TEACHING COURSE 6 ISTVÁN ROOM

Electrodiagnostic Criteria of Motor Neuron Disease/ALS Including Ultrasound

Reinhard Dengler, Susanne Petri
Department of Neurology, Hannover Medical School, Hannover, Germany

Teaching Course 10 VIEW A ROOM

How and When to Test Autonomic Nervous System?

Mario Habek
Herzir Center for Autonomic Nervous System, Department of Neurology, University Hospital Center Zagreb, Zagreb, Croatia

Walter Struhal
General Hospital of the City of Linz, Linz, Austria

Ellen Merete Hagen
Autonomic Unit National Hospital for Neurology and Neurosurgery, London, United Kingdom

Topics:
- How to test autonomic nervous system?
- Functional disorders of the ANS
- Structural disorders of the ANS
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<th>Time</th>
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<td>08:00 – 08:45</td>
<td><strong>PRACTICAL TIPS FOR TRAINEES III.</strong></td>
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<td>Vildan Yayla</td>
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<td>08:00 – 08:45</td>
<td><strong>PRACTICAL TIPS FOR TRAINEES IV.</strong></td>
<td>ERZSÉBET I. ROOM</td>
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<td>PAEDIATRIC EEG NON EPILEPSY</td>
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<td>Monika Eisermann</td>
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<td>08:00 – 08:45</td>
<td><strong>PRACTICAL TIPS FOR TRAINEES V.</strong></td>
<td>CORSO ROOM</td>
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<td></td>
<td>DIFFERENTIAL DIAGNOSIS OF PARASOMNIA, MOVEMENT DISORDER AND EPILEPSY DURING SLEEP</td>
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<td>Helene Bastuji</td>
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<td>09:00 – 10:30</td>
<td><strong>SYMPOSIUM III.</strong> CLINICAL INVESTIGATION OF INSULAR CORTEX EPILEPSY</td>
<td>BALLROOM</td>
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<td>Chair: Jean Isnard</td>
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<td><strong>S43 INSULAR SEMIOLOGY: FROM OBSERVATION OF CASES TO CORTEX STIMULATION</strong></td>
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<td></td>
<td>Jean Isnard</td>
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<td></td>
<td>Hôpitaux Civils de Lyon, Functional Neurology and Epilepsy, Lyon, France</td>
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<td><strong>S44 NON-INVASIVE PRESURGICAL EVALUATION OF INSULAR CORTEX EPILEPSY</strong></td>
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<td>Dang Khoa Nguyen</td>
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<td>Centre Hospital de l'Université de Montréal (CHUM), Division of Neurology, Montréal, Canada</td>
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<td><strong>S45 INVASIVE EEG INVESTIGATION OF INSULAR CORTEX EPILEPSY</strong></td>
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<td>Pierre Bourdillon¹, Marc Guénot, Jean Isnard²</td>
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<td>¹Hôpitaux Civils de Lyon, Hospital for Neurology and Neurosurgery Pierre Wertheimer, Department of Neurosurgery, Lyon, France</td>
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<td>²Centre Hospital de l'Université de Montréal (CHUM), Division of Neurology, Montréal, Canada</td>
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<td><strong>S46 RECENT INSIGHTS INTO AXONAL EXCITABILITY AND ION CHANNEL REDISTRIBUTION IN NEUROLOGICAL DISEASES</strong></td>
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<td>Chair: David Burke</td>
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<td><strong>S47 CHANGES IN VOLTAGE-GATED CHANNELS IN REGENERATED AXONS DISTAL AND PROXIMAL TO A NERVE LESION</strong></td>
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<td>Christian Kraupa¹, Susana Alvarez², Dragos Muraru³, Mihai Moldovan⁴</td>
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<td>¹Rigshospitalet, Department of Clinical Neurophysiology, Copenhagen, Denmark</td>
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<td>²University of Copenhagen, Center for Neuroscience, Copenhagen, Denmark</td>
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<td>³University of Bucharest, Department of Plastic Surgery, Bucharest, Romania</td>
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<td><strong>S48 AXONAL EXCITABILITY, SCHWANN CELLS AND THE ‘BARRETT-BARRETT CONDUCTANCE’</strong></td>
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<td>Hugh Bostock</td>
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<td>Institute of Neurology, University College London, Soebel department, London, United Kingdom</td>
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<td><strong>S49 CHANGES IN THE FINAL COMMON PATH IN CMT1A AND RLS</strong></td>
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<td>Dirk Czesnik</td>
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<td>Medical School Göttingen, Department of Clinical Neurophysiology, Göttingen, Germany</td>
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<td>09:00 – 10:30</td>
<td><strong>SYMPOSIUM IV.</strong> NEONATAL EEG</td>
<td>CORSO ROOM</td>
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<td>Chair: Geraldine Boylan</td>
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<td><strong>S50 DEVELOPMENT OF A NEONATAL SEIZURE DETECTION ALGORITHM; THE ANS-eR STUDY</strong></td>
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<td>Geraldine Boylan</td>
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<td>University College Cork, Department of Paediatrics &amp; Child Health, Cork, Ireland</td>
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<td><strong>S51 ONTOGENESIS OF EEG: FROM PRETERM BABIES TO THE FIRST YEAR OF LIFE</strong></td>
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<td>Fabrice Wallois</td>
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<td>Inserm U 1105, University of Picardy, Amiens University Hospital, Amiens, France</td>
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<td><strong>S52 CEEG AND AEEG IN HYPOTHERMIA IN TERM NEONATES WITH HIE</strong></td>
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<td>Marie-Dominique Lamblin¹, Florence Flamein²</td>
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<td>¹Roger Salengro Hospital, CHRU, Clinical Neurophysiology, Lille, France</td>
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<td>²Jeanne de Flandres Hospital, CHRU, Department of Neonatology, Lille, France</td>
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<td><strong>S53 AED DEVELOPMENT IN NEONATES</strong></td>
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<td>Ronit Pressler</td>
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<td>Great Ormond Street Hospital for Children, London, Clinical Neurophysiology, London, United Kingdom</td>
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<td>09:00 – 10:30</td>
<td><strong>SYMPOSIUM V.</strong> ADVANCED EEG SIGNAL ANALYSIS IN CLINICAL PRACTICE</td>
<td>LÁNCHÍD ROOM</td>
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<td>Chair: Tudor Lupescu</td>
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<td><strong>S54 DEVELOPMENT OF A NEONATAL SEIZURE DETECTION ALGORITHM; THE ANS-eR STUDY</strong></td>
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<td>University College Cork, Department of Paediatrics &amp; Child Health, Cork, Ireland</td>
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MOTOR AXON EXCITABILITY CHANGES DURING ANTI-EPILEPTIC VOLTAGE-GATED NA+ CHANNEL BLOCKER THERAPY
Tudor Lupescu1, Ana Maria Cobzaru2, Ionela Codita1, Izabela Popa4, Mihai Moldovan5

1 Agrippa Ionescu Clinical Hospital, Department of Neurology, Bucharest, Romania
2 Emergency University Hospital Bucharest, Department of Neurology, Bucharest, Romania
3 Elias Emergency Clinical Hospital, Department of Neurology, Bucharest, Romania
4 Santas Medical Center, Neurology, Timisoara, Romania
5 Carol Davila University of Medicine and Pharmacy, Division of Physiology and Fundamental Neuroscience, Bucharest, Romania

EPILEPTOGENICITY BIOMARKERS AND EFFECTIVE CONNECTIVITY IN STEREO-EEG
Andrei Barborica1, Ioana Mindruta2, Cristian Donos3, Mihai Dragos Maliia2, Irina Popa1, Anca Arbune2

1 University of Bucharest, Physics Department, Bucharest, Romania
2 University Emergency Hospital, Epilepsy Unit, Bucharest, Romania
3 University of Texas Health Science Center at Houston, Department of Neurosurgery, Houston, USA

ADDED VALUE OF EEG SIGNAL ANALYSIS IN PRESURGICAL EVALUATION FOR DRUG-RESISTANT EPILEPSY
Ioana Mindrută, Andrei Barborică, Cristian Donos, Mihai Maliă, Irina Popa, Anca Arbune

1 University of Bucharest, Physics Department, Bucharest, Romania
2 University Emergency Hospital, Nuclear Medicine, Bucharest, Romania
3 University of Texas Health Science Center at Houston, Department of Neurosurgery, Houston, USA

NOVEL MEASURES FOR EEG MONITORING IN COMA
Cosmin Șerban1, Andrei Barborică1, Adina Roceanu2, Ioana Mindrută1, Jean Ciurea3, Ana-Maria Zăgrean4, Leon Zăgrean4, Mihai Moldovan5

1 University of Bucharest, Physics Department, Bucharest, Romania
2 University Emergency Hospital, Nuclear Medicine, Bucharest, Romania
3 Bagdasar-Arseni Emergency Hospital, Department of Neurosurgery, Bucharest, Romania
4 “Carol Davila” University of Medicine and Pharmacy, Division of Physiology and Fundamental Neuroscience, Bucharest, Romania
5 University of Copenhagen, Center for Neuroscience, Copenhagen, Denmark

11:45 – 12:45 POSTER SESSION I. (detailed program please see page 64 – 74) BALLROOM
Brain Stimulation I.
Peripheral nerve ultrasound examinations
CN in the diagnosis and treatment of paediatric disorders
Functional connectivity
Neurophysiology of sensory systems

13:45 – 15:15 SYMPOSIUM VII. BALLROOM
CLINICAL NEUROPHYSIOLOGY IN MOVEMENT DISORDERS
Chair: Ignacio Regidor

SURFACE POLYMYOGRAPHY (EMG)
Lidia Cabañes-Martinez
Hospital Ramón y Cajal, Clinical Neurophysiology, Madrid, Spain

CLINICAL NEUROPHYSIOLOGY IN MOVEMENT DISORDERS
Ignacio Regidor
Hospital Universitario Ramón y Cajal, Department of Clinical Neurophysiology, Madrid, Spain

CLINICAL NEUROPHYSIOLOGY IN MOVEMENT DISORDERS: MYOCLONUS
Manuel Alegre, Julio Artieda
Clínica Universidad de Navarra, Clinical Neurophysiology, Pamplona, Spain

CAN WE IMPROVE DEEP BRAIN STIMULATION TARGETING WITH NEUROPHYSIOLOGICAL RECORDING?
José Luis Relova
Hospital Clínico Universitario de Santiago de Compostela, Department of Clinical Neurophysiology, Santiago de Compostela, Spain
13:45 – 15:15 SYMPOSIUM VIII.  ERZSÉBET I. ROOM

NEW INSIGHT INTO THE PATHOPHYSIOLOGY AND TREATMENT OF TRIGEMINAL NEURALGIA
Chair: Satu Jääskeläinen

563 ETIOLOGY OF CLINICALLY ESTABLISHED TRIGEMINAL NEURALGIA: ROLE OF MRI
Turo Nurmikko
The Walton Centre NHS Foundation Trust, Liverpool, Neuroscience Research Centre, Liverpool, United Kingdom

564 NEUROPHYSIOLOGICAL DATA SUPPORTING A PERIPHERAL MECHANISM FOR TRIGEMINAL NEURALGIA
Giorgio Cruccu
Sapienza University of Rome, Department of Neurology and Psychiatry, Rome, Italy

565 NEUROPHYSIOLOGICAL DATA FAVORING A CENTRAL MECHANISM OF TRIGEMINAL NEURALGIA
Mark Obermann
Asklepios Hospitals Schildautal, Center for Neurology, Seesen, Germany

566 PATHOPHYSIOLOGICAL IMPLICATIONS AND CURRENT EVIDENCE FOR THE TREATMENT OF TRIGEMINAL NEURALGIA
Joanna Zakrzewska
University College London, Pain Clinic, London, United Kingdom

13:45 – 15:15 SYMPOSIUM IX.  CORSO ROOM

MOTOR UNIT WITH AN ELECTROPHYSIOLOGICAL MICROSCOPE: FROM INSIDE AND FROM OUTSIDE
Chair: Emre Öge, Baris Baslo

567 SPECIAL PHENOMENA IN THE MOTOR UNIT DURING VOLUNTARY AND ELECTRICAL ACTIVATION
Erik Stålberg
Uppsala Neuroscience, Clinical Neurophysiology, Uppsala, Sweden

568 SFAP TO MUAP: TEMPORAL AND SPATIAL CHARACTERISTICS OF MU
Mehmet Baris Baslo
Istanbul University Istanbul Medical Faculty, Neurology, Istanbul, Turkey

569 FROM OUTSIDE: MU CHARACTERISTICS BY STIMULATION METHODS DURING ACUTE AND CHRONIC DENERVATION
Emre Öge
Istanbul University Istanbul Medical Faculty, Neurology, Istanbul, Turkey

570 ESTIMATING MOTOR UNIT NUMBER FROM CMAP SCANS - MSCANFIT MUNE
Håtice Tankisi
Aarhus University Hospital, Clinical Neurophysiology, Aarhus, Denmark

571 MOTOR UNIT NUMBER INDEX (MUNIX)
Sanjeev Nandedkar
Natus Neurology, Engineering, Hopewell Junction, USA

13:45 – 15:15 SYMPOSIUM X.  LÁNCHÍD ROOM

SLEEP SPINDLES AND CORTICAL UPSTATES
Chair: Róbert Bódizs

572 CORTICAL FEEDBACK AND THALAMOCORTICAL ACTIVITY
Péter Barthó
Research Center for Natural Sciences, Hungarian Academy of Sciences, Institute for Cognitive Neuroscience and Psychology, Budapest, Hungary

573 STATE DEPENDENT ACTIVITY IN THE VISUAL THALAMUS
Magor Lőrincz
University of Szeged, Department of Physiology, Anatomy and Neuroscience, Szeged, Hungary

574 THE CORTICAL PROFILE AND FUNCTIONAL SIGNIFICANCE OF SLEEP SPINDLES
Péter Ujma
Semmelweis University, Institute of Behavioural Sciences, Budapest, Hungary

13:45 – 15:15 FREE COMMUNICATION IV.  ERZSÉBET II. ROOM

NEUROPHYSIOLOGY IN INTENSIVE CARE
Chair: Conchita Maeztu, Mamede De Carvalho

076 EEG CONTINUITY FEATURES PREDICT OUTCOME IN POSTANOXIC ENCEPHALOPATHY
Barry Ruijter1, Jeannette Hofmeijer2, Marleen Tjeckena-Cloostermans3, Michel Van Putten6
1 University of Twente, Clinical Neurophysiology, Enschede, The Netherlands
2 University of Twente and Rijnstate Hospital, Department of Clinical Neurophysiology and Neurology, Enschede and Arnhem, The Netherlands
3 Medisch Spectrum Twente, Department of Clinical Neurophysiology and Neurology, Enschede, The Netherlands
4 University of Twente and Medisch Spectrum Twente, Department of Clinical Neurophysiology and Neurology, Enschede, The Netherlands

077 DEEP LEARNING FOR EEG CLASSIFICATION FOR OUTCOME PREDICTION OF POSTANOXIC COMA
Marleen Tjeckena-Cloostermans1, Jeannette Hofmeijer2, Barry Ruijter1, Albertus Beishuizen1, Frank Bosch1, Michel Van Putten6
1 Medisch Spectrum Twente, Department of Clinical Neurophysiology and Neurology, Enschede, The Netherlands
2 University of Twente and Rijnstate Hospital, Department of Clinical Neurophysiology and Neurology, Enschede and Arnhem, The Netherlands
3 Medisch Spectrum Twente, Department of Clinical Neurophysiology and Neurology, Enschede, The Netherlands
4 University of Twente, Department of Clinical Neurophysiology and Neurology, Enschede, The Netherlands
5 Medisch Spectrum Twente, Intensive Care Center, Enschede, The Netherlands
6 University of Twente and Medisch Spectrum Twente, Department of Clinical Neurophysiology and Neurology, Enschede, The Netherlands

078 MEMBRANE DEPOLARIZATION IN MOTOR NERVES OF CRITICAL ILL PATIENTS IS RELATED TO INSULIN RESISTANCE
Susanne Koch1, Tobias Wollersheim1, Kurt Mai2, Kurt Haas1, Claudia Spies1, Steffen Weber-Carstens1
1 Charité Humboldt University, Anesthesiology and Intensive Care Medicine, Berlin, Germany
2 Charité Humboldt University, Department of Endocrinology, Berlin, Germany
079 VIBRO-TACTILE EVOKED POTENTIALS (EPS) FOR ASSESSMENT OF CONSCIOUSNESS AND COMMUNICATION FOR PEOPLE WITH DISORDERS OF CONSCIOUSNESS
Rupert Ortner1, Francisco Fernandes1, Christoph Guger1, Alexander Heilinger1, Martin Walchshofer1,
Johannes Gruenwald2
1 G.tec medical engineering GmbH, Research & Development, Schiedlberg, Austria
2 Guger Technologies OG, Research & Development, Schiedlberg, Austria

080 NEUROPHYSIOLOGICAL PROGNOSIS IN COMATOSE PATIENTS AFTER CARDIAC ARREST: THE ITALIAN MULTICENTRIC STUDY (PRONECA) - PRELIMINARY DATA-
Riccardo Carrai1, Antonello Grippo1, Franco Valzania1, Maria Lombardi1, Eugenio Vitelli1, Oriano Mecarelli1,
Lucia Politini1, Chiara Minardi1, Paolo Costa1, Aldo Amantini1

081 HIGH FREQUENCY EEG ACTIVITY IS ASSOCIATED WITH PRESERVED CEREBRAL FUNCTION IN CRITICAL ILLNESS
Rikke Malte Nielsen1, Olalla Urdanibia-Centelles 2, Esben Vedel-Larsen1, Kirsten Joan Thomsen3, Kirsten Møller4,
Martin Lauritzen2, Krisztina Benedek2
1 Rigshospitalet Glostrup, Anesthesiology and Critical Care Medicine, Copenhagen, Denmark
2 Rigshospitalet Glostrup, Department of Clinical Neurophysiology, Copenhagen, Denmark
3 University of Copenhagen, Center for Healthy Aging and Department of Neuroscience and Pharmacology, Copenhagen, Denmark
4 Rigshospitalet, Anesthesiology and Critical Care Medicine, Copenhagen, Denmark

082 THE DEVELOPMENT OF NCUS IN CHINA: A 2ND NATIONWIDE SURVEY
Yingying Su1, Suyue Pan2, Wen Jiang3, Furong Wang4, Le Zhang5, Zhenhai Wang6, Bin Peng7, Xusheng Huang8
1 Xuanwu Hospital, Capital Medical University, Neurology, Beijing, China
2 Nanfang Hospital, Southern Medical University, Neurology, Guangdong, China
3 Xijing Hospital, Fourth Military Medical University, Neurology, Xian, China
4 Tongji Hospital of Tongji Medical College, Huazhong University of Science and Technology, Neurology, Wuhan, China
5 Xiangya Hospital Central South University, Neurology, Changsha, China
6 General Hospital of Ningxia Medical University, Neurology, Yinchuan, China
7 Peking Union Medical College Hospital, Chinese Academy of Medical Sciences, Beijing, China
8 Chinese People's Liberation Army General Hospital, Neurology, Beijing, China

13:45 – 15:45 TEACHING COURSE 7
EPILEPTIC SPASMS IN NEONATES, INFANTS AND YOUNG CHILDREN
Monika Eisermann
Necker-Enfants Malades Hospital Paris Descartes University, Department of Clinical Neurophysiology, Paris, France

13:45 – 15:15 TEACHING COURSE 21
CARPAL TUNNEL SYNDROME: TECHNIQUES FOR DIAGNOSIS
Pascal Proot
MUL University of Ghent, Belgium

15:15 – 15:30 Coffee Break

15:30 – 17:00 PLENARY LECTURES
Chairs: Walter Paulus

ECCN2017
Thursday, 31 August 2017
Thursday, 31 August 2017
### 17:10 – 18:40 SYMPOSIUM XIII.

**CORSO ROOM**

#### PAEDIATRIC ENMG

**Chair:** Yann Péron

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<tr>
<td>589</td>
<td>NEUROMUSCULAR JUNCTION ASSESSMENT IN CHILDREN</td>
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<tr>
<td>Matthew Pitt</td>
<td>Great Ormond Street Hospital for Children, London, Clinical Neurophysiology, London, United Kingdom</td>
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<tr>
<td>590</td>
<td>QUANTIFIED ELECTROMYOGRAPHY IN CHILDREN</td>
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<tr>
<td>Karin Edelbøl Eeg-Olofsson</td>
<td>Uppsala University, Clinical Neurophysiology, Uppsala, Sweden</td>
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<td>591</td>
<td>DEMYELINATING NEUROPATHIES IN CHILDREN</td>
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<tr>
<td>Yann Perezou</td>
<td>Service d’Explorations Fonctionnelles, CHU Hôtel-Dieu, Nancy, France</td>
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### 17:10 – 18:40 SYMPOSIUM XIV.

**LÁNCHÍD ROOM**

#### THE ROLE OF INTRAOPERATIVE ELECTROPHYSIOLOGY IN THE CLINICAL PRACTICE

**Chair:** Norbert Kovács

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<th>Participant</th>
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<tbody>
<tr>
<td>592</td>
<td>INTRAOPERATIVE ELECTROPHYSIOLOGICAL EXAMINATIONS DURING DEEP BRAIN STIMULATION: ITS ROLE AND CONTROVERSIES</td>
</tr>
<tr>
<td>Norbert Kovács, István Balási</td>
<td>University of Pécs, Department of Neurology, Pécs, Hungary</td>
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<tr>
<td>593</td>
<td>REVIEW AND UPDATE ON INTRAOPERATIVE CLINICAL NEUROPHYSIOLOGY</td>
</tr>
<tr>
<td>Zoltán Mari</td>
<td>Lou Ruvo Center for Brain Health, Parkinson’s Disease and Movement Disorders Program, Las Vegas, USA</td>
</tr>
<tr>
<td>594</td>
<td>UPDATE ON TECHNOLOGICAL ADVANCEMENTS IN INVASIVE NEUROPHYSIOLOGICAL ACTIVITY MONITORING AND DEEP BRAIN STIMULATION</td>
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<td>Laszlo Grand, Zoltán Mari</td>
<td>University of Pécs, Department of Neurology, Pécs, Hungary</td>
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### 17:10 – 18:40 SYMPOSIUM XIV.

**ERZSÉBET II. ROOM**

#### FREE COMMUNICATION V.

**Chair:** Mark Hallett

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<tr>
<td>095</td>
<td>COMPREHENSIVE EVALUATION OF EMG AND BIOPSY FINDINGS SUPPORTED BY COMPUTER SIMULATIONS – PRELIMINARY STUDY</td>
</tr>
<tr>
<td>Ewa Zalewska, Biruta Kierdanszuk, Elzbieta Szmidt-Salkowska, Anna Kaminska, Malgorzata Gawel</td>
<td>Medical University of Warsaw, Department of Neurology, Warsaw, Poland</td>
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<td>096</td>
<td>LARGE INTER- AND INTRA-RATER VARIATION ON DIAGNOSTIC CRITERIA FOR AMYOTROPHIC LATERAL SCLEROSIS</td>
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<td>Birger Johnsen, Kirsten Pudgahl, Anders Fuglsang-Frederiksen, Katja Kollewe, Lejla Paracka, Reinhard Denger, Jean-Philippe Camdessanche, Wilfried Nix, Rocco Liguori, Ian Schofield, Luca Maderna, David Czeli, Christoph Newirth, Markus Weber, Vivian Drory, Alon Abraham, Mamede De Carvalho</td>
<td>Medical University of Warsaw, Clinical Neurophysiology, Aarhus, Denmark</td>
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<td>097</td>
<td>NEUROPHYSIOLOGY OF VERTIGO</td>
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<tr>
<td>Ferenc Nagy</td>
<td>Montecapo County Hospital, Kapasrov, Hungary</td>
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<td>098</td>
<td>A PROSPECTIVE, RANDOMIZED, DOUBLE-BLIND, PARALLEL-GROUP, SHAM-CONTROLLED STUDY OF THE EFFECT OF ANODAL TDCS ON ACUTE POST-THORACOTOMY PAIN</td>
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<td>Tihomir V. Ilic, Dusica Stamenkovic, Katarina Mladenovic, Nemanja Rancic, Nemanja Vasiljikovic, Esmer Fejzić</td>
<td>Medical Faculty of Military Medical Academy, Belgrade, Department of Neurology, Belgrade, Serbia</td>
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<td>099</td>
<td>MUSCLE VELOCITY RECOVERY CYCLES IN NEUROGENIC MUSCLES</td>
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<td>Agnes Witt, Anders Fuglsang-Frederiksen, Hatiec Tankisi</td>
<td>Aarhus University Hospital, Clinical Neurophysiology, Aarhus, Denmark</td>
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<td>100</td>
<td>CMAP SCAN IN DIAGNOSIS AND FOLLOW-UP OF PATIENTS WITH AMYOTROPHIC LATERAL SCLEROSIS</td>
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<tr>
<td>Emel Oguz Akarsu, Nermin Gökem Sirin, Hava Ozlem Dede, Lala Mehdi Khan, Elif Kocasoy Orhan, Mehmet Barış Baslo, Hail Atilla Idrisoglu, Ali Emre Oge</td>
<td>Istanbul University Istanbul Medical Faculty, Clinical Neurophysiology and Department of Neurology, Istanbul, Turkey</td>
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<td>101</td>
<td>EVOKEO POTTENTIALS IN MULTIPLE SCLEROSIS - STILL A USEFUL TOOL?</td>
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<tr>
<td>Anna Pokryszko-Dragan</td>
<td>Wroclaw Medical University, Department of Neurology, Wroclaw, Poland</td>
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THE ABILITY OF MAGNETOENCEPHALOGRAPHY AND SIMULTANEOUS ELECTROENCEPHALOGRAPHY TO DETECT FOCAL EPILEPTIFORM DISCHARGES

Lene Duez1, Hatice Tankisi1, Per Sidenius2, The Danish Epilepsy Surgery Team1, Anders Fuglsang-Frederiksen1, Sándor Beniczky1

1 Aarhus University Hospital, Department of Clinical Neurophysiology, Aarhus, Denmark
2 Aarhus University Hospital, Department of Neurology, Aarhus, Denmark
3 Rigshospitalet, Epilepsy Surgery Unit, Copenhagen, Denmark

PREVALENCE AND IMPACT OF SUBCLINICAL EPILEPTIFORM ACTIVITY IN ALZHEIMER’S DISEASE

András Horváth, Anna Szűcs, Gábor Barcs, Aníta Kamondi
National Institute of Clinical Neurosciences, Budapest, Hungary

REGISTERRING SLEEP OBJECTIVELY

Chair: Michel Billiard, Anna Szűcs

POLYSOMNOGRAPHIC FEATURES OF NARCOLEPSY TYPES 1 AND 2, AND OF IDIOPATHIC HYPERSOMNIA: STRENGTHS AND LIMITATIONS

Michel Billiard
Gai de Chauliac Hospital, Department of Neurology, Montpellier, France

POLYSOMNOGRAPHY: FROM THE BASIS TO THE INFORMATION CONTENT

Béla Faludi
University of Pécs, Neurology Department, Pécs, Hungary

CHANGES IN SLEEP-RELATED ABNORMAL EEG OSCILLATIONS MAY PREDICT THE THERAPEUTIC EFFICACY OF DRUGS IN MOUSE MODELS OF HUNTINGTON’S DISEASE

Sándor Kántor, János Varga, Jennifer Morton
University of Cambridge, Department of Physiology, Anatomy and Neuroscience, Cambridge, United Kingdom

POLYSOMNOGRAPHIC ASCERTAINMENT OF SLEEP-RELATED ALTERATIONS OF BREATHING CONTROL AND PATTERN

János Juhász
SRH Zentralklinikum Suhl, Innere Medizin III, Pneumologie, Beatmungs- und Schlafmedizin, Suhl, Germany

POLYSOMNOGRAPHY IN PARASOMNIAS

Anna Szűcs
National Institute of Clinical Neurosciences, Department of Neurology, Budapest, Hungary
07:30 – 10:30 TEACHING COURSE 1  ERZSÉBET II. ROOM

ULTRASOUNDOGRAPHY OF PERIPHERAL NERVES: A COMPLEMENTARY TOOL TO ELECTROPHYSIOLOGY

INTRODUCTION TO NEUROMUSCULAR ULTRASOUND
Nens van Alfen
Medical Director of Clinical Neurophysiology Laboratory, Radboud University Medical Center, Nijmegen, The Netherlands

THE COMPLEMENTARY ROLE OF ULTRASOUND IN ENTRAPMENT NEUROPATHIES
Josef Böhm
Neurologische Praxen, Berlin, Germany

THE COMPLEMENTARY ROLE OF ULTRASOUND IN DYSIMMUNE NEUROPATHIES
Zsuzsanna Arányi
Head of Clinical Neurophysiology Laboratory, Department of Neurology, Semmelweis University, Budapest, Hungary

THE COMPLEMENTARY ROLE OF ULTRASOUND IN NERVE TRAUMA
Nens van Alfen
Medical Director of Clinical Neurophysiology Laboratory, Radboud University Medical Center, Nijmegen, The Netherlands

ULTRASOUND OF NERVE TUMORS
Zsuzsanna Arányi
Head of Clinical Neurophysiology Laboratory, Department of Neurology, Semmelweis University, Budapest, Hungary

07:15 – 08:45 TEACHING COURSE 23  ISTVÁN ROOM

SEIZURE SEMIOLOGY CHANGES DURING CHILDHOOD
András Fogarasi
Department of Neurology, Epilepsy Center, Bethesda Children’s Hospital, Budapest, Hungary

07:30 – 09:00 TEACHING COURSE 11  VIEW A ROOM

VEMPS – CURRENT PERSPECTIVES
Mario Habek
Department of Neurology, University Hospital Center Zagreb, University of Zagreb, School of Medicine Zagreb, Croatia

Eleftherios S. Papathanasiou
The Cyprus Institute of Neurology & Genetics Nicosia, Cyprus

Leonel Luis
Translational Clinical Physiology Unit Institute of Molecular Medicine, Faculty of Medicine, University of Lisbon, Lisbon, Portugal

Topics:
- VEMPs methodology
- VEMPs in peripheral vestibular disorders
- VEMPs in central vestibular disorders

07:30 – 09:00 TEACHING COURSE 14  BÉLA B ROOM

INTRAOPERATIVE MICROELECTRODE RECORDING AND DEEP BRAIN STIMULATION (DBS)
Amal Mokeem
Neurosurgery Department, King Faisal Specialties Hospital & Research Center, Riyadh

07:30 – 11:30 TEACHING COURSE 9  NICN

INTRAOPERATIVE NEUROMONITORING IN THE NEUROSURGICAL PRACTICE II.
– LIVE SURGERY BROADCAST FROM THE OPERATING ROOM

Venue: National Institute of Clinical Neurosciences
1145 Budapest, Amerikai út 57.

LIVE SURGERY BROADCAST FROM THE OPERATING ROOM DEMONSTRATING INTRAOPERATIVE NEUROMONITORING
Loránd Érőss, László Entz, Dániel Fabó

08:00 – 08:45 PRACTICAL TIPS FOR TRAINEES XI. BALLROOM

NEUROMODULATION
Andrea Antal

08:00 – 08:45 PRACTICAL TIPS FOR TRAINEES XII. ERZSÉBET I. ROOM

VEPS
Letizia Leocani

08:00 – 08:45 PRACTICAL TIPS FOR TRAINEES XIII. CORSO ROOM

MEP
Markus Kofler

09:00 – 10:30 SYMPOSIUM XVI. BALLROOM

ROBOTIC HAND PROSTHESIS AND PHANTOM LIMB PAIN
Chair: Giuseppe Granata

S108
RESTORATION OF SOMATOSENSORY FEEDBACK AND BIDIRECTIONAL REAL-TIME CONTROL OF A PROSTHETIC HAND USING PERIPHERAL NERVOUS SYSTEM SIGNALS
Giuseppe Granata
Università Cattolica del Sacro Cuore, Department of Neuroscience, Rome, Italy

S109
MAGNETOEENCEPHALOGRAPHIC-BASED BRAIN–MACHINE INTERFACE ROBOTIC HAND FOR CONTROLLING SENSORMOTOR CORTICAL PLASTICITY AND PHANTOM LIMB PAIN
Takufumi Yanagiawa1, Ryohui Fukuma2, Ben Seymour3, Kouichi Hosomi2, Haruhiko Kishima3, Hiroshi Yokoi4, Masayuki Hiraoka1, Toshihiko Yoshimine1, Yukiyasu Kamitani2, Youichi Saitoh2
1 Osaka University, Endowed Research Division of Clinical Neuroengineering, Osaka, Japan
2 Osaka University, Department of Neurosurgery, Osaka, Japan
3 University of Cambridge, Neurology, Cambridge, United Kingdom
4 The University of Electro-Communications, Engineering, Tokyo, Japan
5 Kyoto University, Department of Information Science and Technology, Kyoto, Japan
S110
PHANTOM LIMB PAIN – A CORRELATE OF MALADAPTIVE NEURAL PLASTICITY
Robin Bekrater-Bodmann
Central Institute of Mental Health, Department of Cognitive and Clinical Neuroscience, Mannheim, Germany

S111
BRAIN REORGANIZATION FOLLOWING THE USE OF ROBOTIC HAND PROSTHESIS IN FOUR AMPUTEES
Riccardo Di Iorio
Università Cattolica del Sacro Cuore, Department of Neurology, Rome, Italy

09:00 – 10:30 SYMPOSIUM XVII.
THE NEUROPHYSIOLOGY OF SLEEP EEG CONSTITUENTS 1.
Chair: Péter Halász, Anita Lüthi

S112
CELLULAR BASIS OF SLEEP OSCILLATIONS
László Acsády
Institute of Experimental Medicine, Hungarian Academy of Sciences, Laboratory of Thalamic Research, Budapest, Hungary

S113
THE THALAMO-CORTICAL SYSTEM AS CENTRAL ACTOR OF NREM SLEEP
Magor Lőrincz
University of Szeged, Department of Physiology, Anatomy and Neuroscience, Szeged, Hungary

S114
SLEEP SPINDLES AND THEIR BIOLOGICAL SIGNIFICANCE
Anita Lüthi
University of Lausanne, Department of Fundamental Neurosciences (DFN), Lausanne, Switzerland

S115
SLEEP SLOW WAVE OSCILLATION AND HOMEOSTASIS
Róbert Bódicz
Semmelweis University, Institute of Behavioural Sciences, Budapest, Hungary

S116
THE HETEROGENEITY OF SLEEP SLOW WAVES
Péter Ujma
Semmelweis University, Institute of Behavioural Sciences, Budapest, Hungary

09:00 – 10:30 SYMPOSIUM XVIII.
AXONAL EXCITABILITY AND DIABETIC POLYNEUROPATHY
Chair: Hatice Tankisi, Hilmi Uysal

S117
EXCITABILITY TESTING IN THE 21ST CENTURY
Hugh Bostock
Institute of Neurology, University College London, School department, London, United Kingdom
O125
LONG-TERM OUTCOMES OF PATIENTS WITH ULNAR NEUROPATHY AT THE ELBOW ACCORDING TO PATHOPHYSIOLOGY OF THE NERVE LESION
Gregor Omejec, Tomaž Žgur, Simon Podnar
University Medical Center Ljubljana, Institute of Clinical Neurophysiology, Ljubljana, Slovenia

O126
RELATION BETWEEN NERVUS TIBIALIS CONDUCTION VELOCITY VALUES, SOMATOSENSORY EVOKED POTENTIALS PARAMETERS VALUES AND SPATIAL PERCEPTION THRESHOLD IN PATIENTS WITH SUBCLINICAL DIABETIC POLYNEUROPATHY
Zoran Peric1, Stevo Lukic2, Aleksandar Stojačić3, Biljana Zivadinovic4
1 Department of Neurology, Medical Faculty University of Niš, Department of Neurology, Niš, Serbia
2 Clinical Centre of Niš, Clinic of Neurology, Niš, Serbia

O127
NEUROPHYSIOLOGICAL LOCALISATION OF ULNAR NEUROPATHY AT THE ELBOW: VALIDATION OF DIAGNOSTIC CRITERIA DEVELOPED BY A TASKFORCE OF THE DANISH SOCIETY OF CLINICAL NEUROPHYSIOLOGY
Kirsten Pugdal1, Sándor Beniczky1, Benedikte Wanscher2, Erisela Qerama1, Birger Johnsen3, Martin Ballegaard4, Krisztina Benedek1, Jørgen Sønderborg5, Anders Fuglsang-Friederksen6
1 Aarhus University Hospital, Department of Clinical Neurophysiology, Aarhus, Denmark
2 Rigshospitalet Copenhagen, Clinical Neurophysiology, Copenhagen, Denmark
3 Rigshospitalet, Clinical Neurophysiology, Copenhagen, Denmark
4 Mølholm private hospital, Clinical Neurophysiology, Vejle, Denmark

O128
EVALUATION OF MUSCLE FIBERS DIAMETER USING ANALYSIS OF MOTOR UNIT POTENTIALS
Ewa Zalewska
Institute of Biocybernetics and Biomedical Engineering, PAS, Department of Neuroengineering, Warsaw, Poland

A36
METHODOLOGY FOR RECORDING RELIABLE WRIST EXTENSORS AND WRIST FLEXORS COMPOUND MUSCLE ACTION POTENTIALS
João Leote1, Michelena Campoloto2, Larisa Pascari3, Tânia Marques1, Verónica Teixeira1, Jordi Casanova-Mollà1, Joseph Vall-Soler1
1 Instituto de Biofísica de Engenheiro Bionômico, Faculdade de Ciências, Universidade de Lisboa, Portugal, Neurosurgery Department, Hospital de o Orta, Alcorcón, Spain
2 Unitat d’Electromyografia, Servei de Neurologia, Hospital Clínic, Universitat de Barcelona, IDIBAPS, Institut d’Investigació Biomèdica August Pi i Sunyer, Barcelona, Spain
3 Faculdade de Ciências, Universidade de Lisboa, Portugal, Neurosurgery Department, Hospital de o Orta, Alcorcón, Spain

09:00 – 10:30
FREE COMMUNICATION VII.

NEUROPHYSIOLOGY IN PEDIATRICS
Chair: Delphine Taussig, Yan Perea

O129
INTELLECTUAL FUNCTIONING AND P300 POTENTIAL IN ADOLESCENTS WITH NEWLY DIAGNOSED MULTIPLE SCLEROSIS
Sławomir Kroczka1, Urszula Stolarska2, Izabela Witek1, Krystyna Fiederer1
1 Jagiellonian University, Chair of Child and Adolescent Neurology, Kraków, Poland
2 Laboratory of Neuropsychology, University Children’s Hospital, Kraków, Poland

10:30 – 10:45
Coffee Break

ECCN2017
Friday, 1 September 2017

O130
MOTOR REPRESENTATION AREAS OF UPPER LIMB MUSCLES IN HEALTHY CHILDREN, ADOLESCENTS AND ADULTS – A DEVELOPMENTAL NAVIGATED TMS STUDY
Laura Saisaenen1, Mervi Könönen2, Eini Niskanen3, Timo Lintu4, Niina Lintu4, Ritva Vanninen5, Petro Julkunen5, Sara Määtää1
1 Kuopio University Hospital, Department of Clinical Neurophysiology, Kuopio, Finland
2 Kuopio University Hospital, Department of Radiology, Kuopio, Finland
3 University of Eastern Finland, Applied Physics, Kuopio, Finland
4 University of Eastern Finland, Department of Physiology, Kuopio, Finland
5 University of Eastern Finland, Department of Clinical Neurophysiology, Kuopio, Finland

O131
NON-INVASIVE, MULTIMODAL ANALYSIS OF CORTICAL ACTIVITY, BLOOD VOLUME AND NEUROVASCULAR COUPLING IN INFANTILE SPASTS USING EEG-FNIRS MONITORING
Emilie Boureil-Ponchet, Mahdil Mahmoudzadeh, Fabrice Wallois
University of Poitiers, France, INSERM U1010 GOMM, Poitiers, France

O132
AN EEG-BASED DECISION-SUPPORT SYSTEM FOR DIAGNOSIS AND PROGNOSIS OF AUTISM SPECTRUM DISORDER
Jan Srengers1, Erik Juarez Martinez2, Sonja Simprag1, Floor Janssen3, Chantal Vlaskamp1, Bob Oranje1, Simon-Shlomo Poil2, Klaus Linkenkaer-Hansen3, Hilko Bruining4
1 Brain Center Rudolf Magnus, University Medical Center Utrecht, Department of Psychiatry, Utrecht, The Netherlands
2 VU University, Department of Integrative Neuropsychology, Center for Neuroscience, Amsterdam, The Netherlands
3 Brain Center Rudolf Magnus, University Medical Center Utrecht, Department of Neurology, Utrecht, The Netherlands
4 Brain Center Rudolf Magnus, University Medical Center Utrecht, Department of Neuroradiology, Utrecht, The Netherlands

O133
OBJECTIVE DETECTION OF CORtical GLucose METABolIC ABNORMALITIES IN CHILDREN WITH EPILEPSY SURGERY: VALIDATION WITH INTRACRANIAL EEG
Cisaba Juhasz1, Vinod Pilli1, Eishi Atano2, Ajay Kuma1r, Sandeep Sood1, Harry Chugani1, Aimee Luat2, Jeong-Won Jeong3
1 Wayne State University School of Medicine, Pediatrics and Neurology, Detroit, USA
2 Wayne State University School of Medicine, Pediatrics and Neurosurgery, Detroit, USA

O134
THE DYSFUNCTION OF AUTONOMIC NERVOUS SYSTEM IN CHILDREN WITH PAROXYSMAL DISORDERS
Aleksandra Gergont
Jagiellonian University, Kraków, Chair of Child and Adolescent Neurology, Kraków, Poland

O135
SENSORY EVOKED POTENTIALS AND CENTRAL MOTOR CONDUCTION TIMES IN CHILDREN WITH DYSTONIA HELP PREDICT OUTCOMES FROM DEEP BRAIN STIMULATION (DBS)
Verity McClelland1, Doreen Fialho2, Denise Flexney-Brice3, Graham Holder3, Markus Elze3, Hortensia Gimeno4, Aha Siddiqui5, Richard Selway6, Perry Mills1, Jean-Pierre Lin1
1 King’s College London, Basic and Clinical Neuroscience, London, United Kingdom
2 King’s College Hospital, London, Department of Clinical Neurophysiology, London, United Kingdom
3 Evelina London Children’s Hospital, London, Clinical Neurophysiology, London, United Kingdom
4 Evelina London Children’s Hospital, London, Clinical Neurophysiology, London, United Kingdom
5 Moseley Eye Hospital, London, Clinical Neurophysiology, London, United Kingdom
6 F. Hoffmann-La Rche AG, Biostatistics, Basel, Switzerland
7 Evelina London Children’s Hospital, London, Children’s Neurosurgery, London, United Kingdom
8 Evelina London Children’s Hospital, London, Neurosurgery, London, United Kingdom
9 King’s College Hospital, London, Functional Neurosurgery, London, United Kingdom
Friday, 1 September 2017

10:45 – 11:45  
**ECCN General Assembly**  
**BALLROOM**

10:45 – 12:15  
**TEACHING COURSE 18**  
**“NEUROPATHIC” OR “MYOPATHIC”: PITFALLS OF NEEDLE EMG TESTING**  
**LÁNCHÍD ROOM**

Yann Pereon  
Head of Clinical Neurophysiology in Nantes, France

10:45 – 12:15  
**TEACHING COURSE 22**  
**VIDEO-EEG COURSE: HYPERMOTOR SEIZURES**  
**BÉLA B ROOM**

György Rásonyi  
Department of Clinical Neurophysiology, Neurocenter, Rigshospitalet, Copenhagen, Denmark

Anna Kelemen  
Epilepsy Center, Department of Neurology, National Institute of Clinical Neuroscience, Budapest, Hungary

11:45 – 12:45  
**POSTER SESSION II.** (detailed program please see page 75 - 87)  
**BALLROOM**

Brain stimulation II.  
(CN and neuroimaging) (P299 – 311)

CN of the autonomic nervous system (P312 – 317)

Intraoperative neurophysiological methods (P318 – 322)

Neurophysiology in the intensive care unit (P323 – 326)

Cutting edge techniques in CN (P327 – 332)

CN in the diagnosis and treatment of diseases II. (P333 – 364)

Neurophysiology of brain/mind problem (P373 – 377)

Neurophysiology of cognition (P378 – 385)

11:45 – 12:05  
**CLINICAL ASPECT OF INTRAOPERATIVE NEUROMONITORING**  
**CORSO ROOM**

Zoltán Horváth  
Department of Neurology, University of Szeged, Hungary

12:45 – 13:45  
**Lunch Break**

13:45 – 15:15  
**SYMPOSIUM XIX.**  
**PRIMARY HEADACHES AND CLINICAL NEUROPHYSIOLOGY**  
**BALLROOM**

Chair: Mark Hallett

**S139**  
**PHOTOPHOBIA**  
Mark Hallett  
National Institute of Neurological Disorders and Stroke, NIH, Human Motor Control Section, Bethesda, USA

**S140**  
**HIGH FREQUENCY EEG OSCILLATIONS IN COGNITIVE DECLINE AND AGING**  
Krisztaina Benedek, Martin Lauritzen  
1 Rigshospitalet Gistrup, Clinical Neurophysiology, Gistrup, Denmark  
2 University of Copenhagen, Department of Neuroscience and Pharmacology, Copenhagen, Denmark

**S141**  
**AGING AND AUTOMATIC DETECTION OF DYSVI SION: EVENT-RELATED POTENTIAL STUDIES**  
István Czigler, Zsófia Gaál, István Sulykos  
Institute of Cognitive Neuroscience and Psychology, HAS, Department of Cognitive Psychology, Budapest, Hungary

**S142**  
**ATTENTION PARAMETERS AND ERP CORRELATES IN AGING INDIVIDUALS**  
Kathrin Finke, Natan Napierkowski, Iris Wiegand, Anders Petersen, Hermann J. Müller, Thomas Töllner  
1 Jena University Hospital and LUH Jena; University of Jena, Psychology, Jena, Germany  
2 Ludwig-Maximilians-Universität München (LMU München); Psychology, Munich, Germany  
3 Max Planck Institute for Human Development, Human Development, Berlin, Germany  
4 Copenhagen University, Psychology, Copenhagen, Denmark

**S143**  
**EMOTIONS, EPISODIC MEMORY AND ERROR MONITORING – AGE-DEPENDENT EVENT-RELATED POTENTIAL CHARACTERISTICS**  
Márk Molnár  
Institute of Cognitive Neuroscience and Psychology, HAS, Experimental Psychology, Budapest, Hungary

**S144**  
**CORTICAL SPREADING DEPRESSION, RELEVANCE TO MIGRAINE AND ACUTE BRAIN INJURY IN HUMANS, AND NEW MECHANISMS**  
Martin Lauritzen  
Rigshospitalet Gistrup, Clinical Neurophysiology, Gistrup, Denmark

**S145**  
**INVESTIGATING THE KYNURENINE PATHWAY IN A NOVEL – IN VITRO – MODEL: POSSIBILITY FOR SIMULTANEOUS BIOCHEMICAL, HISTOLOGICAL AND ELECTROPHYSIOLOGICAL ASSESSMENTS**  
Judit Herédi, Gábor Veres, Anikó Magyariné Berkó, László Vécsei, József Toldi, Levente Gellért  
1 University of Szeged, Department of Physiology, Anatomy and Neuroscience, Szeged, Hungary  
2 University of Szeged, Department of Neurology, Szeged, Hungary
THE MODULATION OF CSD IN ANIMALS  
Arpad Pardutz  
University of Szeged, Department of Neurology, Szeged, Hungary

IMAGING BIOMARKERS OF PRIMARY HEADACHE DISORDERS  
Zsigmond Tomas Kincses, Nikoletta Szabo, Peter Farago, Andras Kiraly, Laszlo Vecsei  
University of Szeged, Department of Neurology, Szeged, Hungary

EVOKED POTENTIAL STUDIES IN MIGRAINE: OVERVIEW OF RESULTS AND HINTS TO NEUROMODULATION THERAPY  
Judit Afra  
National Institute of Clinical Neurosciences, Budapest, Outpatient Department, Budapest, Hungary

PRESURGICAL EVALUATION OF CHILDREN WITH PHARMACORESISTANT EPILEPSY  
Chair: Delphine Taussig

VIDEO-EEG MONITORING IN YOUNG CHILDREN  
Monika Eisermann  
Paris Descartes University, Department of Clinical Neurophysiology, Paris, France

PERIctal LATERALIZING SIGNS IN CHILDHOOD SEIZURES  
András Fogarasi  
Bethesda Children’s Hospital, Head of Neurology Department, Budapest, Hungary

STEREOELECTROENCEPHALOGRAPHY (SEEG) IN CHILDREN  
Delphine Taussig  
Fondation Rothschild, Paris, Pandiatric neurosurgery, Paris, France

INVESTIGATING EFFECTIVE CONNECTIVITY IN THE MOTOR NETWORK WITH TMS-EVOKED CORTICAL POTENTIALS  
Karita S.-T. Salo1, Tuomas P. Mutanen1,2, Selja Vaalto1,2, Matti Stenroos1, Niko Makela1,2, Risto J. Ilmoniemi1,2  
1Department of Neuroscience and Biomedical Engineering, Aalto University School of Science, Espoo, Finland  
2Biomag Laboratory, HUS Medical Imaging Center, Helsinki University Hospital, Helsinki, Finland

PREPULSE INHIBITION IS DEFICIENT IN HEMIFACIAL SPASM  
Aysegul Gunduz, Meral E. Kiziltan  
Istanbul University, Cerrahpasa School of Medicine, Department of Neurology, Istanbul, Turkey

DEACTIVATION OF DEFAULT MODE NETWORK IN FOCAL EPILEPSY, INFERRRED BY SINGLE PULSE ELECTRICAL STIMULATION  
Mihai Dragoş Malia1, Cristian Donos2, Andrei Barborica1, Ioana Mindruta1, Irina Popa1, Mirola Ene1, Sandor Benicsky1  
1Danish Epilepsy Center, Department of Clinical Neurophysiology, Danmark, Denmark  
2University of Texas Health Science Center at Houston, Department of Neurosurgery, Houston, USA  
3University of Bucharest, Physics Department, Bucharest, Romania

PRE-SEIZURE BRAIN NETWORKS ARCHITECTURE AS INDEX OF PREDICTION IN EPILEPTIC SEIZURE  
Francesca Miraglia1, Fabrizio Vecchi1, Catello Vollomo1, Filomena Fuggetta1, Beatrice Cioni1, Paolo Maria Rossini2  
1IRCCS San Raffaele Pisana, Brain Connectivity Laboratory, Rome, Italy  
2Università Cattolica del Sacro Cuore, Department of Neurology, Rome, Italy

A FUNCTIONAL CONNECTIVITY ANALYSIS OF PATIENTS WITH TEMPORAL LOBE EPILEPSY WITH DIFFERENT PROPAGATION PATTERNS  
Neermin Gorkem Sirin1, Elif Kurt1, Çağdem Ulasoglu Yıldız2, Ani Kicik1, Zerrin Karaaslan1, Ali Bayram1, Tamer Demiralp1, Candan Gurses1  
1Istanbul University, Istanbul Faculty of Medicine, Department of Neurology, Istanbul, Turkey  
2Istanbul University, Nobis Behret Life Sciences Research Laboratory, Istanbul, Turkey

MAPPING THE FUNCTION AND CONNECTIVITY OF THE CINGULATE GYRUS USING STEREO-ENCEPHALOGRAPHY (SEEG)  
Irina Popa1, Cristian Donos2, Dragos Mihai Malia1, Andrei Barborica1, Edouard Hirsch3, Julia Scholly3, Maria Paola Valenti-Hirsch1, Anca Arbune1, Andrei Danesa1, Ioana Mindruta1  
1Emergency University Hospital Bucharest, Neurology Department, Bucharest, Romania  
2University of Bucharest, Physics Department, Bucharest, Romania  
3Strasbourg University Hospital, Neurology Department, Strasbourg, France  
4“Carol Davila” University of Medicine and Pharmacy, Neurology Department, Bucharest, Romania

EXCESSIVE INHIBITORY VISUOMOTOR CONNECTIONS IN PARKINSON’S DISEASE WITH FREEZING OF GAIT  
Gionata Strigaro, Chiara Pizzamiglio, Paolo Barbero, Giacomo Tondo, Luca Magistrelli, Cristina Rolovelli, Cristoforo Comi, Roberto Cantello  
University of Pavia (Oriente), Department of Translational Medicine, Section of Neurology, Novara, Italy

HUMAN NEUROPHYSIOLOGY TO DIAGNOSE, PREVENT AND TREAT PAIN  
Luis Garcia-Larrea  
Neurological Hospital of Lyon, Inserm & University Claude Bernard Lyon, Lyon, France

RTMS AS A ROUTINE TREATMENT IN NEUROLOGY, ARE WE READY YET?  
Letizia Leocani  
Senior Researcher, Coordinator of Didactic Area of the Neurological Department, San Raffaele Scientific Institute, Milan, Italy
17:10 – 18:45 FREE COMMUNICATION IX.

NEUROPHYSIOLOGY OF THE AUTONOMIC NERVOUS SYSTEM

Chair: Vildan Yayla, Mario Habek

0160 THE ROLE OF BRAINSTEM IN SYNCOPE DEVELOPMENT
Mario Habek1, Luka Crnosija1, Tereza Gabelic2, Ivan Adamec2, Magdalena Krbot Skoric2
1 University of Zagreb, School of Medicine, Department of Neurology, Zagreb, Croatia
2 University Hospital Center Zagreb, Department of Neurology, Zagreb, Croatia

0161 THE EFFECT OF FOOD INTAKE ON PATIENTS WITH POSTURAL ORTHOSTATIC TACHYCARDIA SYNDROME
Berislav Ruska1, Luka Crnosija1, Magdalena Krbot Skoric2, Ivan Adamec2, Tereza Gabelic2, Mario Habek1
1 University of Zagreb, School of Medicine, Department of Neurology, Zagreb, Croatia
2 University Hospital Center Zagreb, Department of Neurology, Zagreb, Croatia

0162 POSTPRANDIAL HYPOTENSION IN NEUROLOGICAL DISEASES: A SYSTEMATIC REVIEW AND META-ANALYSIS
Magdalena Krbot Skoric1, Antun Pavelic2, Luka Crnosija2, Mario Habek2
1 University of Zagreb, School of Medicine, Department of Neurology, Zagreb, Croatia
2 University Hospital Center Zagreb, Department of Neurology, Zagreb, Croatia

17:10 – 18:45 SYMPOSIUM XXIII.  ERZSÉBET I. ROOM

THE NEUROPHYSIOLOGY OF SLEEP 2.

Chair: Péter Halász

S167 SENSORY WORKUP DURING NONREM SLEEP
Helene Bastuji
Centre de Recherche en Neurosciences de Lyon, Neuroteam, Lyon, France

S168 CORtical UNIT AND FIELD ACTIVITY DURING SLEEP CYClicity
Istvan Ulbert
Institute of Cognitive Neuroscience and Psychology, HAS, Budapest, Hungary

S169 SLEEP SPINDLES AND EPILEPSY
Daniel Fabo
National Institute of Clinical Neurosciences, Budapest, Epilepsy Unit, Budapest, Hungary

S170 REM - DREAMING - EMOTIONS: THE NEUROPHYSIOLOGY OF NIGHTMARE DISORDER
Péter Simor1, Borbála Bláskovics1, Vivien Reichler1, Richard Reichler2
1 Eötvös Lorand University, Department of Affective Psychology, Budapest, Hungary
2 Budapest University of Technology and Economics, Cognitive Science Department, Budapest, Hungary

17:10 – 18:45 FREE COMMUNICATION X.

NEUROPHYSIOLOGY OF COGNITION

Chair: Jonathan Cole, Nathan Gadot

O171 THE ROLE OF CORTEX-BRAINSTEM INTEGRATION IN AUDITORY PERCEPTION
Lyubov Oknina1, Adila Usupova1, David Pitschilauri1, Vitaly Podlepich1, Irina Skoriatina1
1 Institute of Higher Nervous Activity and Neurophysiology of RAS (IHNA&NPh RAS), Department of Clinical Neurophysiology, Moscow, Russia

O172 CONFLICT RESOLUTION INFLUENCES MOTOR PREPARATION OF STEP INITIATION
Arnaud Delval, Aurore Braquet, Céline Tard, Luc Defebvre, Philippe Derambure, Philippe Derambure, Kathy Dujardin
Univ. Lille, Inserm, U1171 - Degenerative & Vascular Cognitive Disorders, F-59000 Lille, France, Clinical Neurophysiology, Lille, France

O173 UNILATERAL DEEP BRAIN STIMULATION OF SUBTHALAMIC NUCLEUS DOES NOT AFFECT REACTIVE INHIBITION
Giovanni Mirabelli
Sapienza University of Rome, Department of Physiology and Pharmacology, Rome, Italy

O174 PRELIMINARY RESULTS OF TESTING THE RECOVERIX SYSTEM ON STROKE PATIENTS
Danut Irimia1, Rupert Orter1, Francisco Fernandes1, Christoph Guger1, Alexander Heilinger1, Martin Walchshofer1, Johannes Gruenwald2
1 G.tec Medical Engineering GmbH, Research & Development, Schiedlberg, Austria
2 Guger Technologies Oe, Research & Development, Schiedlberg, Austria

Friday, 1 September 2017

Friday, 1 September 2017
0175 HIGH-DENSITY ERPS FOR WORKING MEMORY FOR FACES, WORDS, AND FIGURES IN YOUNG AND ELDER HEALTHY VOLUNTEERS
Elena Mnatsakanian
Institute of Higher Nervous Activity & Neurophysiology RAS, Human Higher Nervous Activity Lab, Moscow, Russia

0176 LTP-LIKE CORTICAL PLASTICITY IN AD PATIENTS: A NOVEL BIOMARKER OF DISEASE PROGRESSION
Francesco Di Lorenzo1, Caterina Motta1, Maria Concerta Pellicciari1, Viviana Ponzo1, Sonia Bonni2, Carlo Caltagirone3, Alessandro Martorana1, Giacomo Koch1
1 ICS Fondazione Santa Lucia, Non-Invasive Simulation Unit, Rome, Italy
2 University of Rome “Tor Vittoria”, Medicine Dei Sistemi, Rome, Italy

17:10 – 18:45 FREE COMMUNICATION XI. LÁNCHÍD ROOM
INTRAOPERATIVE NEUROPHYSIOLOGY
Chair: Amal Mokeem, Antonio Martins da Silva

0177 NOVEL METHOD OF INTRAOPERATIVE OCULAR MOVEMENT MONITORING USING A PIEZOELECTRIC DEVICE: EXPERIMENTAL STUDY OF OMNAPP (OCULAR MOTOR NERVE ACTIVATING PIEZOELECTRIC POTENTIALS) AND CLINICAL APPLICATION FOR SKULL BASE SURGERIES
Kiyohiko Sakata
Kurume University, Department of Neurosurgery, Kurume, Japan

0178 CORRELATION BETWEEN POSTOPERATIVE VISUAL OUTCOME AND INTRAOPERATIVE VISUAL EVOKED POTENTIALS DURING ENDOSCOPIC TRANSSPHENOIDAL SURGERY
Yui Nagata
Kurume University, Department of Neurosurgery, Fukuoka, Japan

0179 INTRAOPERATIVE BLINK REFLEX IN MICROVASCULAR DECOMPRESSION FOR HEMIFACIAL SPASM. A CASE REPORT AND PROPOSAL OF A NEW METHOD TO MONITOR THE EFFICIENCY OF DECOMPRESSION
Dimitrios Kefalas, Frederik Enders, Daniel Haenggi
University Hospital Mannheim, Department of Neurosurgery, Mannheim, Germany

0181 USEFULNESS OF TRANSCRANIAL MOTOR EVOKED POTENTIAL DURING SURGERY FOR GLIOMAS LOCATED CLOSE TO THE MOTOR PATHWAY
Nobuyuki Takeshige, Keiko Suematsu, Shinji Nakashima, Yui Nagata, Kiyohiko Sakata, Motohiro Morioka
Kurume University, Neurosurgery, Fukuoka, Japan

17:10 – 18:45 SYMPOSIUM XXIV. ERZSEBET II. ROOM
NEUROPLASTICITY IN PHYSICAL THERAPY
Chair: Ann Abdel Kader

0182 INTRODUCTION TO NEUROPLASTICITY AND ITS APPLICATION IN NEUROREHABILITATION
Salma Marzouk
Cairo University, Department of Neurophysiology, Cairo, Egypt

S183 PHYSIOLOGIC BASIS OF NEUROPLASTICITY
Hesham Nafia
Cairo University, Neurophysiology Laboratory, Cairo, Egypt

S184 EFFECT OF DIFFERENT FREQUENCIES OF REPETITIVE TRANSCRANIAL MAGNETIC STIMULATION ON COGNITIVE FUNCTION IN STROKE
Heba Raafat1, Ebtsam Fahmy2, Sandra Ahmed3, Abdulaleem Atteya1, Tahani Moussa3
1 Cairo University, Clinical Neurophysiology, Faculty of Medicine, Cairo, Egypt
2 Cairo University, Department of Neurology, Cairo, Egypt
3 Cairo University, Physical Therapy for Neuromuscular Disorders and its surgery, Cairo, Egypt

S185 THE EFFECT OF BILATERAL ARM TRAINING ON MOTOR AREAS EXCITABILITY IN CHRONIC STROKE PATIENTS
Walaa Ragab1, Moshera Darweesh1, Mohamed El Tamawy2, Ann Abdel Kader3
1 Faculty of Physical Therapy - Cairo University, Physical Therapy for Neuromuscular Disorders and its surgery, Cairo, Egypt
2 Faculty of Medicine - Cairo University- Egypt, Department of Neurology, Cairo, Egypt
3 Faculty of Medicine - Cairo University- Egypt, Clinical Neurophysiology, Cairo, Egypt

S186 EFFECT OF RECIProCAL PEDALING EXERCISE ON CORTICAL REORGANIZATION AND GAIT IN STROKE PATIENTS
Mahmoud Rezk1, Moshera Darweesh1, Mohamed ElTamawy2, Mye Basheer3
1 Faculty of Physical Therapy- Cairo University, Physical Therapy for Neuromuscular Disorders and Its Surgery, Cairo, Egypt
2 Faculty of Medicine- Cairo University- Egypt, Department of Neurology, Cairo, Egypt
3 Faculty of Medicine- Cairo University- Egypt, Clinical Neurophysiology, Cairo, Egypt

S187 INFLUENCE OF REPETITIVE TRANSCRANIAL MAGNETIC STIMULATION ON COGNITIVE AND MOTOR PERFORMANCE IN PARKINSON’S DISEASE PATIENTS
Mohamed S. El Tamawy1, Moshera H. Darwish1, Amira M. El Gohary2, Heba A. Khalifa3
1 Cairo University, Neurology, Faculty of Medicine, Cairo, Egypt
2 Cairo University, Neuromuscular disorders and its surgery, Faculty of Physical Therapy, Cairo, Egypt
3 Cairo University, Clinical Neurophysiology, Faculty of Medicine, Cairo, Egypt

S188 THE ROLE OF REPETITIVE TRANSCRANIAL MAGNETIC STIMULATION IN TREATMENT OF DIABETIC POLYNEUROPATHIC RESISTANT PAIN
Ann Abdel Kader1, Amira El Gohary1, Husam Muradi2, Dina El Salmawy3
1 Cairo University, Clinical Neurophysiology, Faculty of Medicine, Cairo, Egypt
2 Cairo University, Neurology, Faculty of Medicine, Cairo, Egypt
09:00 – 10:30  PLENARY LECTURES
Ballroom

Chair: Anita Kamondi

NEUROGRAPHY – DID YOU THINK OF THIS?
Erik Stålberg
Uppsala University, Department of Clinical Neurophysiology, Uppsala, Sweden

THE EMERGENCE OF A CIRCUIT MODEL FOR ADDICTION: SYNAPTIC MECHANISMS AND IMPLICATIONS FOR THERAPY
Christian Lüscher
University Hospital Geneva, Department of Basic Neuroscience & Clinic of Neurology, Geneva, Switzerland

10:30 – 11:00 Coffee Break

11:00 – 12:30 SYMPOSIUM XXV.
Ballroom

THE MYSTERY OF CEREBELLUM
Chair: Martin Bares, Mario Manto

CEREBELLAR CONTRIBUTIONS TO FEAR BEHAVIOUR
Charlotte Lawrenson, Stella Koutsikou, Bridget Lumb, Richard Apps
University of Bristol, School of Physiology, Pharmacology and Neuroscience, Bristol, United Kingdom

THE ROLE OF THE CEREBELLUM IN MOTION CONTROL
Mario Manto
FIME-ULB Belgium, ISM GRIM, Brussels, Belgium

THE ROLE OF THE CEREBELLUM IN TREMOR GENESIS
Andrea Kovács1, Nándor Pintér2, Anita Kamondi3
1 Semmelweis University, János Semmée Beatles Doctoral School of Neurosciences, National Institute of Clinical Neurosciences, Department of Neurology, Budapest, Hungary
2 Fortis Institute of Neuroscience, Neuroradiology Research, Amherst, NY, USA
3 National Institute of Clinical Neurosciences, Semmelweis University, Department of Neurology, Budapest, Hungary

THE ROLE OF THE CEREBELLUM IN MOVEMENT DISORDERS
Martin Bares
Masaryk University, Brno, Czech Republic, 1st Department of Neurology, Brno, Czech Republic

11:00 – 12:30 SYMPOSIUM XXVI.
Erzsébet I. Room

PRESURGICAL EVALUATION IN EPILEPSY SURGERY
Chair: Loránd Erőss

PHYSIOLOGICAL PROPERTIES OF THE SEIZURE ONSET ZONE AND BRAIN CONNECTIVITY: INSIGHTS GAINED FROM CALLOSOTOMY PROCEDURES
A毗邻 Mehta
Northwestern University, Department of Neurosurgery, Illinois, USA

11:00 – 12:30 SYMPOSIUM XXVII.
Lánchíd Room

THE INTERICTAL AND ICTAL BEHAVIOUR OF EPILEPTIC NEURONS
Chair: Martin Bares

DIFFERENT REGION-SPECIFIC NETWORKS SUSTAIN FOCAL SEIZURES WITH A FAST-ACTIVITY ONSET: EVIDENCE FROM PATIENTS AND ANIMAL MODELS
Marco De Curtis
Fondazione IRCCS Istituto Neurologico Carlo Besta, Epilepsy Unit, Milan, Italy

GENERATION OF HEALTHY AND PATHOLOGICAL SYNCHRONOUS EVENTS IN THE HIPPOCAMPUS: MODULATION OF CELLULAR AND NETWORK PARAMETERS RESULTS IN ALTERED DYNAMICS
Attila Gulyas
Institute of Experimental Medicine, Hungarian Academy of Sciences, Laboratory of Cerebral Cortex Research, Budapest, Hungary

11:00 – 12:30 FREE COMMUNICATION XII.
Erzsébet II. Room

BRAIN STIMULATION 2.
Chair:

SAFETY AND EFFECTS ON MOTOR CORTEX EXCITABILITY OF FIVE CLOSELY REPEATED CATHODAL TRANSCRANIAL DIRECT CURRENT STIMULATIONS
Antonino Uncini1, Filippo Zappasodi1, Gabriella Musumeci1, Riccardo Navarra1, Massimo Da Lazzaro2
1 University of Pisa, Department of Clinical and Experimental Medicine, Pisa, Italy
2 University of Siena, Department of Neurological and Neurosurgical Sciences, Siena, Italy

INTERHEMISPHERIC PROCESSING IN HYPERKINETIC MOVEMENT DISORDERS
Tommaso Bocci1, Davide Barloscio1, Laura Parenti1, Anna De Rosa1, Simone Rossi1, Alberto Priori1, Ferdinando Sartucci1
1 University of Milan, Department of Neurosciences, Milan, Italy
11:00 – 12:30 FREE COMMUNICATION XIII.
NEUROPHYSIOLOGY IN THE DIAGNOSIS AND TREATMENT OF DISEASES 2.
Chair: Tihomir Ilic

0209
IMPROVED DIAGNOSIS OF CERVICAL MYELOPATHY THROUGH MULTI-MODAL NEUROPHYSIOLOGICAL ASSESSMENTS
Jan Rosner1, Catherine Jutzeler2, Michele Hubli1, John Kramer1, Armin Curt1
1 Bulbuz University Hospital, Spinal Cord Injury Center, Zurich, Switzerland
2 KUGO, KUGO (International Collaboration on Repair Discoveries), Vancouver, Canada

0210
ABNORMAL MOVEMENTS MIMICKING TREMOR IN AMYOTROPIC HANDS IN ADULTS
Joao Leote1, Judith Navarro-Otano1, Jordi Casanova-Molla1, Joseph Vallis-Sole1
1 Instituto de Biofísica e Engenharia Biomédica, Faculdade de Ciências, Universidade de Lisboa. Portugal, Neurosurgery Department, Hospital Garcia de Orta. Almada. Portugal, Almada, Portugal
2 Universitat de Barcelona, Servei de Neurologia, Hospital Clinic, Universitat de Barcelona, IDIBAPS (Institut d’Investigació Biomèdica August Pi i Sunyer), Neurology, Barcelona, Spain

0211
FIRST SEEG EXAMINATION IN UNIVERSITY OF PÉCS
Marton Toth1, Zsolt Horvath1, Tamas Doczi2, Diana Kuperczko1, Jozsef Janszky1
1 University of Pécs, Department of Neurology, Pécs, Hungary
2 University of Pécs, Department of Neurosurgery, Pécs, Hungary

0212
SHORTENING OF THE DURATION OF SLEEP SPINDLES; A DIAGNOSTIC BIOMARKER FOR POST-TRAUMATIC EPILEPSY
Pedro Andrade, Asla Pirkkänen
A.I. Virtanen Institute for Molecular Sciences, Epilepsy Research laboratory, Kuopio, Finland

0213
IMPORTANCE OF MUSCULAR STRENGTH FOR CARDIOVASCULAR FUNCTION IN PARKINSON’S DISEASE
Mahmoud Alomari1, Hanan Khalil1, Omar Khabour2, Robert Wood1
1 Jordan University of Science and Technology, Rehabilitation Sciences, Irbid, Jordan
2 University of Pécs, Department of Neurology, Pécs, Hungary
3 New Mexico State University, Kinesiology, Las Cruces, USA

0214
INTERDEPENDENCE OF HEART AND BRAIN BIOELECTRICAL ACTIVITY
Ewa Zalewska
Research Institute of Biocybernetics and Biomedical Engineering, PRL, Department of Neuroengineering, Warsaw, Poland

11:00 – 12:30 PRACTICAL TIPS FOR TRAINEES XV-XVI.
VIEW A ROOM

12:30 – 13:00 CLOSING CEREMONY
BALLROOM
P215

DRIVING HUMAN MOTOR CORTICAL OSCILLATIONS LEADS TO BEHAVIOURALLY RELEVANT CHANGES IN LOCAL GABA(A) INHIBITION: A TACS-TMS STUDY

Magdalena Nowak1, Emily Hinson2, Freek Van Ede1, Alek Pogosyan1, Andrea Guerra2, Andrew Quinn3, Peter Brown1, Charlotte Stagg1

1 University of Oxford, Nuffield Department of Clinical Neurosciences, Oxford, United Kingdom
2 University of Oxford, Oxford Brain Observatory, Oxford, United Kingdom
3 University of Oxford, MRC Brain Network Dynamics Unit, Oxford, United Kingdom

BRAIN STIMULATION I. BALLROOM
Chair: Vildan Yayla

P216

THE Efficacy OF REPEATED TRANSCRANIAL MAGNETIC STIMULATION IN TREATING PATIENTS WITH CHRONIC DAILY HEADACHE

Ann Abdel Kader1, Ebtesam Fahmy2, Ayatullah Ahmed1, Amira Labib1, Leqaa Elmekkawy2

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2 Cairo University, Neurology, Cairo, Egypt

P217

SERUM METABOLIC PROFILE OF CREATINE CORRELATES WITH REPEATED MOTOR EVOKED POTENTIALS: A STUDY ON TMS-INDUCED REPETITION SUPPRESSION

Elisa Kallioniemi1, Olli Kärkkäinen2, Sara Maatta1, Petri Kivimäki1, Outi Kaarre2, Virve Kekkonen2, Ilja Laukkanaen1, Tommi Tolmunen3,4

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2 University of Eastern Finland, School of Pharmacy, Kuopio, Finland
3 Kuopio University, Department of Obstetrics and Gynaecology, Kuopio, Finland
4 Kuopio University Hospital, Department of Obstetric and Gynaecology, Kuopio, Finland

P218

MOTOR CORTICAL ADAPTATION TO EXTERNAL STIMULI IS ALTERED IN UNVERRICHT-LUNDborg TYPE MYOCLONUS EPILEPSY

Pietro Jülkunen1, Olli Löfberg1, Elisa Kallioniemi1, Reetta Kalviainen2, Esa Mervaala1

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2 Kuopio University, Department of Neurology, Kuopio, Finland

P219

CORTICAL EXCITABILITY IN DYSTROPHIA MYOTONICA TYPE 1

Vildan Yayla1, Arisda Bajrami1, Filiz Azman1, Neea Sozer1, Sultan Cagirici1

1 Babeskiy University, Neurology, Antalya, Turkey

P220

EXTRACTION AND DECODING OF VAGUS NERVE MEDIATED BLOOD PRESSURE AND RESPIRATORY INFORMATION FOR BIOELECTRONIC MEDICINE PURPOSES

Cristian Sevcencu1,2

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2 Department of Health Science and Technology, Aalborg, Denmark

P222

DIAGNOSTIC AND THERAPEUTIC POSSIBILITIES OF TRANSCRANIAL MAGNETIC STIMULATION IN PATIENTS AFTER TRAUMATIC BRAIN INJURY

Miroslav Kopachka1, Elena Troshina1, Elena Sharova1, Oleg Zaitsev1, Marina Chelyapina1, Lubov Oknina2

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2 Institute of Higher Nervous Activity and Neurophysiology of RAS (IHNA&NPh RAS), Clinical Neurophysiology, Moscow, Russia

P223

ANALYSIS OF ABDUCTOR POLlicIS BREVIS AND ORBICULARIS ORIS MUSCLES REPRESENTATION OF FULL FACE TRANSPLANTATION PATIENTS USING TMS

Kadir Gök1, Ela Naz Döğer1, Mehmet Berke Göztepe1, Melahat Gök1, Hilmi Uysal4, Ozlenen Ozkani1, Omer Ozkani1, Utku Senol1, Ebru Apaydin Dogan1, Ebru Barcini1, Inci Bilge1, Ayhan Savikilyildizi1, Hamza Feza Carlak1, Ovunc Polat1, Omer Halil Colak1

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3 Akdeniz University, Faculty of Medicine, Department of Neurophysiology, Antalya, Turkey
4 Akdeniz University, Faculty of Medicine, Department of Plastic and Reconstructive Surgery, Antalya, Turkey
5 Akdeniz University, Faculty of Medicine, Department of Radiology, Antalya, Turkey

P224

EFFECT OF THE ANODAL TRANSCRANIAL DIRECT CURRENT STIMULATION OVER THE CEREBELLM ON THE MOTOR CORTEX EXCITABILITY

Bülent Cengiz1, Mehlika Ateç1, Halil Aalaydini2

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2 Gazi University Faculty of Medicine, Department of Neurology, Ankara, Turkey

P225

EFFECT OF 30, 50 AND 100 Hz TETHA BURST STIMULATION ON HEALTHY INDIVIDUALS

Zeynep Özdemir, Gorkem Sirin, Yenim Kayki, Erkan Aca, Ayssun Soysal

Babeskiy Prof. Dr. Mustafa Oman Training and Research Hospital for Psychiatry, Neurological and Neurosurgical Diseases, Department of Neurology, Antalya, Turkey

P226

THE EFFECT OF INTERSTIMULUS INTERVAL BETWEEN THE CONDITIONING AND TEST STIMULUS ON INHIBITION AND FACILITATION: A TRANSCRANIAL MAGNETIC STIMULATION STUDY

Zeynep Özdemir1, Gorkem Sirin, Yenim Kayki, Erkan Aca, Ayssun Soysal

Babeskiy Prof. Dr. Mustafa Oman Training and Research Hospital for Psychiatry, Neurological and Neurosurgical Diseases, Department of Neurology, Antalya, Turkey

P227

CARPAL TUNNEL SYNDROME GRADING USING HIGH-RESOLUTION ULTRASONOGRAPHY

Halil Elbathasy1, Reem Atef1, Basma Bahgat1, Sandra Ahmed1, Aya Sallah1

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PERIPHERAL NERVE ULTRASOUND EXAMINATIONS
Chair: Zsuzsanna Arányi

64 65
**P228**
**REVERSIBLE AXONAL CONDUCTION BLOCKS AND SONOGRAPHIC DISTAL MEDIAN-NERVE ENLARGEMENT IN A YOUNG PATIENT WITH ACUTE MOTOR AXONAL NEUROPATHY**
Marija Rakic¹, Zsuzsanna Arányi², Arastum Karimov¹, Benjamin Bereznai¹, Erika Scheidl¹
¹ Evangelisches Krankenhaus Dandorf-Selber, Department of Neurology, Selbert, Germany
² Semmelweis University, Department of Neurology, Budapest, Hungary

**P229**
**PERIPHERAL NERVE INJURY AFTER NERVE BLOCKADE**
Nils Wolfram, Janus Kaufmann Lindquist, Martin Lauritzen
Rigshospitalet, Gistrup, Clinical Neurophysiology, Copenhagen, Denmark

**P230**
**ULNAR EPINEURAL DISCONTINUITY AND ELECTROPHYSIOLOGICAL CHANGES IN A YOUNG GIRL FOLLOWING ULNAR FRACTURE**
Janus Kaufmann Lindquist, Nils Wolfram
University of Copenhagen, Department of Clinical Neurophysiology, Gistrup, Denmark

**P231**
**HIGH RESOLUTION ULTRASOUND OF PERIPHERAL NERVES IN AMYOTROPHIC LATERAL SCLEROSIS**
Erisela Qerama, Simon Østergaard Wehrs, Sara Silker Bak, Maria Theilin Johansson, Anders Fuglsang-Fredriksen
Aarhus University Hospital, Department of Neurophysiology, Aarhus, Denmark

**CN IN THE DIAGNOSIS AND TREATMENT OF PAEDIATRIC DISORDERS**
Chair: Maria-Dominique Lamblin, András Fogarasi

**P232**
**ATTENTION DEFICIT HYPERACTIVITY DISORDER IN CHILDREN; CLINICAL AND POLYSOMNOGRAPHIC STUDY**
Ahmed Elghoneimy¹, Ann Abdel Kader², Omneya Raafat³, Ayatullah Ahmad¹, Amira Labib², Basma Elsayed²
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² Sennelweis University, Department of Neurology, Budapest, Hungary
³ Bagdasar-Arseni Emergency Hospital, Neurosurgery, Bucharest, Romania

**P233**
**LOCAL AND DISTANT DYSREGULATION OF SYNCHRONIZATION AROUND INTERICTAL SPIKES IN BECTS**
Emilie Bourel-Ponchel, Mahdi Mahmoudzadeh, Fabrice Wallois
University of Picardie Jules Verne, INSERM U1105 GRAMFC, Amiens, France

**P234**
**DYNAMIC TIME WARPING DISTANCE BASED CONNECTIVITY: A NEW METHOD FOR RESTING-STATE FMRI FUNCTIONAL CONNECTIVITY ANALYSIS**
Regina Meszélnyi¹, Ladislav Peska², Petra Hermann¹, Krisztián Buza³, Viktor Gál, Zoltán Vidnyánszky¹
¹ University of Sopron, Brain Imaging Centre, Sopron, Hungary
² Charles University, Faculty of Mathematics and Physics, Prague, Czech Republic
³ University of Sopron, Department of Electrics, Magnetism, Solid State Physics, and Biophysics, Sopron, Hungary

**P235**
**LOCALIZING NON-EPILEPTIC ABNORMAL BRAIN FUNCTION IN CHILDREN USING HIGH DENSITY EEG (HDEEG): ELECTRIC SOURCE IMAGING (ESI) OF FOCAL SLOWING**
Sara Baldini¹, Ana Coito², Christian Korff³, Karl Schaller³, Margitta Seeck¹, Francesca Pittau¹, Paolo Maria Rossini²
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² IRCCS San Raffaele Pisana, Brain Connectivity Laboratory, Rome, Italy
³ National Institute of Clinical Neurosciences, Budapest, Functional Neurosurgery, Budapest, Hungary

**P236**
**ELECTROPHYSIOLOGICAL ASSESSMENT OF GUILLAIN-BARRE SUBTYPES IN A SAMPLE OF IRAQI CHILDREN**
Lamees Al-Najafi¹, Safaa Ali², Najeeb Mohammed¹
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² University of Geneva, Switzerland, Functional Brain Mapping Laboratory, Department of Fundamental Neurosciences, Geneva, Switzerland

**P237**
**AXONAL EXCITABILITY FINDINGS IN TYPE 1 DIABETES MELLITUS – MEDIAN NERVE VERSUS TIBIAL NERVE COMPARISON**
Pinar Gençpinar¹, Gamzze Celmil¹, Abir Alaamel¹, Gizem Kızılay¹, Özgür Duman¹, Senay Haspolat¹
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² Akdeniz University, Pediatric Endocrinology, Antalya, Turkey
³ Akdeniz University, Neurology, Antalya, Turkey

**FUNCTIONAL CONNECTIVITY**
Chair: Fabrizio Vecchio, Mark Molnár

**P238**
**HOMONYMOUS IB INHIBITION DURING REMOTE MUSCLE CONTRACTION**
Miklos Lukacs
Semmelweis Health Center and Teaching Hospital, Neurology, Miklós, Hungary

**P239**
**MUSCLE CONTRACTION DOES NOT ALWAYS TRIGGER THE APPEARANCE OF MOTOR EVOKED POTENTIAL POLYPHASIA IN HEALTHY INDIVIDUALS**
Stefani Stefanis¹, Eleftherios Papathanasious², Ioanna Kousiappa³, Savvas Papacostas²
¹ The Cyprus Institute of Neurology and Genetics, Clinical Neurophysiology, Nicosia, Cyprus
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³ The Cyprus Institute of Neurology and Genetics, Department of Neurosurgery, Nicosia, Cyprus

**P240**
**GENDER DIFFERENCES IN RESTING STATE FUNCTIONAL BRAIN NETWORKS**
Francesca Miragallo¹, Fabrizio Vecchio¹, Paolo Maria Rossini²
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² Catholic University of the Sacred Heart, Department of Neurology, Rome, Italy

**P241**
**INSULA CONNECTIVITY DURING WAKEFULNESS AND SLEEP STUDIED THROUGH SINGLE PULSE ELECTRICAL STIMULATION DURING SEEG RECORDINGS**
Anca Adriana Arbune¹, Ioana Mindruta², Mihai Malia³, Irina Popa³, Cristian Donos², Sabina Ene³, Jean Ciurea¹, Andrei Barborica²
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³ Bagdasar-Arseni Emergency Hospital, Neurosurgery, Bucharest, Romania

**P242**
**HEALTHY INDIVIDUALS**

**P243**
**FUNCTIONAL CONNECTIVITY ANALYSIS OF CORTICO-CORTICAL EVOKED POTENTIALS**
Bálint Fölö¹, Emilia Tóth², Virág Bokodi³, Zsolt Kecserz⁴, László Entz⁴, István Ulbert⁵, Dániel Fabó⁵
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³ National Institute of Clinical Neurosciences, Budapest, Functional Neurosurgery, Budapest, Hungary
⁴ National Institute of Clinical Neurosciences, Budapest, Functional Neurosurgery, Budapest, Hungary
⁵ National Institute of Clinical Neurosciences, Budapest, Functional Neurosurgery, Budapest, Hungary
P244
NORMAL CORTICAL MODULATION OF SUBCORTICAL STRUCTURES IS ALTERED IN CERVICAL DYSTONIA
Meral E. Kıziltan, Oya Ozturk, Aysegul Gunduz
Istanbul University, Cerrahpasa School of Medicine, Department of Neurology, Istanbul, Turkey

P245
FREQUENCY DEPENDENT CURRENT PERCEPTION THRESHOLD IN JAPANESE
Setsu Nakatani-Enomoto, Madoka Yamazaki, Yoshitsugu Kamimura, Hiroyuki Enomoto, Kanako Wake, Soichi Watanabe, Yoshikazu Ugawa
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1 Osaka University, Department of Health Science, Osaka, Japan
2 University of Tokyo, Department of Information Science, Tokyo, Japan
National Institute of Information and Communications Technology, Electromagnetic Compatibility Laboratory, Applied Electromagnetic Research Institute, Tokyo, Japan

P246
ABDOMINAL ACUPUNCTURE REDUCES PAIN AT THE SPINAL CORD LEVEL
Massimiliano Valeriani, Elisa Testani, Stefano Liguori, Daniele Coraci, Costanza Pazzaglia
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2 University of Siena, Neurology, Siena, Italy
3 Paracelsus Institute, Paracelsus Institute, Rome, Italy
4 Sapienza University of Rome, C) Board of Physical Medicine and Rehabilitation, Rome, Italy
5 Don Carlo Gnocchi Onlus Foundation, Neurology, Milan, Italy
6 Università Cattolica del Sacro Cuore, Department of Neuroscience, Rome, Italy

P247
PAINFUL LASER EVOKED POTENTIAL INHIBITION DURING HIGH-FREQUENCY NON-NOXIOUS SOMATOSENSORY STIMULATION
Massimiliano Valeriani, Vincenzo Rizzo, Costanza Pazzaglia, Angelo Quartarone, Catello Vollono
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2 University of Siena, Neurology, Siena, Italy
3 Paracelsus Institute, Paracelsus Institute, Rome, Italy
4 Sapienza University of Rome, C) Board of Physical Medicine and Rehabilitation, Rome, Italy
5 Don Carlo Gnocchi Onlus Foundation, Neurology, Milan, Italy
6 Università Cattolica del Sacro Cuore, Department of Neuroscience, Rome, Italy

P248
LASER EVOKED CUTANEOUS SILENT PERIODS IN DIAGNOSIS OF CHEMOTHERAPY INDUCED SMALL FIBER NEUROPATHY
Baris Işak, Hatice Tankisi, Lise Ventzel, Kirsten Pugdahl, Nanna Briex-Finnerup, Anders Fuglsang-Frederiksen
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2 Aarhus University, Danish Pain Research Center, Aarhus, Denmark
3 University College London, Institute of Neurology, London, United Kingdom

P249
LEPS ABNORMALITIES IN THE EVALUATION OF DYSPIGMENTED AND HYPOESTHETIC PATCHES IN TUBERCULOID LEPROSY
Sara Yague
Hospital Universitario de Bellvitge, Barcelona (Spain), Clinical Neurophysiology, Barcelona, Spain

P250
SIMULTANEOUS RECORDING OF CERVICAL AND OCULAR VESTIBULAR-EVOKED MYOGENIC POTENTIALS
Sun-Young Oh, Byoung-Min Jeong
Chonbuk National University, T15 Department of Neurology, Jeonju, Korea

P251
CONTRIBUTION OF ELECTROPHYSIOLOGY IN MUSCULAR CHANNELOPATHIES DIAGNOSIS
Ayoub Boudiba, Belhabib Aboubaker Zeid
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2 Neuromuscular Laboratory, Bni Aknoun Hospital, Clinical Neurophysiology, Algiers, Algeria

P252
PREPULSE INHIBITION OF BLINK REFLEX AFTER DIFFERENT TYPES OF SOMATOSENSORY STIMULI
Meral E. Kıziltan, Aysegul Gunduz
Istanbul University, Cerrahpasa School of Medicine, Department of Neurology, Istanbul, Turkey

P253
KNOWLEDGE OF ELECTROMYOGRAPHY (EMG) AMONG SUB-SAHARAN AFRICAN PATIENTS – A PILOT SURVEY
Philip Adebayo, Fumimilola Taiwo, Mayowa Owoabi
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2 Benin City University, School of Medicine, Benin, Neurology, Benin, Nigeria
3 University of Ibadan, Neurology, Ibadan, Nigeria

P254
CARPAL TUNNEL SYNDROME AND OBJECT DROPPING IN YOUNG DENTISTS
Zeliha Matur, Tunahan Zengin, Naci Emre Oge
1 Istanbul Bilim University, Faculty of Medicine, Department of Neurology, Istanbul, Turkey
2 Istanbul University, Istanbul Faculty of Medicine, Istanbul, Turkey
3 Istanbul University, Istanbul Faculty of Medicine, Department of Neurology, Istanbul, Turkey

P255
INCREASED BARRETT-BARRETT CONDUCTANCE IN MOTOR AXONS OF PATIENTS WITH ANTI-GAD ANTIBODY
Tomoaki Nakazato, Kazuaki Kanai, Yasushi Shimo, Hugh Bostock, Nobutaka Hattori
1 Juntendo University School of Medicine, Department of Neurology, Tokyo, Japan
2 University College London, Institute of Neurology, London, United Kingdom

P256
KNOWLEDGE OF ELECTROMYOGRAPHY (EMG) AMONG SUB-SAHARAN AFRICAN PATIENTS – A PILOT SURVEY
Philip Adebayo, Fumimilola Taiwo, Mayowa Owoabi
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2 Benin City University, School of Medicine, Benin, Neurology, Benin, Nigeria
3 University of Ibadan, Neurology, Ibadan, Nigeria

P257
SMELL TRIGGERED SEIZURE IN A PATIENT WITH TEMPORAL LOBE EPILEPSY
Emes Ur Dzepilak, Hakim Yener, Mine Sezgin, Nevinn Gürkem Sirin, Betül Baykan
Istanbul University, Istanbul Faculty of Medicine, Department of Clinical Neurophysiology and Neurology, Istanbul, Turkey

P258
DETECTION OF EARLY MOTOR INVOLVEMENT IN DIABETIC POLYNEUROPATHY USING A NOVEL MUNE METHOD–MSCANFIT
Alexander Kristensen
Aarhus University, Danish Pain Research Center, Aarhus, Denmark

P259
OBJECT DROPPING IN CARPAL TUNNEL SYNDROME: CLINICAL AND ELECTROPHYSIOLOGICAL FEATURES
Zeliha Matur, Emre Taşkıran, Ali Emre Öge
1 Istanbul Bilim University, Faculty of Medicine, Department of Neurology, Istanbul, Turkey
2 Istanbul University, Istanbul Faculty of Medicine, Department of Neurology, Istanbul, Turkey
P260
SPINDLE-SHAPED HIGH FREQUENCY (± 100 Hz) OSCILLATORY ACTIVITY IN SCALP EEG OF CHILDREN
Anne Mooij1, Renee Raijimann2, Floor Jansen3, Kees Braun4, Maaike Zijlmans1
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2 University Medical Centre Utrecht, Faculty of Medicine, Utrecht, The Netherlands
3 University Medical Centre Utrecht, Department of Paediatric Neurology, Utrecht, The Netherlands
4 İstanbul University Medical Faculty, Neurology Department, Istanbul, Turkey

P261
CORTICAL EXCITABILITY CHANGES IN THE EARLIEST STAGES OF AMYTOTROPIC LATERAL SCLEROSIS (ALS)
Sophia Volikik, Sergey Nikitinin, Eugenia Naumovawa
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P262
CONTRACEPTIVE IMPLANT INDUCED ULNAR NEUROPATHY
J. Kilby, W. Merton, A. Pandya,
School of Pharmacy and Biological Sciences, University of Portsmouth, Queen Alexandra Hospital, Portsmouth, United Kingdom

P263
EFFECT OF STRUCTURAL COMPLEXITIES IN HEAD MODELLING ON NEONATAL EEG SOURCE ANALYSIS
Hamed Azizollahi, Ardalan Aarabi, Fabrice Wallios
INSERM U1105, GRAMFC, Université de Picardie Jules Verne, CHU SUD, Amiens, France

P264
SJÖGREN’S SYNDROME PRESENTING WITH MYELITIS AND WITHOUT SICCA SYMPTOMS
Hacer Erdem Tilki, Şeyda Bayil
Ondokuz Mayıs University, Department of Neurology, Samsun, Turkey

P265
CORRELATION OF THYROID FUNCTION DISTURBANCES AND AMYTOTROPIC LATERAL SCLEROSIS SYNDROME
Tinatin Kherkheulidze1, Maia Beridze2, Nana Kikvidze1a, Omar Samushia1, Türa Marjigaladze1, Nino Khizanishvili2, Eka Devidze1
1 Tbilisi State Medical University, First University Clinic, Neurology Department, Tbilisi, Georgia
2 Tbilisi State Medical University First University Clinic, Neurology Department, Tbilisi, Georgia

P266
PERIODIC LATERALIZED EPILEPTIFORM DISCHARGES RECORDED IN A CENTRO-PONTIC MYELINOLYSIS, A CASE REPORT
Fatima Zohra Benchouhra
Medicine Faculty of Mostaganem, Physiology Laboratory, Mostaganem, Algeria

P267
SWALLOWING AND BRAINSTEM REFLEXES BEFORE AND AFTER MANDIBULAR SAGITTAL SPLIT OSTEOTOMY
Ayşenur Uzun1, Zeliha Mutlu2, Leyla Baysal Kırac3, Ali Emre Oge4
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2 İstanbul Bilim University, Faculty of Medicine, Department of Neurology, Istanbul, Turkey
3 Ömerdeniz Training and Research Hospital, Department of Neurology, Istanbul, Turkey
4 İstanbul University, İstanbul, Turkey

P268
THE EFFECTS OF HIGH-DOSE STEROIDS ON CORTICAL EXCITABILITY IN ACUTE MULTIPLE SCLEROSIS RELAPSES
Moussa A. Chalah1, Alain Créange2, Jean-Pascal Lefaucheur3, Samar S. Ayache1
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2 Hôpital Henri Mondor, Assistance Publique – Hôpitaux de Paris, EA 3471, Faculty of Medicine, Paris Est University – Neurology department, Henri Mondor Hospital, Creteil, France

P269
SMALL FIBER ASSESSMENT BY SUDOSCAN IN TRANSLHYRETIN FAMILIAL AMYLOID POLYNEUROPATHY TREATED PATIENTS – A LONGITUDINAL STUDY
José Castro1, João Costa Costa1, Isabel Castro1, Daisy Abreu1, Nilza Gonçalves2, Isabel Concejíca1
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2 Faculty of Medicine – University of Lisbon, Laboratory of Clinical Pharmacology and Therapeutics, Lisbon, Portugal

P270
AN UNUSUAL DEMYELINATING NEUROPATHY IN A PATIENT WITH DEFECTS IN THE DCTN1 GENE
Roberto Sans-Boza, Eva Villamil
Plymouth Hospitals NHS Trust, Department of Clinical Neurophysiology, Plymouth, United Kingdom

P271
THE LRRK2-R1441C MUTATION DISRUPTS LONG-TERM POTENTIATION-LIKE PLASTICITY IN PARKINSON’S DISEASE PATIENTS
Raffaele Dubbioso, Anna De Rosa, Marcello Esposito, Silvio Peluso, Rosa Iodice, Giuseppe De Michele, Lucio Santoro, Fiore Manganello
Federico II University of Naples, Department of Neuroscience, Reproductive Sciences and Odontostomatological, Naples, Italy

P272
CARDIOVASCULAR FUNCTION AND BDNF IN PARKINSON’S DISEASE
Mahmoud Alomari
Jordan University of Science and Technology, Rehabilitation Sciences, Irbid, Jordan

P273
CONTRIBUTION TO NEUROLOGY FROM MILITARY MEDICAL SERVICE DURING THE RUSSO-TURKISH WAR (1877-1878) AND RUSSO-JAPANESE WAR (1904-1905) BY V.M.BEKHTEREV, HIS COLLEAGUES, AND STUDENTS
Olga Kislova
Institute of Higher Nervous Activity and Neurophysiology of RAS (IHNA&NPh RAS), Moscow, Russia

P274
PLEASANT AND UNPLEASANT SOUND PERCEPTION IN PATIENTS WITH SEVERE AND MODERATE TBI USING CORRELATION DIMENSION D2 ANALYSIS
Kseniia Gladun
Institute of Higher Nervous Activity and Neurophysiology of RAS (IHNA&NPh RAS), Moscow, Russia

P275
THE EFFECTS OF SEX HORMONE FLUCTUATIONS IN MENSTRUAL CYCLE ON THE EEG DELTA RESPONSE
Gulsen Yilmaz1, Gulsum Akdeniz1, Emine Feyza Yurt1, Gamze Doğan2
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2 Hacettepe University, School of Medicine, Ankara, Turkey
P278
THE EEG ALPHA RESPONSE IS AFFECTED BY CHANGES IN SEX HORMONE LEVELS IN TWO PHASES OF MENSTRUAL CYCLE
Gulsan Akdeniz1, Emine Feyza Yurt1, Gulsen Yilmaz2, Gamze Dogan2
1 Ankara Yildirim Beyazit University, School of Medicine, Ankara, Turkey
2 Hacettepe University, School of Medicine, Ankara, Turkey

P279
DISTRIBUTION OF SINGLE UNIT ACTIVITY PATTERNS IN SUBTHALAMIC NUCLEUS OF PARKINSONIAN PATIENTS
Elena Belova1, Artem Nezvinskiy1, Ulia Semenova1, Svetlana Usova1, Valentyn Popov1, Anna Gamaleya2, Alexey Tomsky1, Alexey Sedov1
1 Semenov Institute of Chemical Physics, Laboratory of Human Cell Neurophysiology, Moscow, Russia
2 Burdenko Neurosurgery Institute, Department of functional neurosurgery, Moscow, Russia

P280
DYNAMICAL CHANGES ASSOCIATED WITH INTERICTAL EPILEPTIC SPIKES: AN IN VIVO STUDY USING MULTIMODAL RECORDING IN RATS
Levmaya Arafi-Yemni, Cristiian Arnal-Real, Mahdi Mahmoudezadeh, Fabrice Wallois
INSERM U1105, GRAMFC, Universite de Franche-Comte Besancon, CHU Sud, Medicine, Besancon, France

P281
THE NEUROPHYSIOLOGICAL MECHANISMS LINKING STUTTERING AND NORMAL SPEECH
Alexander Whiller1, Sina Hommel1, Nicole Neef2, Alexander Wolff von Gudenberg1, Walter Paulus1, Martin Sommer1
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2 Max Planck Institute for Human Cognitive and Brain Sciences, Department of Neurophysiology, Leipzig, Germany
3 Institut der Kasseler Stuttertherapie, Speech Therapy, Kassel, Germany

P282
EFFECTS OF ODOURS ON ELECTROPHYSIOLOGICAL RESPONSES TO LASER PAIN STIMULI
Nicholas Fallon1, Stephanie Cook1, Vicente De Soto1, Katerina Kokmotou1, Andrej Stancak1
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2 University College London, Institute of Cognitive Neuroscience and Psychology, London, United Kingdom

P283
CN METHODS IN PREDICTING THE OUTCOME AND MONITORING THE COURSE OF A DISEASE
Chair: Antonio Martins da Silva, Nathan Gadoth
ERZSÉBET I. ROOM

P284
EARLY DIFFERENTIAL DIAGNOSTIC BETWEEN AXONAL AND DEMYELINATING FORM OF GUILLAIN-BARRÉ SYNDROME IN CHILDREN
Vladaslav Voitenkov1, Andrey Klimkin1, Natalia Skripchenko2
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2 Scientific research institute of children’s Infections, Saint-Petersburg, Russia

P285
POSTOPERATIVE CLINICAL MOTOR FINDINGS CORRELATIONS WITH IONM MEP RESULTS DURING INTRAEDULLARY SPINAL CORD TUMOR REMOVAL. PRESENTATION OF 2 CASES
Vizimary Montes-Peña1, Vincenzo Tramontano1, Francesco Sala2, Christian Soda2
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2 Azienda Ospedaliera Universitaria Integrata Verona, Department of Neurosurgery, Verona, Italy

P286
VISUAL AND BRAINSTEM AUDITORY EVOKED POTENTIALS ABNORMALITIES IN THE PATIENTS WITH SYSTEMIC LUPUS ERYTHEMATOSUS
Anna Pokrzysko-Dragan1, Magdalena Szmyrka1, Elzbieta Kusinska1, Edyta Dzidzokwia1, Marta Waliszewska-Prošol1, Piotr Wiland1, Ryszard Podemski1
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2 Wroclaw Medical University, Department of Rheumatology and Internal Diseases, Wroclaw, Poland

P287
LONGITUDINAL STUDY OF CORTICAL EXCITABILITY IN TREATED VERSUS UNTREATED PATIENTS WITH PROGRESSIVE MULTIPLE SCLEROSIS
Samar S. Ayache, Alain Créange, Jean-Pascal Lefaucheur, Moussa A. Chalah
Hôpital Necker-Enfants, Assistance Publique - Hôpitaux de Paris, EA 4079, Faculty of Medicine, Paris Est University-Physiology department, Necker-Enfants Hospital, Cruval, France

P288
CHARACTERIZATION OF EVOLVING EEG PATTERNS IN PATIENTS WITH REMARKABLE LATE RECOVERY FROM COMA AFTER CARDIAC ARREST
Péter Forgác, Nicholas Schiff
Weill Cornell Medical College of Cornell University, Department of Neurology, New York, USA

P291
NON-INVASIVE DETECTION OF FAST Ripples IN LOW-NOISE EEG RECORDINGS
Ece Boran1, Georgia Ramantani1, Pamela Marzendorfer1, Iabes Albert1, Gabriel Curio1, Peter Hilfiker2, Thomas Grunwald1, Johannes Samthin1, Tommaso Fedele1
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2 Campus Benjamin Franklin, Charité, Neurology, Berlin, Germany

P292
BIOPHYSICAL INSIGHTS OF SENSORY AXONS IN MULTIFOCAL MOTOR NEUROPATHY
Boudewijn Sleetjes1, Maria Kovalchuk1, Leonard Van Schelven2, Leonard Van den Berg1, Hessel Franssen1
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2 Swiss Epilepsy Centre, Zurich, Switzerland
3 Campus Benjamin Franklin, Charité, Neurology, Berlin, Germany

P293
NEUROPHYSIOLOGY IN THE ASSESSMENT OF THE EFFICACY OF THE REHABILITATION OF SENSOMOTOR DISTURBANCES DUE TO SPINAL CORD LESIONS
Vladislav Voitenkov1, Evgenia Ekuhescova1, Natalia Sripchenko2
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2 Scientific research institute of children’s Infections, Saint-Petersburg, Russia
3 M. Sechenov First Moscow State Medical University, Moscow, Russia

P294
USING OF BEREITSCHAFTSPOTENTIALS AND POLYMIOGRAPHY RECORDINGS AS A FUNDAMENTAL DIAGNOSTIC KEY OF AN UNCOMMON TYPE OF MOVEMENT DISORDER. CASE REPORT OF A SPINAL-GENERATED MOVEMENT DISORDER AT SLEEP ONSET CAUSING SEVERE INSOMNIA
Vizimary Montes-Peña1, Jose Luis Boada-Cuellar1, Sara Sánchez-Valiente1, Diego Rodriguez-Mena1
1 Clinical University Hospital Laszlo B Oasis, Department of Clinical Neurophysiology, Zaragoza, Spain
2 Clinical University Hospital Laszlo B Oasis, Department of Neurology, Zaragoza, Spain
P295  EFFECTS OF FUNCTIONAL ELECTRIC STIMULATION AND TASK SPECIFIC TRAINING ON GAIT RECOVERY IN PATIENTS WITH STROKE: RANDOMIZED CONTROLLED TRIAL
Salma Marzouk1, Amr Hassan2, Mohamed Marzouk3, Moshirah Darweesh4, Rasha Nazeer4
1 Cairo University, Department of Neurophysiology, Cairo, Egypt
2 Cairo University, Department of Neurology, Cairo, Egypt
3 Cairo University, Department of Physiology, Cairo, Egypt
4 Cairo University, Department of Physiotherapy, Cairo, Egypt

P296  STUDY OF SINGLE FIBER ELECTROMYOGRAPHY USING CONCENTRIC NEEDLE IN HEALTHY SUBJECTS
Kazimierz Tomczykiewicz, Marta Durka-Kęsy
Military Institute of Medicine, Department of Neurology, Warsaw, Poland

P297  ATYPICAL CARPAL TUNNEL SYNDROME CAUSED (MIMICKED) BY BIFID MEDIAN NERVE
Zoltan Horváth1, Elza Szabó2, Gabriella Kovács2, Edina T. Varga1, László Vecsei1,3
1 Department of Neurology, University of Szeged, Hungary
2 Affidea Diagnosztika-Szeged, Hungary
3 MTA-SZTE Neuroscience Research Group, Szeged, Hungary

P298  CAN MUSIC ENHANCE MOVEMENT INTENTION?
Yoshie Nakajima1, Tatsuya Mima2, Yoshiyuki Tadokoro1
1 Tokyo Medical University, Department of Nursing, Tokyo, Japan
2 Ritsumeikan University, The Graduate School of Core Ethics and Frontier Sciences, Kyoto, Japan
P306
MOTOR CORTEX TMS REDUCE PAIN AND IMPROVE AFFECTIVE AND COGNITIVE IMPAIRMENT IN PATIENTS WITH FIBROMYALGIA: PRELIMINARY RESULTS OF A RANDOMIZED SHAM-CONTROLLED TRIAL
Filippo Brighina, Massimiliano Curatolo
UO Neurologia e Neurofisiopatologia, Clinical Neurophysiology and Department of Neurology, Policlinico, Italy

P307
TMS-BASED CORTICAL MAPPING IN DOUBLE-ARM TRANSPLANTATION
Kadir Gök, Ela Naz Döğer, Mehmet Berke Göztepe, Hilmi Uysal, Ozlennen Ozkam, Omer Oskan, Utku Şenol, Ebru Apaydin Doğan, Ebru Barçın, İnci Bilge, Ayhan Şavşülyıldızlı, Hamza Feza Carläk, Övünç Polat, Omer Halil Çolak
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4 Akdeniz University, Faculty of Medicine, Department of Plastic and Reconstructive Surgery, Antalya, Turkey
5 Akdeniz University, Faculty of Medicine, Department of Radiology, Antalya, Turkey

P308
CROSS-FREQUENCY COUPLING IN THE HUMAN EPILEPTIC HIPPOCAMPUS
Virág Bokodi, Emília Tóth, Zoltán Somogyvári, Zsófia Maglóczky, László Enzt, Loránd Érös, István Ulbert, Dániel Fabó
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4 National Institute of Clinical Neuroscience, Budapest, Neurorusurgery, Budapest, Hungary
5 Research Center for Natural Sciences, Hungarian Academy of Sciences, Institute of Cognitive Neuroscience and Psychology, Budapest, Hungary
6 National Institute of Clinical Neuroscience, Budapest, Neurology Department, Budapest, Hungary

P309
TINNITUS RTMS TREATMENT GUIDED BY LOCAL SYNCHRONICITY OF THE RESTING STATE FMRI – A CASE REPORT
Tuomo Starck, Tuula Keinänen, Vesa Kivistö, Mika Kallio, Usko Hauskonen
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2 Oulu University Hospital, Diagnostic imaging, Oulu, Finland

P310
THERAPEUTIC USE OF TRANSCRANIAL MAGNETIC STIMULATION IN PAIN PATIENTS
Leo Alho, Jaakko Matomäki, Eliisa Löyttyniemi, Tero Taiminen, Satu Jaaskelainen
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P311
THE EFFECTIVENESS OF THE COMPLEX REPETITIVE PERIPHERAL MAGNETIC STIMULATION (RPMS) IN TREATMENT OF LUMBOSACRAL RADICULOPATHY
Vera Blokhina, Miroslav Kopachka, Elena Troshina, Elina Melikyan, Sergey Nikolaev
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P312
FMRI ANALYSIS OF THE HUMAN BRAIN’S NEUROPLASTICITY AS A BASIS OF MOVEMENT DISORDERS COMPENSATION AFTER TRAUMATIC BRAIN INJURY
Elena Sharova, Galina Boldyreva, Marina Chelyapina, Alexander Smirnov, Anton Azarov, Tatiana Mukhina, Alexsey Gavron, Michael Kulikov, Evgenia Alexandrova, Igor Pronin
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8 Helsinki University Hospital, Department of Nuclear Medicine, Helsinki, Finland
9 Helsinki University Hospital, Department of Nuclear Medicine, Helsinki, Finland
10 Helsinki University Hospital, Department of Nuclear Medicine, Helsinki, Finland
P319
DIFFERENCES IN ADRENERGIC COMPONENTS OF BAROREFLEX RESPONSE TO VALSALVA MANEUVER IN PATIENTS WITH POSTURAL TACHYCARDIA SYNDROME AND HEALTHY SUBJECTS
Dunja Pucic1, Bojana Nevajdic1, Tomislav Mutak1, Luka Crnosija1, Magdalena Krbot Skoric1, Tereza Gabelic2, Ivan Adamec3, Mario Habek1
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3 University of Zagreb, School of Medicine, Department of Neurology, Zagreb, Croatia

P329
DIFFERENCES IN ADRENERGIC COMPONENTS OF BAROREFLEX RESPONSE TO VALSALVA MANEUVER IN PATIENTS WITH MULTIPLE SCLEROSIS AND HEALTHY SUBJECTS
Tomislav Mutak1, Dunja Pucic1, Bojana Nevajdic1, Magdalena Krbot Skoric1, Luka Crnosija1, Tereza Gabelic2, Gorana Vukorepa1, Ivan Adamec2, Mario Habek1
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P332
FULLY AUTOMATED R-PEAK DETECTION ALGORITHM FOR PATIENTS WITH EPILEPSY: FIRST STEP TOWARDS PORTABLE SEIZURE DETECTOR
Jesper Jeppesen1, Sándor Beniczky1, Peter Johansen2, Per Sidenius3, Anders Fogliang-Frederiksen1
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P323
VALUE OF PULSE-TRAIN STIMULATION OF THE PEDICILE TRACKS FOR THE DETECTION OF THORACIC SCREWS MALPOSITION IN SCLEROSIS SURGERY
Laura López Viñas1, Lidia Cabañes Martínez2, M. del Mar Moreno1, Carlos Valera1, Gema De Blas1, Miguel Antón1, Jesús Burgos1, Ignacio Regidor2, Mamede De Carvalho
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2 Hospital Universitario Ramon y Cajal, Orthopaedics, Madrid, Spain

P324
IMPROVEMENT IN THE REPRODUCIBILITY OF VISUAL EVD UPOTENTIALS IN INTRAOPERATIVE NEUROPHYSIOLOGICAL MONITORING
Laura López Viñas1, María del Mar Moreno Galera1, Lidia Cabañes Martínez2, Victor Rodríguez Berrocal3, Luis Ley Urruzoa1, Guillermo Martin Palomeque1, Ignacio Regidor2
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2 Hospital Universitario Ramon y Cajal, Orthopaedics, Madrid, Spain

P325
FEATURES OF INTRAOPERATIVE NEUROPHYSIOLOGICAL MONITORING USED IN CAROTID ENDARTERECTOMY
Mariia Podgurskaia1, Daria Ivanova1, Sergey Nikitin2, Astanda Mushba2, Oleg Vinogradov3, Adriano Peris3, Giuseppe Olivo4, Serafina Valente5, Aldo Amantini2
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P327
NONCONVULSIVE STATUS EPILEPTICUS CAUSED BY HERPES ENCEPHALITIS: NEUROPHYSIOLOGICAL FINDINGS AND CONTRIBUTION TO INTENSIVE CARE UNIT MANAGEMENT
Manuel Lujan-Bonete, Pau Giner-Bayarri, Mercedes Gonzalez, Blanca Hoyo-Rodrigo
Hospital Universitario Dr. Pau, Department of Clinical Neurophysiology, Valencia, Spain

P328
NOT ONLY THE ABSENCE BUT ALSO AMPLITUDE REDUCTION OF CORTICAL SEPS PREDICT OMINOUS OUTCOME IN COMATOSE PATIENTS AFTER CARDIAC ARREST
Riccardo Carrai1, Antonello Grippi1, Maddalena Spalletti1, Maenia Krbot Skoric2, Cesaria Cossu1, Giovanni Lanzo1, Adriano Peris1, Giuseppe Olivo1, Seraphina Valente1, Aldo Amantini2
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**P329**
REPEATABILITY OF SSEPS DURING AND AFTER TARGETED TEMPERATURE MANAGEMENT
Carin Ertman-Meijers1, Marleen Tjeenkema-Cloostermans1, Michel Van Putten1
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**P330**
EVENT-RELATED POTENTIAL COMBINED WITH MIDDLE LATENCY SOMATOSENSORY EVOKED POTENTIAL IMPROVE THE PREDICTION OF AWAKENING FROM COMA
Yifei Liu, Yingying Su, Yan Zhang, Miao Wang, Weibi Chen, Gang Liu, Mengdi Jiang
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**P331**
CLINICAL AND ELECTROENCEPHALOGRAPHY ROLE IN PREDICTION OF OUTCOME IN SURVIVORS AFTER CARDIOPULMONARY RESUSCITATION
Hanan Hosny1, Mona Nada1, Ehab Shaker1, Amarni Nawito1, Mohamed Seleem1, Rehab Hassan1, Hesham Nafa1
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**P332**
THE DEVELOPMENT OF NCUS IN CHINA: A 2ND NATIONWIDE SURVEY
Yingying Su1, Suyue Pan2, Wen Jiang3, Furong Wang4, Le Zhang5, Zhenhai Wang6, Bin Peng7, Xusheng Huang8
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6 general Hospital of Ningxia Medical University, Neurology, Ningxia, China
7 Xijing Hospital, Fourth Military Medical University, Neurology, Xian, China
8 Chinese People’s Liberation Army General Hospital, Neurology, Beijing, China

**P365**
AUTOMATED CHIN EMG ANALYSIS FOR QUANTIFICATION OF REM SLEEP WITHOUT ATONIA
Jesper Jeppesen1, Marit Otto1, Yoon Frederiksen1, Allan Hansen1, Tatyana Fedorova2, Karoline Knudsen1, Per Borphammer1, Michael Sommerauer1
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**P366**
MULTIMODAL EEG/ECOG AND FAST OPTICAL SIGNAL MEASUREMENTS IN INTERICTAL EPILEPTIC SPIKES
Mahdi Mahmoudzadeh, Mana Manoochehri, Fabrice Wallois
University of Picardie Jules Verne, Medicine, Amiens, France

**P367**
IDENTIFICATION OF NEURAL RESPONSES TO HUMAN FACES USING WIRELESS MULTICHANNEL EEG RECORDINGS.
Vincete Soto1, John Tyson-Carr1, Katerina Kokmotou1, Hannah Roberts1, Stephanie Cook1, Nicholas Fallon1, Timo Giesbrecht1, Andrej Stanack1
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**P368**
EPILEPTIFORM AND SLEEP SPINDLE ACTIVITY IN ANTERIOR NUCLEUS OF THE THALAMUS IN TEMPORAL LOBE EPILEPSY PATIENTS
Zsofia Jordan1, Marta Virag1, Boglarka Hajnal2, Robert Bodzis2, Peter Ujma3, Anna Kelemen1, Laszlo Halasz1, Laszlo Entz1, Daniel Fabo1, Lorand Eross1
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**P369**
OSCILLATORY ACTIVITY IN THE HUMAN INTERNAL GLOBUS PALLIDUS IN DIFFERENT PATHOLOGIES
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**P370**
THE THALAMO-CORTICAL GENERATORS OF SLEEP SPINDLES AS REVEALED BY LAMINAR ANALYSIS OF NEOCORTEX
Boglarka Hajnal1, Peter Ujma1, Robert Bodzis1, Emilia Toth1, Lorand Eross1, Istvan Ulbert5, Sydney Cash6, Daniel Fabo7
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**P371**
SIMULATION AND ESTIMATION OF HAWKES PROCESSES FOR MODELING EEG DATA TO FORECAST EPILEPTIC SEIZURES
György Perecz1, Lorand Eross2, Dániel Fabo1, László Gerencsér3, Zsuzsanna Vágó1
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3 Semmelweis University, Institute of Clinical Neurosciences, Budapest, Hungary

**P372**
INFERENCE OF INTRA AND INTER HIPPOCAMPAL DIRECTED CAUSAL RELATIONSHIPS BASED ON FORAMEN OVALE RECORDINGS
Zoltan Somogyvari1, Boglarka Hajnal1, Péter Halász2, Lorand Eross2, Dániel Fabo1
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4 National Institute of Clinical Neurosciences, Department of Functional Neurosurgery, Budapest, Hungary

**CUTTING EDGE TECHNIQUES IN CN**
Chair: Ivan Rektor, Alfons Schmitzler

**BALLROOM**
P334
VALUE OF ELECTROPHYSIOLOGICAL STUDIES IN DETECTING LUMBO-SACRAL RADICULOPATHY IN PATIENTS WITH QUESTIONABLE MRI FINDINGS
Heba Raafat1, Wael El Mahdy2, Waleed Raafat2, Omar El Falaky2
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2 Cairo University, Department of Neurosurgery, Cairo, Egypt

P335
COMPARISON OF MEDIAN NERVE DISTAL MOTOR RESPONSES IN PATIENTS WITH CHRONIC INFLAMMATORY Demyelinating Polyneuropathy and Carpal Tunnel Syndrome
Zehra Aktan, Eren Gozke, Nimet Dortcan, Pelin Dogan Ak, Isil Kalyoncu Aslan
FSM Teaching and Research Hospital, University of Health Sciences, Department of Neurology, Istanbul, Turkey

P336
THE CARPAL TUNNEL SYNDROME AND THE DOUBLE CRUSH SYNDROME HYPOTHESIS: REVISITED
Heba Raafat, Mye Basheer, Amira El Gohary
Cairo University, Department of Clinical Neurophysiology, Cairo, Egypt

P337
THE FAILURE OF A RHYTHM... NOT ALWAYS CORTICAL...
Pedro Guimarães, Joel Guedes, Paulo Coelho, Vera Espírito Santo, João Lopes, João Ramalheira, António Martins da Silva
Centro Hospitalar do Porto, Hospital Geral de Santa Anaína, Department of Neurophysiology, Oporto, Portugal

P338
CONCENTRIC NEEDLE SINGLE FIBER ELECTROMYOGRAPHY IN PATIENTS WITH MYASTHENIA GRAVIS
Kazimierz Tomczykiewicz, Jacek Staszewski
Military Institute of Medicine, Department of Neurology, Warsaw, Poland

P339
LONG-TERM ELECTROCORTICOGRAPHIC MONITORING AND PATHOLOGICAL HIGH-FREQUENCY OSCILLATIONS IN TUMOR-RELATED EPILEPSY
Nastasia Arkhipova, Mikhail Alexandrov, Alexander Chukhlovin, Marina Pavlovskaya, Irina Kostenko
I.M. Sechenov Institute of Evolutionary Physiology and Biochemistry of Russian Academy of Sciences, Department of Endocrinology, Saint-Petersburg, Russia

P340
THE MUNE METHOD AS A COMPLEMENTARY TEST TO ROUTINE EMG IN AMYOTROPHIC LATERAL SCLEROSIS
Gawel Malgorzata1, Ewa Zaleswka1, Marta Lipowska1, Elżbieta Szmidt-Salkowska1, Anna Kaminska1, Anna Kostera-Pruszczynsky2
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CN IN THE DIAGNOSIS AND TREATMENT OF DISEASES 2.
Chair: Benedikte Wanscher

P341
PAINFUL LEGS AND MOVING TOES SYNDROME ASSOCIATED WITH PERIPHERAL NERVE HYPEREXCITABILITY AND CENTRAL NERVOUS SYSTEM INVOLVEMENT
Sara Cors-Serra, Ángeles Lloret-Alcañiz, Paula Cases-Bergón, Cristina Ipiéns-Escuer, Lara Mauri-Fábrega, Milka B. Alko-Gesler
Hospital Clinic Universitari de València, Neurofisiología Clínica, Valencia, Spain

P342
DIAGNOSTIC UTILITY OF MUNIX METHOD IN ESTIMATION OF MOTOR UNITS LOSS IN POST-POLIO SYNDROME.
Malgorzata Gawel1, Ewa Zaleswka1, Elżbieta Szmidt-Salkowska1, Marta Lipowska1, Anna Lusakowska1, Anna Kostera-Pruszczynsky2
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2 Nakło Institute of Biocybernetics and Biomedical Engineering, Polish Academy of Sciences, Warszawa, Poland

P343
THE ELECTROPHYSIOLOGIC FEATURES OF NEUROLYMPHOMATOSIS
Kee Duk Park1, Woo-Kyung Kim2, Hyung Jun Park3, Ha Young Shin4, Seung Min Kim5
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2 Hallym University College of Medicine, Department of Neurology, Seoul, Korea
3 Yonsei University College of Medicine, Department of Neurology, Seoul, Korea

P344
MOTOR CORtical EXCITABILITY CHANGES IN EARLY STAGE ALS PATIENTS USING AUTOMATIC THRESHOLD TRACKING METHOD
Bülent Cengiz1, Reha Kuruoglu1
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CN IN THE DIAGNOSIS AND TREATMENT OF DISEASES 2.
Chair: Benedikte Wanscher
P348
BASELINE SHIFTS AND HIGH FREQUENCY OSCILLATIONS IN HIPPOCAMPAL STEROE-ELECTROENCEPHALOGRAPHY AS SURROGATE MARKERS OF THE ICTAL ONSET ZONE IN MESIAL TEMPORAL LOBE SEIZURES
Nick Tsarouchas1, Liam Gray2, Khalid Hamandi3, Glen Brimble2, Ben Thomas3
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2 Cardiff University Hospital of Wales, Department of Neurosurgery, Cardiff, United Kingdom
3 Cardiff University Hospital of Wales, Department of Neurology, Cardiff, United Kingdom

P349
ASSESSMENT OF PREVALENCE AND RISK FACTORS FOR CARPAL TUNNEL SYNDROME IN POLIO SURVIVORS
Metin Mercan, Arisida Bajrami, Ibrahim Acir, Vildan Yayla
Balikesir State Jadid Koza Training And Research Hospital, Department of Neurology, Izmir, Turkey

P350
AMYOTROPHIC LATERAL SCLEROSIS (ALS) A DISEASE WHEN NEUROPHYSIOLOGY IS AN ESSENTIAL TOOL EVEN IN THE 21ST CENTURY
Klara Fekete, Timea Polayak, Istvan Fekete, Robert Rostas, Ferenc Mechler
University of Szeged, Department of Neurology, Szeged, Hungary

P351
THE ASSESSMENT OF REPEATER F-WAVES IN PATIENTS WITH AMYOTROPHIC LATERAL SCLEROSIS
Nermin Gorkem Sirin1, Emel Oguz Akarsu1, Hava Ozlem Dede1, Lala Mehdihikhanova2, Elif Kocasoy Orhanci1, Metehn Bars Baslos1, Halil Attilla Idrisoglu1, Ali Emre Ogenc1
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2 Istanbul University, Istanbul Faculty of Medicine, Department of Neurology, Istanbul, Turkey

P352
NEUROMYOTONIA – A RARE BUT IMPORTANT ELECTROPHYSIOLOGICAL FINDING
Henning Pilgaard, Martin Lauritzen, Kristzina Benedek
Rigshospitalet, Gisnap, Clinical Neurophysiology, Copenhagen, Denmark

P353
A PROSPECTIVE STUDY OF HIGH RESOLUTION ULTRASOUND IN BRACHIAL PLEXOPATHIES - CORRELATION WITH THE ELECTROPHYSIOLOGICAL MEASUREMENTS
Rune Lau Jakobsen, Anders Fuglsang-Frederiksen, Erisela Qerama
Aarhus University Hospital, Department of Clinical Neurophysiology, Aarhus, Denmark

P354
THE TRIPLE STIMULATION TECHNIQUE AND TRANSCRANIAL MAGNETIC STIMULATION IN AMYOTROPHIC LATERAL SCLEROSIS: A PROSPECTIVE STUDY
Emel Oguz Akarsu1, Nermin Gorkem Sirin1, Hava Ozlem Dede1, Lala Mehdihikhanova2, Elif Kocasoy Orhanci1, Metehn Bars Baslos1, Halil Attilla Idrisoglu1, Ali Emre Ogenc1
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2 Istanbul University, Istanbul Faculty of Medicine, Department of Neurology, Istanbul, Turkey

P355
THE ASSESSMENT OF ELECTROPHYSIOLOGICAL STUDIES IN PATIENTS WITH RESTLESS LEGS SYNDROME
Yesim Kayki, Nermin Gorkem Sirin, Vasfiye Ilbay, Mesure Keoseoglu, Aysum Soysal
Bakirkoy Prof. Dr. Mustafa Gazi Training and Research Hospital for Psychiatry, Neurological and Neurosurgical Diseases, Neurology Department, Istanbul, Turkey

P356
SUDOSCAN AS A DIAGNOSTIC TOOL FOR TRANSTHYRETIN FAMILIAL AMYLOID POLYNEUROPATHY
Ana Sousa, Katica Valdezro, Marcio Cardoso, Joao Anselmo, Monica Freitas, Heder Ferreira, Teresa Coelho
Centre Hospitalier de Porto, Hospital Geral de Santa Antónia, Department of Neuroscience, Oporto, Portugal

P357
RIPPLING MUSCLE DISEASE: TWO CASES NOT ASSOCIATED WITH MYOPATHY AND REVIEW OF THE LITERATURE
Marianna Arnaoutoglou, Chrysostomos Xeras, George Karafilis, Galaktionas Kostantinidis, Anastasios Olorogas
Aristotle University of Thessaloniki, 1st Department of Neurology, Thessaloniki, Greece

P358
EEG RESTING STATES ARE ALTERED IN FOCAL EPILEPSY
Francesca Pittau1, Sara Baldini1, Miralena Iona Tomescu2, Christoph Michel1, Margitta Seeck1
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2 University of Geneva, Functional Brain Mapping Laboratory, Department of Fundamental Neurosciences, Geneva, Switzerland

P359
TEST-RETEST RELIABILITY OF THE SPATIAL DISTRIBUTION OF HIGH FREQUENCY OSCILLATIONS (HFO) IN INTRACRANIAL EEG
Ece Boran1, Sergey Burnos1, Tommaso Fedele2, Nikolaus Kraeyenhult1, Peter Hilfiker2, Thomas Grunwald2, Johannes Sammaritini1
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2 Swiss Epilepsy Centre, Epilepsy Unit, Zurich, Switzerland

P360
AUTOMATED DIAGNOSIS OF TEMPORAL LOBE EPILEPSY IN THE ABSENCE OF INTERCULAR SPikes
Ana Coito1, Thibault Verhoeven1, Gijs Ploem1, Aljoša Thomschewski1, Francesca Pittau2, Eugen Trinka3, Roland Wiest1, Karl Schaller1, Christoph Michel1, Margitta Seeck2, Joni Dambare1, Serge Vuillerme2, Pieter Van Mierlo2
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P361
NEUROPHYSIOLOGIC ALTERATIONS AND EFFECTS OF DRD2 GENE POLYMORPHISM IN BURNING MOUTH SYNDROME
Johannes Sarnthein1
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P362
SUDOSCAN AS A DIAGNOSTIC TOOL FOR TRANSTHYRETIN FAMILIAL AMYLOID POLYNEUROPATHY
Ana Sousa, Katica Valdezro, Marcio Cardoso, Joao Anselmo, Monica Freitas, Heder Ferreira, Teresa Coelho
Centre Hospitalier de Porto, Hospital Geral de Santa Antónia, Department of Neuroscience, Oporto, Portugal

P363
NEUROPHYSIOLOGIC ALTERATIONS AND EFFECTS OF DRD2 GENE POLYMORPHISM IN BURNING MOUTH SYNDROME
Marina Kolka-Paloma1, Heli Forssell1, Arja Virtanen1, Antti Puhakka1, Ullamari Pesonen1, Satu Jääskeläinen2
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2 Turku University Hospital, Department of Clinical Neurophysiology, Turku, Finland

P364
FEMALE FRAGILE X PREMUTATION CARRIERS DO EXHIBIT SUBCLINICAL NEUROLOGICAL SIGNS
Andrea Kovaci1, Zsuzsanna Farkas1, Szilvia Gulyas1, Judit Kaprabi1, Artur Beke1, Anita Kamondi2
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P370 REDUCED HAND DEXTERITY IN PARKINSON’S DISEASE PATIENTS IS ASSOCIATED WITH IMPAIRED INTRACORTICAL INHIBITION
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2 University of Belgrade - Institute for Medical Research, Department of Neurology, Belgrade, Serbia

P374 CAN DIFFUSION WEIGHTED MRI LOCALISE ABNORMALITIES ACUTELY POST-SEIZURE?
Karmer Tandoğan1, Hülya Ertuğrul Toydemir2, Velican Yadı1, Aygül Risulukova1, Elf Demir1, Onur Yıldız2, Erkan İnci3
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2 Bakırköy Dr. Sadi Konuk Training and Research Hospital, Department of Radiology, Istanbul, Turkey

P375 THE MATHEMATICAL APPROACH FOR DIAGNOSIS EARLY STAGE OF PARKINSON'S DISEASE
Aleksandra Kačar1, Marko Jankovic2
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2 University of Belgrade - Institute for Medical Research, Department of Neurology, Belgrade, Serbia

P376 MULTIPLE PHYSIOLOGICAL MEASURES UNDER EXTERNAL-EROTIC STIMULATION DELINEATE BIPOLAR I AND II DISORDERS
Guorong Ma, Qisha Zhu, Chu Wang, Wei Wang
Zhejiang University School of Medicine, Clinical Psychology and Psychiatry, Hangzhou, China

P377 INAPPROPRIATE SEXUAL BEHAVIOR AS AN INITIAL CLINICAL FEATURE IN PROGRESSIVE SUPRANUCLEAR PALSY: CASE REPORT
Haneul Jang, Yong Kim, Jinmann Chon
Kyungpook National University Hospital, Physical Medicine and Rehabilitation department, Seoul, Korea

P378 QUANTITATIVE ELECTROCEPHALOGRAPHIC AND PSYCHOMETRIC ANALYSIS OF POSSIBLE COGNITIVE DECLINE IN HEALTHY ELDERLY SUBJECTS
Ann Abdel Kader1, Ebtesam Fahmy1, Ayatullah Ahmad1, Amira Labib1, Alishaarna Khalil1
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P379 ASSESSMENT OF COGNITIVE FUNCTION IN CHILDREN WITH BENIGN CHILDHOOD EPILEPSY WITH CENTROTEMPORAL SPIKES: AN EVENT-RELATED EEG DESYNCHRONIZATION AND SYNCHRONIZATION STUDY
Mostafa Elholy1, Asmaa Elbrelimi1, Neveen Elsayoury1, Mona Nadia2, Hanan Abdel Ali1
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