Towards Precision Neurology

Abstract submission deadline
13 January 2021
www.ean.org/congress2021

Preliminary Programme and Call for Abstracts
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# Preliminary Programme

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*) Enter the code 10VIRTUAL for 10% off the registration fee. Promotion valid until 15.01.2021. All information included in this booklet is subject to changes.
After the success of the virtual EAN Congress of 2020, the European Academy of Neurology has decided that the current global health situation has not stifled interest in state-of-the-art research and continuing education in neurology. In fact, the opposite is true. With almost 45,000 congress participants in our virtual congress last year, we are happy to be able to offer this opportunity once again.

Together with our trusted delegates, partner societies and corporate industry partners, the European Academy of Neurology aims to bring the virtual congress experience to new levels.

We agree with leading health organisations that the health of our families, friends, colleagues, and patients, especially those who are vulnerable, lies at the top of our concerns. Across the globe, meetings are shifting to online platforms and as all in-person gatherings of large crowds are currently discouraged, we are all thankful for the existing technology that allows us to connect no matter where we are.

The European Academy of Neurology is committed to bringing together leading experts in the field of neurology to exchange ideas, share the latest studies and grow their professional network. In the summer of 2021, we welcome you to join us once again from the comfort of your own home!
Welcome to Vienna

Dear Colleagues and Friends,

we look forward to welcoming you to the 7th Congress of the EAN, which takes place from June 19 to 22, 2021, originally to be held in Vienna. With the current situation around the COVID-19 pandemic, EAN has decided to go virtual again.

Vienna is the capital of Austria and is renowned for its historic and striking architecture, as well as its rich cultural heritage and modern cosmopolity. Neurology as a discipline in Austria dates back to the mid-19th century, with the founding of its first department of neurology in 1846 and the world’s first neurosciences institute in 1882 in Vienna. Since that time Austria has been at the forefront of neurological advances, and has produced numerous historically eminent researchers, such as T. von Meynert, C. Wernicke, H. Obersteiner, O. Marburg, S. Freud, J. Wagner-Jauregg, R. Barany, O. Loewi, E. Sträussler, J. v. Economo, F. Schilder and many others.

It is the combination of rich culture, highly developed infrastructure and neurological history that would have made Vienna an ideal city to host the EAN’s 7th Congress. While this cannot be realised in-person due to the uncertainties linked to the pandemic, EAN attempts to keep the congress design, programme and charm in the context of Austria.

The Overarching Theme of this year’s congress will be *Towards Precision Neurology*, which will be a red thread throughout the congress programme. Because precision neurology spans from epidemiology to genetics, body fluid biomarkers and imaging in diagnosis and prognosis of rare and common neurological disorders as well as to targeted treatments based on personalized decisions and supported by new technologies, such as artificial intelligence, this overarching theme will be in the focus of many sessions. It may engage the interest of all neurologists, being clinicians or scientists, general or specialized neurologists, younger or more advanced generations.

On behalf of the EAN and the Austrian Society of Neurology we invite you to join us for the congress in 2021 and extend you our warmest welcome to what promises to be an outstanding congress in an extraordinary setting.

Claudio Bassetti
President

Tony Marson
Chairperson Programme Committee

Thomas Berger
Chairperson Local Organising Committee
### Committees

**EAN Board**
- Claudio Bassetti, Switzerland
  - President
- Paul A. J. M. Boon, Belgium
  - President elect
- Franz Fazekas, Austria
  - Past President
- Elena Moro, France
  - Secretary General
- Marie José Vidalíhêt, France
  - Treasurer
- Dafin Fior Muresanu, Romania
  - Chair Communication Committee
- Riccardo Soffietti, Italy
  - Chair Education Committee
- Tony Marson, United Kingdom
  - Chair Programme Committee
- Thomas Berger, Austria
  - Chair Scientific Committee
- Matthias Endres, Germany
  - Member at Large

**Local Organising Committee**
- Thomas Berger, Chair
- Julia Ferrari, Elisabeth Fertl
- Christian Enzinger, Stefan Kiechl
- Walter Struhal, Eugen Trinka
- Jörg Werber, Tim von Oertzen
- Fritz Zimprich

**Programme Committee**
- Tony Marson, United Kingdom, Chair
- Thomas Berger, Austria, LOC Chair
- Stefan Evers, Germany
- Urs Fischer, Switzerland
- Sten Fredrikson, Sweden
- Dan Healy, Ireland
- Ulf Kallweit, Germany
- Reetta K. Kälviäinen, Finland
- Caroline Pot-Kreis, Switzerland
- Antonio Toscano, Italy
- Riccardo Soffietti, Italy (Chair Education Committee)
- Irena Rекtorova, Czech Republic
  - (Chair Teaching Course Sub-Committee)
- Walter Struhal, Austria
  - (Ethics & Quality TF representative)
- Salimata Gassama, France
  - (RRFS representative)
- Antonio Toscano, Italy
  - (Chair Teaching Course Sub-Committee)
- Celia Oreja-Guevara, Spain
- Davide Pareyson, Italy
- Erich Schmutzhard, Austria
- Ambra Stefani, Austria
- Roland Wiest, Switzerland
- David García Azorín, Spain
  - (RRFS representative)
- Cristian Falup Pecurarui, Romania
  - (MDS-ES representative)
- Maria Stamelou, Greece
  - (Ethics & Quality TF representative)

**Teaching Course Sub-Committee**
- Irena Rекtorova, Czech Republic, Chair
- Celia Oreja-Guevara, Spain
- Davide Pareyson, Italy
- Erich Schmutzhard, Austria
- Ambra Stefani, Austria
- Roland Wiest, Switzerland
- David García Azorín, Spain
  - (RRFS representative)
- Cristian Falup Pecurarui, Romania
  - (MDS-ES representative)
- Maria Stamelou, Greece
  - (Ethics & Quality TF representative)

### Registration

To register for the congress, please log in on [www.ean.org/congress2021](http://www.ean.org/congress2021) with your MyEAN log-in data and update your personal profile OR create a new account in case you do not have one yet. Click on the “Register Now” button in the slider on top of the page OR go to MyEAN and click on the tab “Congress Registration”. In the registration area you will be able to register to the congress as individual or a group.

If you wish to become an EAN Individual Member and benefit from reduced registration fees, please apply for membership first and kindly await approval of your application.

Please note that only those who have submitted their complete membership application before or by **21 April 2021** can benefit from the congress fee for members. Everyone who applies for membership after 21 April has to pay the full congress registration fee.

If you need help with your EAN profile or have questions regarding your membership status, please contact headoffice@ean.org.

If you have any queries regarding congress registration, please contact registration@ean.org.

The registration fee for participants includes:

- access to all sessions
- abstract submission
- congress package (upon availability)
- access to Industry Network Area and industry sponsored programme
- session webcasts on demand after the congress
**Registration Fees**

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<tr>
<th>Category</th>
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<tr>
<td>Non-member (high income)</td>
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<tr>
<td>Non-member (low/middle income)</td>
<td>€ 120</td>
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<tr>
<td>Associate Member</td>
<td>€ 200</td>
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<td>Fellow of EAN, Full Member, Corresponding Member (high income)</td>
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<td>Fellow of EAN, Full Member, Corresponding Member (low/middle)</td>
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<tr>
<td>Resident and Research Member (low/middle income)</td>
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<td>Student Member</td>
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<td>Corresponding Institutional Member</td>
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<td>Group registration p.P.</td>
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**Cancellation Terms**

All cancellations need to be mailed to registration@ean.org. Refunds of registration fees will be processed as follows:

- before and on Wednesday, 31 March 2021: 75% refund (25% handling fee)
- between Thursday, 1 April 2021 and Wednesday, 5 May 2021: 50% refund (50% handling fee)
- after Thursday, 6 May 2021: no refund

Administration fee for any changes is € 50 incl. VAT.

The entire terms and conditions for individual and group registrations can be downloaded on the website. Save 10% on the registration fee with the discount code IOVIRTUAL!

All prices include 20% Austrian VAT.

1) Only valid, if you have submitted your complete membership application before 21 April 2021.

2) EASN Members from lower-middle/upper-middle countries (according to the World Bank).

3) Associate Members (high income) from national neurological societies from: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Ireland, Israel, Italy, Latvia, Lithuania, Luxembourg, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland, and the Netherlands, United Kingdom.

4) Associate Members (low-middle/upper-middle income) from national neurological societies from: Albania, Armenia, Azerbaijan, Belarus, Bosnia & Herzegovina, Bulgaria, Croatia, FYR Macedonia, Georgia, Kazakhstan, Kosovo, Kyrgyz Republic, Moldova, Montenegro, Romania, Russian Federation, Serbia, Turkey, Ukraine, Uzbekistan.

5) Participants from Algeria, Egypt, Jordan, Lebanon, Libya, Mauritania, Morocco, Nepal, Palestine, Syria, Tunisia.

6) Students must be EAN Student members, PhD students/residents must be members of the EAN Resident and Research Fellow section (see https://www.ean.org/resident-and-research-member#eligibility/en). Application before 21 April 2021 is necessary.

7) Neurologists from countries belonging to the HINARI Group A and B list of countries as established by WHO www.who.int/hinari/eligibility/en may apply.

8) This price is valid for individual group members if you buy a group contingent. If the names of group members are available, membership fees apply.

**Virtual Congress Platform**

In 2021, EAN brings the congress to you! The EAN Virtual Meeting Platform is the heart of the virtual congress. On www.eanvirtualcongress.com, you will find the complete congress programme including the interactive programme planner, all livestreams, interactive sessions and the ePoster area. Additionally, you can find the EAN Social and Creative Areas, and the exhibition area including industry sponsored content and society booths.

**Congress Programme plus livestreams**

The full EAN Congress Programme including all scientific and educational sessions will be livestreamed during the announced timeslots. See programme overview on page 22 - 25. With our interactive programme planner you will be able to create your individual session overview which you can also download to your calendar. The platform also gives access to the webcasts of the previous congress years during the congress.

**Join us at the virtual EAN Booth**

At the Virtual EAN Congress Booth, you will be able to connect with EAN Staff for all questions related to the different parts of EAN. There will be dedicated hours for live chats and Q&A. More detailed information will be published on the EAN Congress website.

**ePoster area**

In the ePoster Area, all accepted ePosters and ePresentations are presented and participants can contact the authors if any questions arise!

**Industry Network Area**

Find the latest pharmaceutical insights, meet with industry representatives via videochat or join “Meet the Expert” Sessions in our sponsor’s Industry Network Areas at the EAN Congress 2021 from anywhere in the world.

**Social Area**

Due to popular demand, we have created a dedicated Social Area for EAN Congress participants. You will be able to connect to your peers over your common topics of interest and meet the experts in your field.

**TV Studio**

This year EAN will provide highlights, wrap-ups and entertainment via its TV-Studio broadcasting live from Vienna. Grab your morning coffee and get to know the highlights of the day or let us end the day together with a “sundowner” reflecting on the congress day’s highlights. You can expect not only entertainment but also valuable information in this new feature area.

**Creative Area**

Tired of learning? Come to the EAN creative area to relax, create memories and find fun, games and crafts – for you and your kids. EAN cares!

Use the virtual printer to post your #EAN2021 photos and watch how they are printed at the EAN Head Office, ready to be picked up at next year’s congress!

Check out the EAN Junior suite, where we will offer many items for our future junior neurologists.
Ean NEuro-covid ReGistrY (ENERGY)

The European Academy of Neurology has set up a global registry to shed light on the burden and general characteristics of neurological complications related to COVID-19 outbreak and the association of these complications with the demographic and clinical features of the affected individuals.

The Ean NEuro-covid ReGistrY (ENERGY) has already had interest from hundreds of sites across the globe and has agreed on data sharing with several existing national and international multicentre COVID-19 studies around the world.

Representatives from clinical sites are welcome to collaborate and can request information on accessing the site by scanning the QR-Code below.

scan me!

www.ean.org

General Information

CME Accreditation
An application has been made to EACCME for CME accreditation of this event.

Congress Package
All printed promotion material and goodies will be sent in a physical EAN Congress package to a limited number of congress participants in Spring 2021.

Congress Website
www.ean.org/congress2021

Opening Session

Join us for our Opening Session on Friday evening to celebrate the start of the 7th EAN Congress!

Friday, 18 June 2021 – 18:30 CEST

The Opening Session will be chaired by the EAN president, Programme Committee chair and LOC chair. The Opening lecture will be held by Jürgen Knoblich, and is followed by a welcoming act! We look forward to welcoming you to the congress!

The congress website is updated on a regular basis and will give latest details on the scientific programme and other important congress information.
Call for Abstracts

The Programme Committee welcomes the submission of abstracts on any neurological topic (see page 15). There are two types of presentations, oral platform presentation and ePoster (divided into subcategories).

Please note that all presentations will be held virtually. Details on the specific presentation format will be given with the individual acceptance letters and on the EAN website.

If you do not want to give a platform presentation, please select “poster only” when submitting your abstract. If you have no special preference, please select “poster or oral”. Authors will be notified of the method of presentation in March 2021, which will be decided by the Programme Committee. Accepted abstracts will be published in a supplement to the European Journal of Neurology on the congress website 1 day prior to the congress, provided that the Programme Committee considers them suitable for publication.

Abstracts must be submitted via your MyEAN profile. Please login/register with your MyEAN user information, go to the MyEAN User Area and click on the tab “Abstract Submission”. If you need help, please contact EAN Head Office at abstracts@ean.org. Abstracts cannot be accepted if sent by fax or email.

Guidelines for Submission

1. The abstract should contain new information, and should be as informative as possible:
   - state specific object of study
   - state method used if pertinent
   - summarise results obtained
   - state conclusions reached
   - avoid general statements (e.g. “results will be presented”)

2. Abstracts should be structured with the subheadings: Introduction, Methods, Results, Conclusion.

3. Abstracts must be submitted in English. Standard abbreviations may be used.

4. Abstract length must not exceed 250 words (heading excluded).

5. A maximum of 3 abstracts per presenting author may be submitted.

6. Inclusion in the Scientific Programme and Abstract Volume depends on (punctual) payment of registration fees.

ALL abstracts will be checked using a plagiarism software.

Abstract Topics

| 1 | Ageing and dementia |
| 2 | Autonomic nervous system |
| 3 | Cerebrovascular diseases |
| 4 | Child neurology/developmental neurology |
| 5 | Clinical neurophysiology |
| 6 | Cognitive neurology/neuropsychology |
| 7 | Critical care |
| 8 | Education in neurology |
| 9 | Epilepsy |
| 10 | Ethics in neurology |
| 11 | Headache and pain |
| 12 | History of neurology |
| 13 | Infectious diseases |
| 14 | Motor neurone diseases |
| 15 | Movement disorders |
| 16 | MS and related disorders |
| 17 | Muscle and neuromuscular junction disease |
| 18 | Neuroepidemiology |
| 19 | Neurogenetics |
| 20 | Neuroimaging |
| 21 | Neuroimmunology |
| 22 | Neurological manifestations of systemic diseases |
| 23 | Neurology and arts |
| 24 | Neuro-oncology |
| 25 | Neuro-ophthalmology/neuro-otology |
| 26 | Neurorehabilitation |
| 27 | Neurotoxicology/occupational neurology |
| 28 | Neurotraumatology |
| 29 | Peripheral nerve disorders |
| 30 | Sleep disorders |
| 31 | Spinal cord and root disorders |
| 32 | COVID-19 |

ABSTRACT SUBMISSION DEADLINE
13 January 2021
ABSTRACTS MUST BE SUBMITTED ONLINE:
www.ean.org/congress2021
Due to the uncertainty and restrictions around travel for 2020 and the foreseeable future, the bursary grant has been adapted as follows. For the congress in 2021, bursaries consist of a free registration to the 2021 and the 2022 congress. This includes access to the webcasts during and until two weeks after each congress. EAN offers 240 bursaries in 2021.

Eligibility
Eligible are EAN Resident and Research Members from EAN member countries. For further information, please check our RRFS page www.ean.org/rrfs.

It is also possible for RRFS members from Algeria, Egypt, Jordan, Lebanon, Libya, Mauritania, Morocco, Nepal, Palestine, Syria and Tunisia as well as from sub-Saharan countries belonging to the HINARI Group A list of countries as established by WHO (www.who.int/hinari/eligibility/en/) to apply for bursaries.

Because it is our goal to promote neurology across the world, we invite you to join us as a RESIDENT & RESEARCH MEMBER no matter which country you come from!

rrfs@ean.org

Tournament for Neurologists in Training

A tournament for neurologists in training will take place. The tournament will be carried out in two groups, one on clinical related research, and one on basic neurological science.

Participation
- Eligible are EAN Resident and Research Members. For further information, please check our EAN RRFS membership package.
- The participant must be the first author of the abstract submitted.
- During abstract submission, candidates must state that they wish to participate in the tournament and select the group (clinical/basic).
- Applications will be accepted until the abstract submission deadline, 13 January 2021.

Selection of candidates
The EAN Programme Committee will select 6 candidates for each tournament group based on the contents of the abstracts submitted. The clinical subjects must be received from authors who work in Europe and thus carry out their projects in Europe. For the basic science session, clinical relevance will be weighted.

Financial Support
Candidates selected for the tournament will receive a bursary consisting of free registration to the congress 2021.

Presentation
Each selected candidate is allotted 10 minutes for presentation of his/her paper plus 5 minutes for discussion with the jury. In addition, each paper will be presented within the oral session of the respective topic. The winners will present their work during the Plenary Highlight Session on Tuesday morning.

Jury
Members of the Programme, the Scientific and the Teaching Course Committees.

Evaluation
Candidates will be judged not only on the scientific value of the work presented, but also on the quality of the oral presentation and the way the candidate responds to the questions of the jury.

Prize
The winner of each group will receive a prize consisting of 1000 € in cash and a certificate. Two runner-up prizes in each tournament will be awarded 500 € in cash and a certificate.
Investigator Award

All free presentations (oral presentations, ePresentations, ePosters) selected for presentation at the 7th EAN Congress 2021 will automatically take part in the selection of an Investigator Award. The award for the 20 best presentations will be a free registration to the 8th EAN Congress, a certificate and the winners will be announced on www.eanpages.org. The award will be given to the first author, who needs to be the person to present the work at the congress.

The EAN Scientific Panels together with the Scientific and Programme Committees will be responsible for the evaluation process before as well as during the congress.
Session Descriptions

Scientific sessions

**Plenary Symposia**
One Plenary Symposium per day is scheduled, with no other session held in parallel. During these four sessions, outstanding speakers will present the Opening lecture, Named Lectures, the most relevant topics within the Overarching congress theme and the highlights of the congress.

**Symposia**
are scheduled on each congress day and will last 2 hours each. Lecturers will give general information on the main topics of the congress.

**Focused Workshops**
will be held in the morning and last for 1.5 hours. They cover narrow topics and aim to promote discussion around new ideas, evidence or theories. Ample time for discussion will be provided.

**Special Sessions** cover topics of special interest.

Educational sessions

**Teaching Courses**
are held on each congress day in the afternoon and last for 3 hours (incl. coffee break). They are interactive with opportunity for participants to ask questions. All TCs are aimed primarily at a post-graduate audience.

There are 3 levels of TCs:
- Level 1 (Introductory): For neurologists in training, or those wishing to update their basic knowledge and can also be suitable for undergraduates or general trainees with a particular interest.
- Level 2 (standard): Assumes familiarity with basic clinical knowledge and practice, aimed at specialist trainees or practitioners wishing to update and further develop their knowledge.
- Level 3 (advanced): Aimed at specialist trainees or practitioners covering the latest advances of particular interest to a specialist audience.

**Practical Lessons**
(discussion) are dedicated to a practical demonstration of certain skills, machines, devices or programmes. The presenters in each session will start with an introduction followed supported by videos showing the demonstration related to the course outline.

**Case-based Workshops**
are to support knowledge and practice in clinical diagnosis and management in a format which requires the attendees to actively participate, with opportunities for direct discussion/contact with leading experts to discuss the presented cases.

**Controversy Sessions**
allow to give a critical overview of the current and most recent advances on key topics, share knowledge, stimulate debate and forge opinions on controversial issues of clinical care, research, educational practice and therapy.

**Interactive Sessions**
These sessions are based on case presentations including interactive voting via a polling system.

The opinions of colleagues will be collected and integrated in the live summary.

**EAN BrainChallenge**
The session will give a platform for interactive learning using quiz questions.

To participate in the competition, you have to give the correct answer to 16 case presentations in a short time.

To receive a certificate of attendance, the evaluation of each visited course has to be completed and sent via the ean Virtual Congress Platform.

Clinical Grand Rounds
In this session, highly experienced neurologists will interview and examine real patients with difficult or complex neurological conditions. They will discuss the clinical diagnosis, request and review all available diagnostic tests and will end by formulating a final diagnosis.
### Saturday, 19 June 2021

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<tr>
<th>Start</th>
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<th>Session</th>
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<tr>
<td>08:00</td>
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<td>MDS-ES: The unknown that we should know</td>
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<td>MS-related fatigue - tired of inflammation?</td>
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<td>New therapeutic approaches in rare neurological diseases</td>
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<td>Aetiology-driven therapy in epilepsy: From bedside to bench</td>
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<td>EAN/MDS-ES: The role of the muscle acetylcholine receptor isoforms in myasthenic syndromes</td>
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<td>Precision medicine in neurointensive care</td>
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<td>Infections as triggers on autoimmunity</td>
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<td>New developments in understanding disorders of language</td>
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<td>ATL1</td>
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<td>08:00</td>
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<td>Early Bird Satellite Session</td>
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<td>08:00</td>
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<td>EAN/MDS-ES: Stiff people: On spasticity and beyond (Level 2)</td>
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<td>COVID19 Session</td>
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<td>Forum talks</td>
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<td>3-day-Sat.Session</td>
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<td>10:00</td>
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<td>3 Presidents Symposium Future of Sleep Medicine</td>
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<td>Updates in innovative diagnostic methods for Parkinson’s disease</td>
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<td>EAN/ILAE-EUROPE. Post stroke epilepsy - on the way to precision neurology</td>
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<td>Are we able to prevent some symptoms in neurogenetic disorders?</td>
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<td>EAN/EAPC. Personalised palliative care for chronic progressive neurological disease</td>
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<td>EAN/EANO. Precision Neuro-ontology</td>
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<td>Disorders of Spatial Orientation and Navigation</td>
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<td>Satellite Symposium</td>
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<td>3-day-Sat.Session</td>
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<td>Needle electromyography (Level 1)</td>
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<td>Stroke mimics and stroke chameleons</td>
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<td>Oral Session</td>
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<td>EAN/MDS-ES: European Basil Ganglia Club</td>
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<td>Afrika Task Force: Neuro-Covid across the continents</td>
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<td>Rare Diseases: Precision Medicine and Rare neurological disorders</td>
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<td>Basics of sleep medicine (Level 1)</td>
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<td>Psychogenic non-epileptic seizures (PENS): Chameleon and challenge (Level 2)</td>
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<td>Antibodies: from autoimmune encephalitis to demyelinating myelopathies (Level 2)</td>
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<td>Diagnosis and treatment of vestibular and ocular motor disorders (Level 2)</td>
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<td>Special indications for neurosonology examination (Level 3)</td>
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<td>TC 1</td>
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<td>16:45</td>
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<td>EBC: More than a gut feeling: The gut brain axis in neuroinflammation and neurodegeneration</td>
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### Sunday, 20 June 2021

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<tr>
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<tr>
<td>07:15</td>
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<td>Early Bird Satellite Session</td>
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<td>Diagnosis and management of uncommon causes of refractory status epilepticus</td>
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<td>Precision medicine in stroke - where are we?</td>
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<td>Emerging and future diagnostics in Alzheimer’s disease and dementia</td>
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<td>EAN/MDS-ES: Experimental therapies for rare movement disorders</td>
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<td>Focus on Biomarkers in Common Diseases?</td>
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<td>Immune checkpoint inhibitors: a step towards precision neurology</td>
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<td>EAN/PNS: Forty years of anti-nerve antibodies in neuropathy: still moving on.</td>
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<td>Neurophysiological Means for Evaluation of Sensory Deficit</td>
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<td>Not everything is neuro-covid – don’t forget the others in a moving world</td>
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<td>New Neurological Guidelines</td>
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<td>5-day-Sat.Session</td>
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<td>Presidential Symposium (Brain Prize and Named Lectures Lecture)</td>
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<td>EPFA Session</td>
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<td>Challenges for women in neurology (Lunch Session)</td>
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<td>Laboratory diagnostic methods in neuroinfections (Level 2)</td>
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<td>How to develop a career in the field of Muscle and Neuromuscular junction disease</td>
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<td>Precision medicine in the management of hemorrhagic stroke</td>
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<td>Grand Round Session</td>
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<td>Movement disorders in systemic diseases (Level 2 or 3)</td>
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<td>How to examine cognition in everyday clinical practice? (Level 3)</td>
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<td>Management of migraine (Level 2)</td>
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<td>Paraneoplastic neurological syndromes in 2021: diagnosis, prognosis, and treatment (Level 2)</td>
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<td>Peripheral neuromyopathies and viruses: Multiple associations (Level 2)</td>
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<tr>
<td>16:45</td>
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<tr>
<td>16:45</td>
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<td>Controversies in pain research. Is it possible to diagnose neuropathic pain with neurophysiological testing? &amp; Does migraine with Brainstem Aura exist?</td>
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<td>How to manage antiepileptic drugs in women of childbearing age with epilepsy</td>
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<td>RRS - P.H.D. and the neurology residency: why, when and how?</td>
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<td>Satellite Symposium</td>
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### Monday, 21 June 2021

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<td>SAT Early Bird Satellite Session</td>
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<tr>
<td>08:00</td>
<td>09:30</td>
<td>CDW 5 Target clinical question, target neuro-focus answer</td>
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<td>08:00</td>
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<td>FW 14 Migraine diagnosis in the era of precision medicine</td>
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<td>FW 15 A path toward precision medicine in neurogenetics. One technique for one disease?</td>
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<td>08:00</td>
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<td>FW 16 The elderly patient with multiple sclerosis</td>
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<td>FW 17 Precision medicine in Parkinson’s disease</td>
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<td>FW 18 The pearls and pitfalls of neuroimaging for the spinal cord: from diagnosis to treatment</td>
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<td>FW 19 Will precision medicine life-changing for people living with neuromuscular disease?</td>
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<td>FW 20 EPNS: Neurometabolic diseases of childhood growing into adulthood phenotypes</td>
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<td>OS 6 Characterizing cognitive impairment in synucleinopathies. (Level 2)</td>
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<td>OS 9 Central European contribution to the discovery of major neurodegenerations</td>
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<td>SAT 4: How to write a scientific article?</td>
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<td>CDW 2 3-day-Sat.Session</td>
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<td>3DS Towards Precision Neurology</td>
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<td>PLEN 3 EPNA Session</td>
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<td>3DS 3-day-Sat.Session</td>
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<td>SAT Diagnoses in neuro-ophthalmology you don’t want to miss</td>
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<td>CDW 6 Stroke syndromes presenting with acute cognitive dysfunction (Level 1)</td>
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<td>OS 2 Diagnostic methods in NEUROLOGICAL sleep medicine (Level 1)</td>
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<td>SYMP 8 The next revolution for neurotherapy? Navigated transcranial ultrasound</td>
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<td>SYMP 9 Models for explaining phenotype(s)</td>
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<td>SYMP 10 Chrononeurology - rhythmity in neurological disorders</td>
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<td>OR 5 Oral Sessions</td>
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<td>TC 10 Neuropathology of dementia: diagnosis on microscope (Level 2)</td>
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<td>TC 11 Management of nonmotor disorders in Parkinson’s disease</td>
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<td>TC 12 Clinical and therapeutic puzzling muscular conditions (Level 2)</td>
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<td>TC 13 Neuroradiology in the management of acute vascular diseases (Level 3)</td>
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<td>TC 14 The differential diagnosis of amyotrophic lateral sclerosis (Level 3)</td>
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<td>3DS 3-day-Sat.Session</td>
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<td>CONT 2 Challenges in translational neurosciences - part 1</td>
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<td>14:45</td>
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<td>T Tournament Clinical</td>
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<td>CONT 3 Controversies in Amyotrophic Lateral Sclerosis. MRI. To be, or not to be, that is the question</td>
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<td>18:30</td>
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<td>SAT Satellite Symposium</td>
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### Tuesday, 22 June 2021

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<td>SAT Early Bird Satellite Session</td>
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<td>PL 7 MUNIX and phrenic nerve conduction studies (Level 3)</td>
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<td>SYMP 11 EAN/ESO: Recent advances in acute stroke pathophysiology and treatment</td>
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<td>SYMP 12 Towards personalized Multiple Sclerosis care</td>
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<td>CDW 7 Look into the eyes and find the gene</td>
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<td>OS 2 Basic statistics for neurologists</td>
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<td>OS 8 Dystonia – New genes opening the door for new treatment options?</td>
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<td>OS 11 AFAN</td>
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<td>SYMP 12 WFN Promoting brain health</td>
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<td>3DS 3-day-Sat.Session</td>
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<td>PLEN 4 Highlights and Breaking News</td>
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<td>SAT EPNA Session</td>
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<td>CDW 8 EAN/INUS How to manage neurogenic unreflex and bowel dysfunction neurologist</td>
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<td>OS 9 Transient loss of consciousness (TLOC) - when neurology meets cardiology</td>
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<td>SYMP 13 How sex and gender differences may impact research and clinical practice in neurology</td>
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<td>SYMP 14 European Journal of Neurology</td>
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<td>SYMP 13 Brain-heart axis and autonomic dysfunction</td>
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<td>TC 15 How do MS therapies work? (Level 2)</td>
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<td>TC 16 Individualized secondary prevention after stroke (Level 1)</td>
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<td>TC 17 The role of neuroimaging in neuro-oncology - an update (Level 2)</td>
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<td>TC 18 Repeat Expansion Disorders: clinical features, management and future trials.</td>
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<td>CONT 4 Challenges in translational neurosciences - part 2 &amp; Treatment of severe forms of MS (Level 2)</td>
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Presidential Symposium

Sunday, 20 June 2021
10:00 – 12:00, Main Auditorium

Chairpersons:
Claudio Bassetti, Bern, Switzerland
Thomas Berger, Vienna, Austria

Charles Édouard Brown-Séquard Lecture
With this lecture EAN wants to recognize and honour an outstanding and commendable basic or clinical neuroscientist with major contributions in the fields of systems neuroscience.

Jean-Claude Baron, Paris, France
The core/penumbra model: implications for acute stroke treatment and patient selection in 2021

Camillo Golgi Lecture
This Named Lecture is to recognize and honour an outstanding and commendable basic or clinical Neuroscientist in the field of modern neuroanatomy, imaging or molecular research.

Adriano Aguzzi, Zurich, Switzerland
History of prion science

Moritz Romberg Lecture
The aim of this lecture is to recognize and honour an outstanding, influential and exemplary clinician in neurology.

Gábor M. Halmágyi, Sydney, Australia
Romberg and his famous test – what more do we know 170 years later

The Brain Prize Lecture
This lecture is to promote “Excellence in Neurology” by disseminating highly original and influential advances in neuroscience as recognized by the Brain Prize. This is a personal research prize awarded annually by the Lundbeck Foundation and the EAN Board selects the Brain Prize lecturer from the past Brain Prize Winners.

Huda Zoghbi, Houston, United States of America
Winner of the Brain Prize 2020

Overarching Theme

Towards Precision Neurology

Monday, 21 June 2021
10:00 – 12:00, Main Auditorium

Plenary Symposium 3

Towards Precision Neurology

Chairpersons
Marianne de Visser
Amsterdam, The Netherlands
Thomas Berger, Vienna, Austria

• Epidemiology meets deep learning and artificial intelligence
Peter Willeit
Innsbruck, Austria

• Current and future use of precise tools (e.g. genetics, biomarkers, imaging) for personalized
Manuel Comabella
Barcelona, Spain

• Individual treatment decisions based on precision neurology
Francesco Muntoni
London, United Kingdom

• Precision Medicine without limits? Ethical and economic challenges
Alena Buys
Munich, Germany

New therapeutic approaches in rare neurological diseases

Chairpersons
Martha Feucht
Vienna, Austria

Nadine van de Beek
Rotterdam, The Netherlands

• Transition from paediatric to adult care: Treatments for rare diseases the adult neurologist needs to know about.
Ulrike Schara-Schmidt
Essen, Germany

• Rare neuromuscular disorders: from precise diagnosis to personalized treatment
Teresinha Evangelista
Paris, France

• Rare and complex epilepsy syndromes: from precise diagnosis to personalized treatment
Eugen Trinka

Saturday, 19 June 2021
08:00 – 09:30, Room Oslo

Focused Workshop 2

New therapeutic approaches in rare neurological diseases

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Paris, France

• Rare and complex epilepsy syndromes: from precise diagnosis to personalized treatment
Eugen Trinka
Overarching Theme I Symposia

Saturday, 19 June 2021
10:00 – 12:00, Main Auditorium
Symposium 1

5 Presidents’ Symposium
Future of Sleep Medicine

Chairpersons
Claudio Bassetti, Bern, Switzerland
Ulf Kallweit, Witten, Germany

• Sleep Apnea and Cerebrovascular Disease- 2021 update
  James Stevens (AAN President)
  Indiana, United States of America

• REM Sleep Behaviour Disorder (RBD): future implications for neuro-degenerative disease
  Claudia Trenkwalder (MDS President)
  Kassel, Germany

• Narcolepsy: An immune-mediated hyothalamic disease
  Claudio Bassetti (EAN President)
  Bern, Switzerland

• World Sleep Society
  Birgit Högl (WSS President)
  Innsbruck, Austria

• Is Paradoxical (REM) sleep a motor state?
  Pierre-Hervé Luppi (ESRS President)
  Lyon, France

Symposia

Saturday, 19 June 2021
10:00 – 12:00, Room Oslo
Symposium 2

Updates in innovative diagnostic methods for Parkinson’s disease and other synucleinopathies

Chairperson
Irena Rektorova
Brno, Czech Republic

• Imaging for Parkinson’s disease
  Irena Rektorova
  Brno, Czech Republic

• Has genetics changed management of Parkinson’s disease
  Alessio Di Fonzo
  Milan, Italy

• Laboratory biomarkers for diagnosis of Parkinson’s disease – is there evidence?
  Per Svenningsson
  Stockholm, Sweden

• Neuropathologic signature of synuclein dissemination in Parkinson’s disease
  Kelly del Tredici
  Ulm, Germany

Saturday, 19 June 2021
10:00 – 12:00, Room Amsterdam
Symposium 3

EAN/ILAE-EUROPE: post stroke epilepsy – on the way to precision neurology

Chairperson
Tim von Oertzen
Linz, Austria

• Epileptogenesis after intial insult
  Asla Pitkänen
  Kuopio, Finland

• Stroke, Seizures, and Epilepsy – Precision from the clinical perspective
  Tim von Oertzen
  Linz, Austria

• Infections as etiology of epilepsy, treatment, and prognosis
  Matthias Koepp
  London, United Kingdom

• Posttraumatic epilepsy - current treatment
  Marte Helene Bjørk
  Bergen, Norway

Focus on Biomarkers in Common Diseases?

Chairpersons
Charlotte Cordonnier
Lille, France
Christine Klein
Lübeck, Germany

• Genetics: What are the “true” genetic biomarkers in neurological disorders
  Nicholas Wood
  London, United Kingdom

• Body fluid markers: recent developments
  Bruno Giometto
  Trento, Italy

• Neuroimaging: Impact on treatment decisions and disease monitoring
  Marion Smits, Rotterdam
  The Netherlands
Saturday, 19 June 2021
10:00 – 12:00, Room Lisbon
Symposium 4
Are we able to prevent some symptoms in neurogenetic disorders?

Chairpersons
Antonio Federico
Siena, Italy

Marianne de Visser
Amsterdam, The Netherlands

- Are we able to prevent or minimize the symptoms in leukodystrophies?
  Ludger Schöls
  Tübingen, Germany

- How early diagnosis help to prevent the cardiological manifestations in neuromuscular disorders
  Marianne de Visser
  Amsterdam, The Netherlands

- Personalized preventive approaches for stroke prevention in neurogenetic disorders
  Anita Arsovska
  Skopje, North Macedonia

Saturday, 19 June 2021
10:00 – 12:00, Room Vienna
Symposium 5
EAN/EAPC: Personalised palliative care for chronic progressive neurological disease

Chairperson
Christophe Ostgathe
Erlangen, Germany

- Advancing precision care in advanced MS – the EAN Guideline
  Alessandra Solari
  Milan, Italy

- Personalised Care of Late Stage Parkinsonism – the CLaSP study
  Stefan Lorenz
  Salzburg, Austria

- Personalised palliative care improves quality of life for neurological patients
  Irene Higginson
  London, United Kingdom

Saturday, 19 June 2021
10:00 – 12:00, Room Copenhagen
Symposium 6
EAN/EANO – precision Neuro-oncology

Chairperson
Riccardo Soffietti
Turin, Italy

- Targeted therapy for glioblastoma
  Emilie Le Rhun
  Zurich, Switzerland

- Targeted therapy for rare brain tumors
  Roberta Rudá
  Turin, Italy

- Targeted therapy for brain metastasis
  Matthias Preusser
  Vienna, Austria

- Targeted therapies for brain tumors in children
  Sabine Müller
  San Francisco, United States of America

Saturday, 19 June 2021
10:00 – 12:00, Room Berlin
Symposium 7
Disorders of Spatial Orientation and Navigation

Chairperson
Thomas Brandt
Munich, Germany

- Aging and cognition of space
  Thomas Wolbers
  Magdeburg, Germany

- Spatial navigation deficits as cognitive markers for preclinical Alzheimer disease
  Jan Laczo
  Prague, Czech Republic

- Neurological disorders of spatial orientation and navigation
  Thomas Brandt
  Munich, Germany
### Symposium 8
**The next revolution for neurotherapy?**
Navigated transcranial ultrasound for surgery, blood brain barrier opening and neuromodulation

**Chairpersons**
- Roland Beisteiner  
  Vienna, Austria  
- Jakub Hort  
  Prague, Czech Republic

- Focal surgery with ultrasound  
  Andres Lozano  
  Sevilla, Spain

- Focal blood brain barrier opening with ultrasound  
  Jean-Francois Aubry  
  Paris, France

- Focal neuromodulation with ultrasound  
  Roland Beisteiner  
  Vienna, Austria

#### Models for explaining phenotype(s)

**Chairpersons**
- Antonio Federico  
  Siena, Italy

  Michelangelo Mancuso  
  Pisa, Italy

  - Clinical heterogeneity of Neurogenetic diseases: introductory overview  
    Antonio Federico  
    Siena, Italy

  - One gene and more different onset (neonatal, infantile, juvenile, adult): a geneticist  
    Jean Marc Burgunder  
    Bern, Switzerland

  - Gene-gene interactions (i.e. ApoE, apoptosis genes)  
    Judit Molnar  
    Budapest, Hungary

  - Gene-environments interactions  
    Ernesto Burgio  
    Brussels, Belgium

### Symposium 9
**Models for explaining phenotype(s)**

**Chairpersons**
- Antonio Federico  
  Siena, Italy

  Michelangelo Mancuso  
  Pisa, Italy

  - Clinical heterogeneity of Neurogenetic diseases: introductory overview  
    Antonio Federico  
    Siena, Italy

  - One gene and more different onset (neonatal, infantile, juvenile, adult): a geneticist  
    Jean Marc Burgunder  
    Bern, Switzerland

  - Gene-gene interactions (i.e. ApoE, apoptosis genes)  
    Judit Molnar  
    Budapest, Hungary

  - Gene-environments interactions  
    Ernesto Burgio  
    Brussels, Belgium

### Symposium 10
**Chrononeurology – rhythmicity in neurological disorders**

**Chairperson**
- Stefan Evers  
  Münster, Germany

- The Biological Clock and Neurological Diseases  
  Debra Skene  
  Surrey, United Kingdom

- Rhythmicity in Headache Disorders  
  Christoph Schankin  
  Bern, Switzerland

- The Timing of Stroke  
  Stefan Evers  
  Münster, Germany

- How sleep and sleep loss affect brain disorders  
  Rolf Fronczek  
  Leiden, The Netherlands

### Symposium 11
**Recent advances in acute stroke pathophysiology and treatment**

**Chairpersons**
- Sonia Abilleira  
  Barcelona, Spain

- Linxin Li  
  Oxford, United Kingdom

- Covert Brain Infarction: Towards Precision Medicine in Research, Diagnosis and Therapy for a Silent Pandemic  
  Thomas Meinel  
  Bern, Switzerland

- The importance of hypertension in secondary stroke prevention  
  Linxin Li  
  Oxford, United Kingdom

- Acute stroke management: drip-and-ship or mothership?  
  Sonia Abilleira  
  Barcelona, Spain

- Secondary stroke prevention for cardioembolic stroke: PFO, LAAO, Atrial cardiopathy, cardiac imaging (CT/ MRI) for detection of cardiac source of embolism.  
  Mira Katan  
  Zurich, Switzerland
### Symposiums

#### Tuesday, 22 June 2021

**08:00 – 10:00, Room Oslo**  
**Symposium 12**

**Towards personalized Multiple Sclerosis care**

**Chairpersons**  
Salimata Gassama  
Paris, France  
Sten Fredrikson  
Stockholm, Sweden

- Imaging methods to predict and monitor individual disease courses  
Christian Enzinger  
Graz, Austria

- Bodyfluid-biomarkers in multiple sclerosis and related disorders: diagnose, predict, monitor  
Charlotte Teunissen  
Amsterdam, The Netherlands

- Virtual monitoring of MS patients by digital biomarkers—lessons learned from the COVID19-pandemia  
Yvonne Naegelin  
Basel, Switzerland

- Disease-modifying treatments in MS—how to individualize treatment decisions in daily routine practice?  
Mar Tintoré  
Barcelona, Spain

**Tuesday, 22 June 2021**  
**13:00 – 15:00, Main Auditorium**  
**Symposium 13**

**Brain–heart axis and autonomic dysfunction**

**Chairperson**  
Max Hilz  
Erlangen, Germany

- Brain–heart axis and central lesions inducing autonomic dysfunction  
Max Hilz  
Erlangen, Germany

- Central ANS dysfunction and brain–heart interactions: from physiological profiling to functional imaging  
Jens Jordan  
Cologne, Germany

- Intracranial Pressure and sympathetic activity  
Anne Pavy-Le Traon  
Toulouse, France

- Neurocardiac axis: Heart effects on brain in heart failure  
Constandina Arvanitis  
Toulouse, France

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