Neurology: Learning, knowledge, progress and the future

Key symposia:
- Presidential Symposium (Sleep and the pathophysiology/outcome of neurological disorders)
- Advances in stroke prevention and treatment
- Parkinson and Parkinsonism
- Personalised treatment in MS
- Recent advances in Alzheimer and other dementias

The congress programme includes 23 teaching courses, 9 workshops, practical sessions in clinical neurophysiology, interactive case presentations and selected scientific sessions in the form of oral and poster sessions.

Abstract submission deadline: 18 January 2013
Early registration deadline: 20 March 2013

For further information please contact:
ENS 2013, c/o Congrex Switzerland Ltd.
Peter Merian-Strasse 80, 4002 Basel / Switzerland
Phone +41 61 686 77 77 Fax +41 61 686 77 88
Email basel@congrex.com
Sunday 10 June 2012, 12:00–13:30  
Room B, Prague, Czech Republic

**PROGRAMME**

**The case of Niemann-Pick type C (NP-C): From suspicion to evidence-based therapy**

Satellite Symposium on the occasion of the 22nd ENS Congress  
with educational financial support provided by Actelion Pharmaceuticals Ltd

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<td>Frédéric Sedel</td>
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<td>Identifying the suspects of NP-C</td>
<td>Alessandro Burlina (Italy)</td>
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<td>Differential diagnosis: Compiling the evidence for NP-C</td>
<td>Charles M Lourenço (Brazil)</td>
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<td>Slowing the progression of NP-C: Treatment options</td>
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<td>13:05 – 13:25</td>
<td>Evaluating treatment success: Markers to monitor NP-C</td>
<td>Frédéric Sedel</td>
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<td>Discussion &amp; Conclusions</td>
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**Actelion booth and Symposium location**

Please visit us at booth no. 112

**DOWNLOAD THE ENS 2012 App!**

- Navigate the programme
- Access presented abstracts
- Locate exhibitors
- Synchronise sessions with your personal calendar
- Access interactive map and directory

Scan the QR code for easy download:

- iOS
- Android
- Blackberry

For other operating systems please check the corresponding App Store.
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Committees

**ENS Executive Committee**
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Past President: Z. Argov, IL
Secretary: G. Moonen, BE

**Members**
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(Scientific Programme Director)
K. Bhatia, UK
H. Cock, UK
M. Dieterich, DE
M. Filippi, IT
(Teaching Course Director)
L. Kappos, CH (Treasurer)
E. Ruzicka, CZ
E. Scarpini, IT
A. Siva, TR
G. Stoll, DE
A. Verdelho, PT

**Journal of Neurology**
*Official Journal of the European Neurological Society*
Joint Chief Editors:
R.A. Barker, UK
M. Filippi, IT
M. Strupp, DE

**Local Organising Committee**
J. Bednarík
P. Kanovský
M. Bojar
I. Rektor
E. Havrdová
J. Roth
R. Jech
K. Šonka
P. Kalvach
J. Vymazal

**Chairperson of the 22nd ENS Meeting**
Prof. Evžen Růžička
Charles University
Department of Neurology and Centre of Clinical Neuroscience
1st Faculty of Medicine and General University Hospital
Katerínská 30
120 00 Prague 2
Czech Republic
Dear Colleagues and ENS Members,

On behalf of the Local Organising Committee, it is my privilege and great pleasure to cordially invite you to participate in the 22nd Meeting of the European Neurological Society. The meeting will take place in Prague, the heart of Europe, from 9 to 12 June 2012.

It is the aim of the organisers to provide participants with an outstanding programme, balancing scientific excellence with high-quality clinical practice. The ENS Meetings have long been an ideal venue for continuing education in all branches of neurology, from teaching courses to workshops, and foster the exchange of new research between academic neurologists and neuroscientists in the symposia, satellite symposia and free communications, which cover a wide spectrum of topics in neurology and related fields.

Prague, with a history spanning eleven centuries, is magnificently situated on the Vltava River and boasts many splendid sights including the picturesque Charles Bridge, the Old Town Hall and Astronomical Clock and the old Jewish Quarter with its synagogues and cemetery. Prague’s history also includes the founding of one of the oldest universities in Europe in 1348 by Charles IV, Czech King and Roman Emperor, and a great supporter of science and education. Among many others, distinguished personalities in neuroscience such as Jan Evangelista Purkyne and Arnold Pick carried out their research at Charles University.

Together with the ENS Administrative Office at Congrex Switzerland, we trust that this will be an exciting and memorable event, both scientifically and socially, and we look forward very much to welcoming you to Prague in June 2012.

Prof. Evžen Růžička
Chairperson of the 22nd ENS Meeting
Important Addresses

Secretariat
European Neurological Society (ENS)
Peter Merian-Strasse 80
4002 Basel / Switzerland
Tel: +41 61 691 51 11
Fax: +41 61 686 77 88
Email info@ensinfo.org
www.ensinfo.org

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ENS 2012
c/o Congrex Switzerland Ltd.
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Fax: +41 61 690 94 14
Email ens.hotel@congrex.com
www.congrex.com

Congress Venue
Prague Congress Centre
5. kventa 65
140 21 Prague 4
Czech Republic
Tel: +420 261 171 111
Fax: +420 261 172 062
Email booking@kcp.cz
www.kcp.cz
Sponsor Acknowledgements

The ENS wishes to express its gratitude to the following companies who, through their generosity, have helped to make this congress possible:

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Bronze Medal Sponsors

[Logos of Merck Serono, Merck, UCB, Genzyme, Actelion, and TEVA]

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CME accreditation / Certificates

The quality of continuing education will be rated by the CME system of the European Accreditation Council for Continuing Medical Education, Institution of the UEMS. European Accreditation is granted by the EACCME in order to allow participants to validate the credits obtained at the ENS in their home European country. EACCME credits are recognised by the American Medical Association towards the Physicians’ Recognition Award (PRA). To convert EACCME credit to AMA PRA category 1 credit, contact AMA (www.ama-assn.org).

Rating of the ENS Meeting:
6 points/day, 3 points/half-day

The accreditation is valid for the teaching courses and the main congress programme only and does not cover the company-sponsored symposia.

To claim your CME credits, please fill in the online evaluation form at the congress website www.congrex.ch/ens2012 after the meeting. In order to do so, please use your personal access code, which is given to you on a voucher with your badge. After completing the questionnaire you can print the certificate indicating the CME credits.

Certificates will be available from Monday afternoon onwards at the Pre-Registration desks. Changes of certificates due to incorrect submission of names and/or address will be charged €10.–
The European Neurological Society

Neurology: Learning, knowledge, progress and the future

The Society
The European Neurological Society (ENS) was founded in 1986, based on the initiative of Gérard Said, Anita Harding and P.K. Thomas. The ENS represents an effort to break away from a national representation to a membership on an individual basis. This emphasis on individuality underlines the importance of expertise in the various fields of neurology, as well as the singular expression of enthusiasm for clinical and experimental neurology. The ENS has now become the most prominent society for neurologists on the European Continent, and its members excel in the practice and teaching of neurology, including research in which neuroscience plays an important role. The official scientific journal of the ENS is the Journal of Neurology, one of the leading publications in this medical discipline.

The role of the ENS
An academic organisation such as the ENS provides the platform from which clinical and experimental neurologists of various subspecialties can interact and exchange their knowledge and expertise. The society aspires to guide neurologists in their decision-making in order to attain the best possible care for patients with neurological disorders.

The aims of the society are
• to provide continuing education in all fields of neurology
• to create a scientific forum for the presentation of original research work for all neurologists
• to guarantee a high level of scientific standard
• to support the younger generation by continuing promotions such as travel grants, fellowship stipends and the Neurologist in Training Offer

What are the benefits of ENS membership?
• ENS members receive an official certificate of membership
• ENS members receive the Journal of Neurology
• ENS members are put on the mailing list of the ENS Electronic Newsletter which is published monthly
• ENS members receive full information about ENS events
• ENS members are entitled to participate in ENS congresses at registration fee for members (considerable reduction)
• The ENS and the American Academy of Neurology (AAN) have joined forces to offer a joint membership discount of 25% on the membership dues.

ENS Subcommittees
The ENS Executive Committee has set up a series of subcommittees in order to increase involvement of ENS members in policy decisions representative of the diversity within the neurological field. The subcommittees aim to promote and advance the continuing education within their neurological specialities. Each ENS member can join an ENS subcommittee to actively play a part in contributing to the scientific programmes of the ENS annual meetings and to promote the growth and excellence of the subspecialty. The subcommittees serve as a place to exchange ideas and to network, an immensely important point with the increasing globalisation of the world.
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Ideas and suggestions for the scientific programme for ENS 2014 will be collected during the subcommittee meetings in Prague.

We are looking forward to seeing you at one of the meetings!

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ENS Fellowship Stipends 2013

Fellowship terms

The European Neurological Society will support the scholarship holder for a period of 3 or 6 months. The monthly stipend amounts to € 2000.–. The scholarship is to be held in a host institution in Europe in the year 2013. ENS sponsors this programme to provide an opportunity to participate in an exchange. It is aimed primarily at young neurologists contributing actively at ENS Meetings.

Eligibility

Applicants must be less than 40 years of age and affiliated to an academic neurological department. Applicants and/or home or host institution must be active at ENS meetings. The ENS invites applicants from European nationals as well as those outside Europe.

Application

The following documents are required:

• a project description according to the format described in the application form;
• a letter of acceptance from the host institution (chairperson or senior staff under whose supervision the fellowship will be carried out);
• the applicant’s curriculum vitae, including publications;
• a list of scientific papers presented at ENS meetings by the applicant and/or originating or host institution.
• copy of valid passport.

Application forms

Application forms can be obtained online at www.ensinfo.org

An original and 5 copies of each application must be sent to:
Prof. Heinz Reichmann
European Neurological Society
Peter Merian-Strasse 80
4002 Basel / Switzerland

Submission deadline:
18 October 2012
### Saturday, 9 June 2012

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<th>Room F</th>
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<td>Interactive Case Presentation 3: How to interpret UBO</td>
<td>Workshop 1: Compensation and rehabilitation in chronic stroke subjects</td>
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12:00 – 16:00 Exhibition opening hours, 2nd Floor
### Sunday, 10 June 2012

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- **Teaching Course 9**
  - Rare but deadly infectious diseases of the nervous system
- **Teaching Course 10**
  - ALS diagnosis and care

**Teaching Course 7**
- Headache diagnosis: from clinical history to neuro-imaging

**Teaching Course 11**
- Neuro-imaging correlates of neuropsychological impairment

**Teaching Course 8**
- Genetic disorders mimicking common acquired diseases

**Teaching Course 9**
- Rare but deadly infectious diseases of the nervous system

09:30 – 10:00 Coffee Break

TC continuation

**Teaching Course 10**
- ALS diagnosis and care

11:30 – 12:30 Lunch Break

**Poster Session 1**

12:00 – 13:00

**EAYNT Session**

p. 32

13:45 – 15:15

**Oral Session 2**
- Epilepsy I

**Oral Session 3**
- Movement disorders I

**Oral Session 4**
- Neuro-ophthalmology

15:45 – 17:15

**Oral Session 6**
- Epilepsy II

**Oral Session 7**
- Movement disorders II

**Oral Session 8**
- Imaging

13:45 – 15:15

14:00

14:30

**Emerging Areas in Neurology Symposium (EAYNT)**

15:00

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09:00 – 16:30 Exhibition opening hours, 2nd Floor
### Monday, 11 June 2012

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10:30 – 16:30 Exhibition opening hours, 2nd Floor
### Monday, 11 June 2012

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10:30 – 16:30 Exhibition opening hours, 2nd Floor
## Tuesday, 12 June 2012

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Get on track, stay on track: patient journeys in MS

A satellite symposium sponsored by Merck Serono

10 June 2012; 17:30–19:00; Forum Hall, Prague Convention Centre

Chairs: David Bates – Royal Victoria Infirmary, Newcastle upon Tyne, UK
Eva Havrdová – Charles University, Prague, Czech Republic

17:30
Introduction
Eva Havrdová

17:35
An early start for treatment success
Mark S Freedman

17:55
Involving patients in treatment choice
Discussion led by David Bates & Nathalie Blanc

18:05
Understanding the long-term benefits of IFN-β treatment
Heinz Wiendl

18:20
Patients’ perceptions of treatment success
Discussion led by Eva Havrdová & Nathalie Blanc

18:30
Staying the course: understanding and meeting patients’ needs
Andrew Chan

18:45
Discussion

18:55
Summary and close
David Bates
Scientific Programme

Saturday, 9 June 2012

09:00 – 10:30
Room B
Interactive Case Presentations
1 Pitfalls in clinical examination
C. Bassetti (Berne/Lugano, CH)

Room C
2 Adult ataxia
M. Synofzik (Tübingen, DE)

Room D
3 How to interpret UBO
M. Filippi, J. Ferro (Milan, IT; Lisbon, PT)

09:00 – 10:30
Room E
Workshop
Compensation and rehabilitation in chronic stroke subjects
Chairperson: V. Dietz (Zurich, CH)
4 Compensatory mechanisms after stroke: compensation good or bad?
A. Luft (Zurich, CH)
5 Assessment and treatment of swallowing disorders in subjects after stroke
G. Ickenstein (Aue, DE)

This workshop is based on the input of the ENS Subcommittee Neurorehabilitation (Chair: V. Dietz (Zurich, CH))

10:40 – 12:10
Room A
Workshop
Update in diagnosis and treatment of dementia
Chairperson: S. Madureira (Lisbon, PT)
6 Neuropsychological aspects
S. Madureira (Lisbon, PT)
7 Treatment of neurodegenerative dementia disorders
G. Waldemar (Copenhagen, DK)

This workshop is based on the input of the ENS Subcommittee Behavioural and Cognitive Neurology & Dementia (Chair: D. Galimberti (Milan, IT))
Scientific Programme  
Saturday, 9 June 2012

10:40 – 12:10  
Room B

**Workshop**  
**Headache in everyday practice**  
Chairperson: J.M. Lainez (Valencia, ES)

8  
**Medication overuse in headache: detoxification protocols**  
J.M. Lainez (Valencia, ES)

9  
**Which examination in headache?**  
M. Obermann (Düsseldorf, DE)

10:40 – 12:10  
Room C

**Workshop**  
**How to use the new diagnostic criteria in MS?**  
Chairperson: E. Havrdova (Prague, CZ)

10  
**Consequences of new diagnostic criteria**  
E. Havrdova (Prague, CZ)

11  
**How will new diagnostic criteria change our diagnostic process in MS**  
X. Montalban (Barcelona, ES)

10:40 – 12:10  
Room D

**Workshop**  
**Tremor: an update**  
Chairperson: G. Deuschl (Kiel, DE)

12  
**Update on diagnosis and pathophysiology**  
G. Deuschl (Kiel, DE)

13  
**Update on management of tremor**  
J. Ferreira (Lisbon, PT)

This workshop is based on the input of the ENS Subcommittee Movement Disorders (Chair: K. Bhatia (London, UK))

10:40 – 12:10  
Room E

**Workshop**  
**The approach to a patient with exercise intolerance or fatigue**  
Chairperson: A. Toscano (Messina, IT)

14  
**Metabolic myopathies: an update on new phenotypes**  
A. Toscano (Messina, IT)

15  
**Diagnostic features in exercise intolerance**  
Z. Argov (Jerusalem, IL)

This workshop is based on the input of the ENS Subcommittee Muscle and Neuromuscular Junction Disorders (Chair: C. Angelini (Padova, IT))
Workshop
Infectious myelopathies
Chairperson: J. Sellner (München, DE)

16 Infectious and para-infectious myelopathies
J. Sellner (Munich, DE)

17 Tropical myelopathies
E. Schmutzhard (Innsbruck, AT)

18 Extramedullary spinal cord infections
B. Pfausler (Innsbruck, AT)

This workshop is based on the input of the ENS Subcommittee Infectious Disorders of the Nervous System (Chair: E. Schmutzhard (Innsbruck, AT))

Integrating Experience and Innovation
Chairperson: L. Kappos (Basel, CH)

Welcome and introduction
L. Kappos (Basel, CH)

12:20 Glatiramer Acetate Therapy: New Considerations
T. Ziemssen (Dresden, DE)

12:40 Laquinimod: a potential novel oral therapeutic approach for relapsing MS patients
G. Comi (Milan, IT)

12:55 Experimental insights on mechanism of action and relevance for MS pathology
C. Stadelmann-Nessler (Göttingen, DE)

Discussion & closure

Satellite symposium organised by

Lunch bags will be provided
Scientific Programme

Saturday, 9 June 2012

13:30 – 17:00
Room A

Teaching course
Emergencies in movement disorders
Chairpersons: K. Bhatia (London, UK)
I. Rektor (Brno, CZ)

13:30 19
Drug-induced movement disorders
I. Rektor (Brno, CZ)

14:15 20
Acute movement disorders (including anti-NMDA encephalitis and the like)
K. Bhatia (London, UK)

15:00
Coffee break

15:30 21
Iatrogenic disorders in Parkinson’s disease
J. Massano (Porto, PT)

16:15 22
Toxic-related movement disorders
P. Taba (Tartu, EE)

This teaching course is based on the input of the ENS Subcommittee Movement Disorders
(Chair: K. Bhatia (London, UK))

13:30 – 17:00
Room B

Teaching course
Epilepsy
Chairpersons: P. Boon (Ghent, BE)
M. Seeck (Geneva, CH)

13:30 23
First seizure management
E. Beghi (Milan, IT)

14:15 24
Pharmacotherapy of epilepsy
M. Seeck (Geneva, CH)

15:00
Coffee break

15:30 25
Management of the difficult patient
P. Boon (Ghent, BE)

16:15 26
Management of the elderly patient with seizures
H. Stefan (Erlangen, DE)
### Scientific Programme

**Saturday, 9 June 2012**

#### Teaching course

**Management of acute ischaemic stroke**  
Chairpersons: F. Fazekas (Graz, AT)  
M. Endres (Berlin, DE)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
</table>
| 13:30 | **Imaging**  
F. Fazekas (Graz, AT)                                                                            |
| 14:15 | **Neuro-intervention**  
H. Mattle (Berne, CH)                                                                         |
| 15:00 | **Coffee break**                                                                            |
| 15:30 | **Hemicraniectomy, hypothermia and experimental therapies**  
L.J. Kappelle (Utrecht, NL)                                                                    |
| 16:15 | **Anticoagulation and antiplatelet treatment**  
M. Endres (Berlin, DE)                                                                          |

*This teaching course is based on the input of the ENS Subcommittee Cerebrovascular Disorders (Chair: F. Fazekas (Graz, AT))*

#### Teaching course

**Focal neuropathies**  
Chairpersons: M. Donaghy (Oxford, UK)  
P.J. Dyck (Rochester, UK)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
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</table>
| 13:30 | **Focal neuropathy – traps for the unwary**  
M. Donaghy (Oxford, UK)                                                                          |
| 14:15 | **Proximal nerve disorders: imaging and biopsy**  
P.J. Dyck (Rochester, UK)                                          |
| 15:00 | **Coffee break**                                                                            |
| 15:30 | **Focal vasculitic neuropathies**  
A. Steinbrecher (Erfurt, DE)                                                                       |
| 16:15 | **Focal and multifocal diabetic neuropathies**  
G. Said (Paris, FR)                                                                             |

*This teaching course is based on the input of the ENS Subcommittee Peripheral Neuropathy (Chair: C. Sommer (Würzburg, DE))*
13:30 – 17:00
Room E

**Teaching course**

**Management of MS**

Chairpersons: A. Siva (Istanbul, TR)  
G. Comi (Milan, IT)

13:30 35  
**When and how to treat attacks?**  
A. Siva (Istanbul, TR)

14:15 36  
**Symptomatic treatment**  
O. Fernández y Fernández (Malaga, ES)

15:00

15:30 37  
**New strategies in neurorehabilitation**  
A. Thompson (London, UK)

16:15 38  
**Disease modifying treatments and the issue of responders versus non-responders**  
G. Comi (Milan, IT)

*This teaching course is based on the input of the ENS Subcommittee Multiple Sclerosis / Demyelinative Diseases of CNS (Chair: G. Comi (Milan, IT))*

---

13:30 – 17:00
Room F

**Teaching course**

**Ethical and legal issues in end-of-life in acute and chronic disorders of consciousness**

Chairpersons: S. Laureys (Liège, BE); J.L. Bernat (Lebanon, US)

13:30 39  
**Ethics of end-of-life in neurology**  
J.L. Bernat (Lebanon, US)

14:15 40  
**Substitute decision-making in neurology: ethico-legal discourses in Europe**  
R. Jox (Munich, DE)

15:00

15:30 41  
**Legal positions on letting-die in the vegetative state: an update**  
R. Elefante (Aulla, IT)

16:15 42  
**European differences on end-of-life attitudes in disorders of consciousness: the ENS survey**  
S. Laureys (Liège, BE)

*This teaching course is based on the input of the ENS Subcommittee Coma and Chronic Disorders of Consciousness (Chair: S. Laureys (Liège, BE))*
SSIF Award ceremony

17:30 – 19:00
Plenary Hall

Presidential Symposium
Parkinson Syndrome: an everlasting challenge
Chairpersons: H. Reichmann (Dresden, DE)
E. Ruzicka (Prague, CZ)

Aetiopathogenesis and aetiology in Parkinson’s disease
A. Schapira (London, UK)

Does early diagnosis lead to early treatment of Parkinson’s disease?
H. Reichmann (Dresden, DE)

Treatment of motor complications
W. Poewe (Innsbruck, AT)

Treatment of non-motor symptoms
P. Barone (Naples, IT)

Welcome Reception
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 08:00 - 17:15 | **Teaching course**  
| Room A | **Current treatments in neurology (full day course)**  
|        | Chairpersons: L. Kappos (Basel, CH)                                  |
|        | H. Reichmann (Dresden, DE)                                           |
| 08:00  | **Motor neuron disease: do we have a therapy?**  
|        | V. Silani (Milan, IT)                                                |
| 08:45  | **Dementias**  
|        | H. Reichmann (Dresden, DE)                                           |
| 09:30  | **Coffee break**                                                     |
| 10:00  | **Multiple sclerosis**  
|        | L. Kappos (Basel, CH)                                                |
| 10:45  | **Acute stroke**  
|        | J. Ferro (Lisbon, PT)                                                |
| 11:30  | **Lunch break**                                                      |
| 13:45  | **Disorders of equilibrium**                                         
|        | M. Strupp (Munich, DE)                                               |
| 14:30  | **Treatment of refractory focal onset epilepsy**  
|        | E. Ben-Menachem (Gothenburg, SE)                                     |
| 15:15  | **Coffee break**                                                     |
| 15:45  | **Parkinson and related syndromes**  
|        | W.H. Oertel (Marburg, DE)                                            |
| 16:30  | **Multidisciplinary management of migraine and tension-type headache**  
|        | J. Schoenen (Liège, BE)                                              |
## Scientific Programme

**Sunday, 10 June 2012**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</thead>
<tbody>
<tr>
<td>08:00</td>
<td>Teaching course</td>
</tr>
<tr>
<td></td>
<td><strong>Headache diagnosis: from clinical history to neuro-imaging</strong></td>
</tr>
<tr>
<td></td>
<td>Chairpersons: J. Schoenen (Liège, BE)</td>
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<tr>
<td></td>
<td>J. Pascual (Oviedo, ES)</td>
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<tr>
<td>08:00</td>
<td>Migraine patient: history taking and differential diagnosis</td>
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<tr>
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<td>J. Pascual (Oviedo, ES)</td>
</tr>
<tr>
<td>08:45</td>
<td>Cluster headache patient: history taking and differential diagnosis</td>
</tr>
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<td>F. Antonaci (Pavia, IT)</td>
</tr>
<tr>
<td>09:30</td>
<td>Coffee break</td>
</tr>
<tr>
<td>10:00</td>
<td>A symptomatic headache patient: history taking and differential diagnosis</td>
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<td>A. Erdemoglu (Ankara, TR)</td>
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<tr>
<td>10:45</td>
<td>Neuro-imaging in headaches: for whom and when?</td>
</tr>
<tr>
<td></td>
<td>J. Schoenen (Liège, BE)</td>
</tr>
</tbody>
</table>

*This teaching course is based on the input of the ENS Subcommittee Headache (Chair: F. Antonaci (Pavia, IT))*
### Scientific Programme

#### Sunday, 10 June 2012

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:00 – 11:30</td>
<td><strong>Teaching course</strong>&lt;br&gt;<strong>Neuro-imaging correlates of neuropsychological impairment</strong>&lt;br&gt;Chairpersons: M. Filippi (Milan, IT)&lt;br&gt; J. DeLuca (Newark, US)</td>
</tr>
<tr>
<td>08:00</td>
<td><strong>Multiple sclerosis</strong>&lt;br&gt;J. DeLuca (Newark, US)</td>
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<tr>
<td>08:45</td>
<td><strong>Dementia</strong>&lt;br&gt;M. Filippi (Milan, IT)</td>
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<tr>
<td>09:30</td>
<td><strong>Coffee break</strong></td>
</tr>
<tr>
<td>10:00</td>
<td><strong>Movement disorders</strong>&lt;br&gt;A. Ludolph (Ulm, DE)</td>
</tr>
<tr>
<td>10:45</td>
<td><strong>Brain-behavior correlations after focal lesions of the right hemisphere</strong>&lt;br&gt;P. Bartolomeo (Paris, FR)</td>
</tr>
<tr>
<td>08:00 – 11:30</td>
<td><strong>Teaching course</strong>&lt;br&gt;<strong>Rare but deadly infectious diseases of the nervous system</strong>&lt;br&gt;Chairpersons: E. Schmutzhard (Innsbruck, AT)&lt;br&gt; D. van de Beek (Amsterdam, NL)</td>
</tr>
<tr>
<td>08:00</td>
<td><strong>Cerebral malaria</strong>&lt;br&gt;E. Schmutzhard (Innsbruck, AT)</td>
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<tr>
<td>08:45</td>
<td><strong>Rare neurological emergency: tetanus and botulism</strong>&lt;br&gt;D. van de Beek (Amsterdam, NL)</td>
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<tr>
<td>09:30</td>
<td><strong>Coffee break</strong></td>
</tr>
<tr>
<td>10:00</td>
<td><strong>CNS-tuberculosis</strong>&lt;br&gt;J.C. Garcia-Monco (Galdacano, ES)</td>
</tr>
<tr>
<td>10:45</td>
<td><strong>Rabies</strong>&lt;br&gt;B. Pfausler (Innsbruck, AT)</td>
</tr>
</tbody>
</table>

*This teaching course is based on the input of the ENS Subcommittee Infectious Disorders of the Nervous System (Chair: E. Schmutzhard (Innsbruck, AT))**
Scientific Programme

Sunday, 10 June 2012

08:00 – 11:30
Room E

Teaching course
ALS diagnosis and care
Chairpersons: O. Hardiman (Dublin, IE)
L.H. van den Berg (Utrecht, NL)

08:00
ALS diagnosis and misdiagnosis
O. Hardiman (Dublin, IE)

08:45
Genetic testing in ALS
L.H. van den Berg (Utrecht, NL)

09:30
Coffee break

10:00
Cognition in ALS
V. Silani (Milan, IT)

10:45
Palliative care in ALS
R. Jox (Munich, DE)

This teaching course is based on the input of the ENS Subcommittee Motor Neuron Disease (Chair: V. Silani (Milan, IT))

08:00 – 11:30
Room F

Teaching course
Genetic disorders mimicking common acquired diseases
Chairpersons: O. Boespflug-Tanguy (Paris, FR)
V. Kostic (Belgrade, RS)

08:00
Genetic disorders mimicking multiple sclerosis and acquired leucoencephalopathies
O. Boespflug-Tanguy, P. Labauge (Paris, Montpellier, FR)

08:45
Genetics disorders mimicking idiopathic Parkinson’s disease
V. Kostic (Belgrade, RS)

09:30
Coffee break

10:00
Genetic disorders mimicking sporadic forms of Alzheimer’s disease and other degenerative dementias
F. Tagliavini (Milan, IT)

10:45
Genetic disorders mimicking sporadic ALS
E. Bertini (Rome, IT)

This teaching course is based on the input of the ENS Subcommittee Clinical Neurogenetics (Chair: D. Pareyson (Milan, IT))
Poster Session 1
(see pages 75 – 87)

Posters will be on display from 8:00 to 16:00
Authors should remain by their posters from **11:30 to 12:30**
During this time moderated poster walks will take place commencing at the first poster in each of the following topics:

Multiple sclerosis:
disease modifying treatment I  P336 – P360
Cerebrovascular disorders I  P361 – P380
Neuro-imaging  P381 – P406
Movement disorders  P407 – P424
General neurology I  P425 – P451
Preclinical biology  P452 – P456

Committed to neurology – advancing treatment of neurodegenerative conditions: ALS and MS
Chairperson: D. Horakova (Prague, CZ)

Welcome and introduction
D. Horakova (Prague, CZ)

Recent advances in ALS: early diagnosis  
A. Ludolph (Ulm, DE)

Urgency to control MS progression: the right drug, for the right patient at the right time  
P. Vermersch (Lille, FR)

Targeting the demyelinated Axons in MS: treating walking impairment  
V. Limmroth (Cologne, DE)

Q & A and closing remarks
D. Horakova (Prague, CZ)

**Satellite symposium organised by biogen idec**
12:00 – 13:30
Room A

12:00
81
**Many dimensions of Parkinson’s Disease: beyond the motor symptoms**
Chairperson: E. Ruzicka (Prague, CZ)

12:20
82
**Non Motor Symptoms in Parkinson’s Disease**
P. Valkovic (Bratislava, SK)

12:40
83
**Parkinson-Plus Disorders/Atypical Parkinsonian disorders**
W. Meissner (Bordeaux, FR)

13:00
84
**Palliative Care for Parkinson’s Disease patients**
S. Lorenzl (Munich, DE)

13:20
85
**Sleep and Fatigue in Parkinson’s Disease**
P. Worth (Norwich, UK)

Discussion

All

*Satellite symposium organised by*

12:00 – 13:30
Room B

12:00
86
**The case of Niemann-Pick type C (NP-C): from suspicion to evidence-based therapy**
Chairperson: F. Sedel (Paris, FR)

12:05
85
**Welcome and introduction**
F. Sedel (Paris, FR)

12:25
86
**Identifying the suspects of NP-C**
A. Burlina (Bassano del Grappa, IT)

12:45
87
**Differential diagnosis: compiling the evidence for NP-C**
C.M. Lourenço (Ribeirão Preto, BR)

13:05
88
**Preventing progression of NP-C: the effect of miglustat on the pathophysiological correlate of NP-C**
L.A. Abel (Melbourne, AU)

13:25
88
**Evaluating treatment success: clinical biochemical markers to monitor NP-C**
F. Sedel (Paris, FR)

Discussion and conclusions

F. Sedel (Paris, FR)

Close

*Satellite symposium organised by*
### Scientific Programme

#### Sunday, 10 June 2012

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>12:00 – 13:00</td>
<td>EAYNT session</td>
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<tr>
<td></td>
<td><strong>Clinical neurology in transition</strong></td>
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<tr>
<td></td>
<td>Chairpersons: E.T. Varga (Dianalund, DK)</td>
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<td>K. Roná-Vörös (Szeged, HU)</td>
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<tr>
<td>12:00</td>
<td>Make the best of technology – how IT/gadgets have improved clinical practice</td>
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<td>H. Cock (London, UK)</td>
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<tr>
<td>12:20</td>
<td>Seeing the disease in the person or seeing the person with the disease</td>
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<td>A. Siva (Istanbul, TR)</td>
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<tr>
<td>12:40</td>
<td>Neurophysiology training in Europe – different concepts and training programmes</td>
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<td>E.T. Varga (Dianalund, DK)</td>
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<tr>
<td>13:45 – 17:15</td>
<td>Teaching course</td>
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<tr>
<td></td>
<td><strong>Challenges in neuro-oncology</strong></td>
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<td>Chairpersons: R. Soffietti (Turin, IT)</td>
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<td></td>
<td>M. Weller (Zurich, CH)</td>
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<tr>
<td>13:45</td>
<td>How to use molecular markers to predict prognosis and response to treatments</td>
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<td>M. Weller (Zurich, CH)</td>
</tr>
<tr>
<td>14:30</td>
<td>Antiangiogenic drugs: benefits and risks</td>
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<td>W. Wick (Heidelberg, DE)</td>
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<tr>
<td>15:15</td>
<td>Coffee break</td>
</tr>
<tr>
<td>15:45</td>
<td>Diagnosis and treatment of nonglial tumours</td>
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<td></td>
<td>R. Soffietti (Turin, IT)</td>
</tr>
<tr>
<td>16:30</td>
<td>New developments in pathophysiology and diagnosis of paraneoplastic diseases</td>
</tr>
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<td>J. Honnorat (Lyon, FR)</td>
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</tbody>
</table>

*This teaching course is based on the input of the ENS Subcommittee Neuro-Oncology (Chair: R. Soffietti (Turin, IT))
Oral Sessions 1 – 8
(see pages 50 – 57)

Session 1 – MS Imaging/Neurophysiology
Session 2 – Epilepsy I
Session 3 – Movement disorders I
Session 4 – Neuro-ophthalmology

Session 5 – Multiple sclerosis II
Session 6 – Epilepsy II
Session 7 – Movement disorders II
Session 8 – Imaging

Get on track, stay on track: patient journeys in MS
Chairpersons: D. Bates (Newcastle upon Tyne, UK)
E. Havrdová (Prague, CZ)
Patient advocate: N. Blanc (Geneva, CH)

Introduction
E. Havrdová (Prague, CZ)

An early start for treatment success
M.S. Frédé (Ottawa, CA)

Discussion: involving patients in treatment choice
Led by D. Bates and N. Blanc

Understanding the long-term benefits of IFN-β treatment
H. Wiendl (Würzburg, DE)

Discussion: patients’ perceptions of treatment success
Led by E. Havrdová and N. Blanc

Staying the course: understanding and meeting patients’ needs
A. Chan (Bochum, DE)

Discussion
All

Summary
D. Bates (Newcastle upon Tyne, UK)

Satellite symposium organised by MerckSerono
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Code</th>
<th>Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>17:30</td>
<td>100</td>
<td>Acoustic analysis of speech progression in Parkinson’s disease</td>
<td>J. Rusz (Prague, CZ)</td>
</tr>
<tr>
<td>17:45</td>
<td>101</td>
<td>Evaluation of hypokinetic dysarthria in Parkinson’s disease and effects of repetitive transcranial magnetic stimulation and dopaminergic treatment by means of voice signal analysis and fMRI</td>
<td>I. Rektorova (Brno, CZ)</td>
</tr>
<tr>
<td>18:00</td>
<td>102</td>
<td>Video-oculography in the Movement Disorders Clinic</td>
<td>C. Bonnet (Paris, FR, Prague, CZ)</td>
</tr>
<tr>
<td>18:15</td>
<td>103</td>
<td>Video as a tool for quantitative analysis of tremor and bradykinesia</td>
<td>E. Ruzicka (Prague, CZ)</td>
</tr>
<tr>
<td>18:30</td>
<td>104</td>
<td>Beware of YouTube: movement disorders on internet</td>
<td>K. Bhatia (London, UK)</td>
</tr>
<tr>
<td>18:45</td>
<td></td>
<td>Discussion</td>
<td></td>
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</tbody>
</table>
07:30 – 09:00
Room E

Practical session
Nerve conduction studies

Nerve conduction studies
R. Dengler (Hannover, DE)

09:00 – 11:00
Forum Hall

Symposium
Stem cells ready for clinical practice
Chairperson: G. Martino (Milan, IT)

106 Somatic cell reprogramming into dopaminergic neurons for Parkinson’s disease therapy
V. Broccoli (Milan, IT)

107 Stem cells in multiple sclerosis: where we are and where we go
G. Martino (Milan, IT)

108 Stem cell gene therapy in adrenoleukodystrophy
P. Aubourg (Paris, FR)

109 Neural stem cells in ischaemic stroke: from bench-to-bedside
K. Muir (Glasgow, UK)

09:00 – 11:00
Room A

Symposium
Neuro-imaging and early diagnosis of neurological diseases
Chairperson: M. Filippi (Milan, IT)

110 Multiple sclerosis
M. Filippi (Milan, IT)

111 Alzheimer’s disease and associated conditions
O. Colliot (Paris, FR)

112 Stroke
F. Fazekas (Graz, AT)

113 Parkinson’s disease and parkinsonisms
D.J. Brooks (London, UK)
Scientific Programme

Monday, 11 June 2012

Oral Sessions 9 – 21
(see pages 58 – 69)

09:30 – 11:00
Room B
Room C
Room D

13:30 – 15:00
Forum Hall
Room A
Room B
Room C
Room F

15:30 – 17:00
Forum Hall
Room A
Room B
Room C
Room F

Workshop
Fitness to drive in neurological disorders
Chairperson: J. Mathis (Berne, CH)

Safe driving in patients with excessive daytime sleepiness
J. Mathis (Berne, CH)

Driving in the elderly
K. Johansson (Stockholm, SE)

Workshop
Advances in neuropathic pain treatments
Chairperson: C. Sommer (Würzburg, DE)

Evidence-based conventional treatments for neuropathic pain
C. Sommer (Würzburg, DE)

Evidence-based unusual treatments for neuropathic pain
P. Schestatsky (Porto Alegre, BR)

This workshop is based on the input of the ENS Subcommittee Pain
(Chair: P. Schestatsky (Porto Alegre, BR)
**Poster Session 2**
(see pages 88 – 100)

Posters will be on display from 9:00 to 13:00
Authors should remain by their posters from **11:30 to 12:30**
During this time moderated poster walks will take place **commencing at the first poster** in each of the following topics:

Multiple sclerosis:
disease modifying treatment II P457 – P482
Cerebrovascular disorders II P483 – P498
Peripheral neuropathy P499 – P524
Dementia I P525 – P541
Motor neuron disease P542 – P555
General neurology II P556 – P570
Child neurology P571 – P578

**Growing clinical experience with oral fingolimod in MS**
Chairperson: L. Kappos (Basel, CH)

**Welcome and introduction**
L. Kappos (Basel, CH)

11:45

11:50

**Clinical efficacy and safety of fingolimod in MS: Growing experience**
F. Sellebjerg (Copenhagen, DK)

12:10

**Treating MS patients with fingolimod: implementation in practice**
R. Gold (Bochum, DE)

12:30

**Panel discussion: Sharing case-based experience with fingolimod**
Facilitator: L. Kappos (Basel, CH)
Panel: F. Sellebjerg (Copenhagen, DK)
R. Gold (Bochum, DE)
W. Haverkamp (Berlin, DE)
M.S. Freedman (Ottawa, CA)

13:00

**Oral fingolimod in the treatment regimen for MS**
M.S. Freedman (Ottawa, CA)

13:10

**Summary and conclusion**
L. Kappos (Basel, CH)

*Satellite symposium organised by Novartis*
Scientific Programme

Monday, 11 June 2012

11:45 – 13:20
Room A

What neuromyelitis optica is telling us about multiple sclerosis
Chairperson: G. Comi (Milan, IT)

SSIF opening
G. Gomi (Milan, IT)

Welcome and introduction
G. Gomi (Milan, IT)

L1 Neuropathology
H. Lassmann (Vienna, AT)

L2 Pathogenesis
A. Vincent (Oxford, UK)

L3 Clinic
H.P. Hartung (Dusseldorf, DE)

Concluding remarks
G. Gomi (Milan, IT)

End of Symposium

Satellite symposium organised by

12:15 – 13:15
Room C

Special session ENS – EAYNT
Translational neurology – emerging career prospects for junior neurologists
Chairpersons: C. Bassetti (Berne/Lugano, CH) G. Stoll (Würzburg, DE)

Sleep disorders
C. Bassetti (Berne/Lugano, CH)

Autonomic nervous system
W. Struhal (Linz, AT)

Cerebrovascular disorders
G. Stoll (Würzburg, DE)

CNS infections
J. Sellner (Munich, DE)
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>13:30</td>
<td><strong>Teaching course</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Frontotemporal lobar degeneration syndromes</strong></td>
</tr>
<tr>
<td></td>
<td>Chairpersons: D. Galimberti (Milan, IT)</td>
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<tr>
<td></td>
<td>S. Papageorgiou (Athens, GR)</td>
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<tr>
<td>13:30</td>
<td>Neuropathological diagnostic criteria and revised terminology</td>
</tr>
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<td>M. Neumann (Zurich, CH)</td>
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<tr>
<td>14:15</td>
<td>Imaging biomarkers for diagnosis and understanding disease pathophysiology</td>
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<td>M. Filippi (Milan, IT)</td>
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<tr>
<td>15:00</td>
<td>Coffee break</td>
</tr>
<tr>
<td>15:30</td>
<td>Molecular pathogenic mechanisms and biomarkers</td>
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<td></td>
<td>D. Galimberti (Milan, IT)</td>
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<tr>
<td>16:15</td>
<td>Clinical case discussion</td>
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<td>S. Papageorgiou (Athens, GR)</td>
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</tbody>
</table>

*This teaching course is based on the input of the ENS Subcommittee Behavioural and Cognitive Neurology and Dementia (Chair: D. Galimberti (Milan, IT))*

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>13:30</td>
<td><strong>Teaching course</strong></td>
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<td></td>
<td><strong>Non-pharmacological treatments in neurology</strong></td>
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<tr>
<td></td>
<td>Chairpersons: C. Gerloff (Hamburg, DE)</td>
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<td>P. Limousin (London, UK)</td>
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<tr>
<td>13:30</td>
<td>Cortical brain stimulation in stroke</td>
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<td>C. Gerloff (Hamburg, DE)</td>
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<tr>
<td>14:15</td>
<td>Deep brain stimulation in movement disorders</td>
</tr>
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<td>P. Limousin (London, UK)</td>
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<tr>
<td>15:00</td>
<td>Coffee break</td>
</tr>
<tr>
<td>15:30</td>
<td>Neurostimulation in chronic headache</td>
</tr>
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<td></td>
<td>M. Leone (Milan, IT)</td>
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<tr>
<td>16:15</td>
<td>Hypothermia and craniectomy in traumatic brain injury and stroke</td>
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<td>S. Schwab (Erlangen, DE)</td>
</tr>
</tbody>
</table>

*This teaching course is based on the input of the ENS Subcommittee General Neurology (Chair: J. Schoenen (Liège, BE))

**Monday, 11 June 2012**
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
</tr>
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<tbody>
<tr>
<td>17:15 – 18:45</td>
<td><strong>Practical session</strong></td>
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<tr>
<td></td>
<td><strong>Conventional EMG</strong></td>
<td>C. Krarup (Copenhagen, DK)</td>
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<td><em>supported by</em> CareFusion Nicolet*</td>
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</tr>
<tr>
<td>17:30 – 19:00</td>
<td><strong>Addressing unmet needs in rare diseases and multiple sclerosis – diagnostic challenges and novel treatment strategies</strong></td>
<td></td>
</tr>
<tr>
<td>17:30</td>
<td><strong>Symposium introduction</strong></td>
<td>E. Havrdova (Prague, CZ)</td>
</tr>
<tr>
<td>17:35</td>
<td><strong>Rare disease mystery case: persistent pauci-symptomatic HyperCK and Limb Girdle muscle weakness</strong></td>
<td>A. Toscano (Messina, IT)</td>
</tr>
<tr>
<td>17:45</td>
<td><strong>Clinical review of treatment benefits</strong></td>
<td>B. Schoser (Munich, DE)</td>
</tr>
<tr>
<td>17:55</td>
<td><strong>Questions and answers</strong></td>
<td></td>
</tr>
<tr>
<td>18:00</td>
<td><strong>Rare disease mystery case: pain in the hands and easily fatigued when playing sports</strong></td>
<td>A. Burlina (Bassano, IT)</td>
</tr>
<tr>
<td>18:15</td>
<td><strong>What could be the next oral treatment option for RMS?</strong></td>
<td>P. Vermersch (Lille, FR)</td>
</tr>
<tr>
<td>18:35</td>
<td><strong>Any potential to change the treatment paradigm for patients with RRMS?</strong></td>
<td>S. Soelberg-Sorensen (Copenhagen, DK)</td>
</tr>
<tr>
<td>18:55</td>
<td><strong>Closing remarks</strong></td>
<td>E. Havrdova (Prague, CZ)</td>
</tr>
</tbody>
</table>

*Satellite symposium organised by Genzyme, a Sanofi company*
**Poster Session 3**
(see pages 101 – 113)

Posters will be on display from 14:00 to 18:30
Authors should remain by their posters from **17:30 to 18:30**
During this time moderated poster walks will take place **commencing at the first poster** in each of the following topics:

- Multiple sclerosis: variants and symptomatic treatment  P579 – P602
- Cerebrovascular disorders III  P603 – P619
- Pain and headache  P620 – P644
- Dementia II  P645 – P661
- Epilepsy  P662 – P671
- Neurogenetics  P678 – P692
- Clinical neurophysiology  P693 – P700

**Banquet**
<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Session</th>
</tr>
</thead>
</table>
| 07:30 – 09:00 | Room E  | Practical session
Single fibre EMG
S. Nandedkar (New York, US) |
| 09:00 – 11:00 | Forum Hall  | Symposium
MS and acquired demyelinating disorders
Chairperson: X. Montalban (Barcelona, ES) |
|          |          | Diagnostic criteria for multiple sclerosis: 2010 revisions to the McDonald criteria
X. Montalban (Barcelona, ES) |
|          |          | The new players in the basic treatment of MS
L. Kappos (Basel, CH) |
|          |          | The new players in the symptomatic treatment of MS
A. Thompson (London, UK) |
|          |          | Update in the pathogenesis, clinical aspects and treatment of NMO
R. Gold (Bochum, DE) |
| 09:00 – 11:00 | Room A  | Symposium
Neurology and sleep-wake disorders
Chairpersons: C. Bassetti (Berne/Lugano, CH)
P. Jennnum (Copenhagen, DK) |
|          |          | Narcolepsy: a disease model of the brain
C. Bassetti (Berne/Lugano, CH) |
|          |          | REM sleep behaviour disorder and parkinsonism
J. Santamaria (Barcelona, ES) |
|          |          | Insomnia/hypersomnia and neurological disorders
P. Jennnum (Copenhagen, DK) |
|          |          | Epilepsy and sleep
P. Jennnum (Copenhagen, DK) |
| 09:30 – 11:00 | Room B C D  | Oral Sessions 22 – 24
(see pages 70 – 72)
Session 22 – Clinical neurophysiology
Session 23 – Dementia
Session 24 – Pain and headache |
**09:30 – 11:00**  
**Room E**

**Workshop**  
**Spinal cord imaging**  
Chairperson: M.A. Rocca (Milan, IT)

151 **Technical issues**  
G.J. Barker (London, UK)

152 **Clinical applications**  
M.A. Rocca (Milan, IT)

*This workshop is based on the input of the ENS Subcommittee Neuro-Imaging (Chair: M. Filippi (Milan, IT))*

**09:30 – 11:00**  
**Room F**

**Workshop**  
**Ultrasound in cerebrovascular disorders**  
Chairperson: D. Skoloudik (Olomouc, CZ)

154 **Extracranial ultrasound**  
E. Bartels (Munich, DE)

155 **Transcranial ultrasound**  
D. Skoloudik (Olomouc, CZ)

*This workshop is based on the input of the ENS Subcommittee Cerebrovascular Disorders (Chair: F. Fazekas (Graz, AT))*

**11:30 – 12:30**

**Poster Session 4**  
(see pages 114 – 124)

Posters will be on display from 09:00 to 13:30  
Authors should remain by their posters from **11:30 to 12:30**  
During this time moderated poster walks will take place **commencing at the first poster** in each of the following topics:

- Multiple sclerosis: miscellaneous  
  P701 – P729
- Cerebrovascular disorders IV  
  P730 – P752
- Muscle disorders  
  P753 – P768
- Neurorehabilitation  
  P769 – P780
- Neuro-oncology  
  P781 – P790
- Infection  
  P791 – P799
- Neuro-ophthalmology  
  P800 – P805
Scientific Programme

Tuesday, 12 June 2012

12:00 – 13:00
Room E

Knowledge exchange programme in neurology between European and Indian clinicians
Chairpersons: R. Patankar (Mumbai, IN)
A. Panagaria (Jaipur, IN)
H. Reichmann (Dresden, DE)
H. Cock (London, UK)

12:00 158

Approach to a dizzy patient
S. Kothari (Pune, IN)
Discussion: H. Reichmann (Dresden, DE)

12:20 160

Causes and treatments of neuroleptic malignant syndrome
R. Balakrishnan (Thrissur, IN)
Discussion: H. Reichmann (Dresden, DE)

12:40 161

Pre-surgical evaluation in a developing country scenario
M. Tripathi (Delhi, IN)
Discussion: H. Cock (London, UK)

11:45 – 13:15
Room F

Practical session
Reflex studies

163

Reflex studies
J. Valls-Solé, E. Papathanasiou (Barcelona, ES; Nicosia, CY)
Scientific Programme

Tuesday, 12 June 2012

13:30 – 17:00  
Forum Hall

13:30  164  
Teaching course  
Differential diagnosis of vertigo and ocular motor disorders  
Chairpersons: M. Dieterich (Munich, DE)  
D. Straumann (Zurich, CH)

14:15  165  
Auxiliary testing in neuro-otology and neuroophthalmology  
D. Straumann (Zurich, CH)

15:00  
Coffee break

15:30  166  
Teaching course  
Differential diagnosis and therapy of eye movement disorders  
C. Helmchen (Lübeck, DE)

16:15  167  
Vertigo and dizziness in the elderly  
A. Bisdorff (Esch sur Alzette, FR)

This teaching course is based on the input of the ENS Subcommittees Neuro-Otology and Neuro-Ophthalmology (Chair: M. Dieterich (Munich, DE))

13:30 – 17:00  
Room A

13:30  168  
Teaching course  
Neurological complications in the intensive care unit  
Chairpersons: C. Krarup (Copenhagen, DK)  
A. Rossetti (Lausanne, CH)

14:15  169  
Non-convulsive status epilepticus  
M. Holtkamp (Berlin, DE)

15:00  
Coffee break

15:30  170  
Disorders of consciousness: from mechanisms to diagnosis  
A. Rossetti (Lausanne, CH)

16:15  171  
Neuropathy  
B. Krarup (Copenhagen, DK)

This teaching course is based on the input of the ENS Subcommittee General Neurology (Chair: J. Schoenen (Liège, BE))
Teaching course
Muscle disorders
Chairpersons: C. Angelini (Padova, IT) M. de Visser (Amsterdam, NL)

13:30 – 17:00
Room B

13:30 172  Muscle disorders with brain involvement
C. Angelini (Padova, IT)

14:15 173  Acquired and congenital myasthenias: a diagnostic approach
S. Apostolski (Belgrade, RS)

15:00

15:30 174  Inflammatory myopathies
M. de Visser (Amsterdam, NL)

16:15 175  Toxic and iatrogenic neuromyopathies
A. Toscano (Messina, IT)

This teaching course is based on the input of the ENS Subcommittees Muscle and Neuromuscular Junction Disorders (Chair: C. Angelini (Padova, IT))

Teaching course
Late-onset neurometabolic disorders
Chairpersons: S. Naidu (Baltimore, US) L. de Meirleir (Brussels, BE)

13:30 – 17:00
Room C

13:30 176  MRI approach to the diagnosis of leukoencephalopathies
S. Naidu (Baltimore, US)

14:15 177  Metabolic screening in epilepsy
L. de Meirleir (Brussels, BE)

15:00

15:30 178  Psychiatric revelations in adult metabolic diseases
L. de Meirleir (Brussels, BE)

16:15 179  Peroxisomal diseases in adulthood
P. Aubourg (Paris, FR)

This teaching course is based on the input of the ENS Subcommittee Child Neurology (Chair: D. Pohl (Ottawa, CA))
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
<th>Chairpersons/Details</th>
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<tbody>
<tr>
<td>13:30</td>
<td><strong>Teaching course</strong></td>
<td>Room D</td>
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<tr>
<td></td>
<td><strong>Functional disorders in neurology</strong></td>
<td></td>
<td>H. Cock (London, UK)</td>
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<td><strong>Chairpersons:</strong></td>
<td></td>
<td>A. Albanese (Milan, IT)</td>
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<td>13:30</td>
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<td></td>
<td><strong>Functional non-epileptic attacks</strong></td>
<td></td>
<td>H. Cock (London, UK)</td>
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<td>14:15</td>
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<td></td>
<td><strong>Psychogenic dystonia and tremor</strong></td>
<td></td>
<td>A. Albanese (Milan, IT)</td>
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<td>15:00</td>
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<td><strong>Coffee break</strong></td>
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<td>15:30</td>
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<td></td>
<td><strong>Mechanistic insights into functional disorders in neurology</strong></td>
<td></td>
<td>R. Blakemore (Geneva, CH)</td>
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<td>16:15</td>
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<td><strong>Treatment of functional disorders</strong></td>
<td></td>
<td>J. Stone (Edinburgh, UK)</td>
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<tr>
<td>13:30</td>
<td><strong>Teaching course</strong></td>
<td>Room E</td>
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<td></td>
<td><strong>Intracerebral haemorrhage: diagnostic and therapeutic strategies</strong></td>
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<td><strong>Chairpersons:</strong></td>
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<td>C. Stapf (Paris, FR)</td>
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<td>13:30</td>
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<td>R. Chapot (Essen, DE)</td>
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<td><strong>Intracerebral haemorrhage</strong></td>
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<td>14:15</td>
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<td>C. Stapf (Paris, FR)</td>
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<td><strong>Subarachnoid haemorrhage</strong></td>
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<td>15:00</td>
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<td>R. Chapot (Essen, DE)</td>
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<td><strong>Coffee break</strong></td>
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<td>15:30</td>
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<td><strong>Sinus venous thrombosis</strong></td>
<td></td>
<td>J. Ferro (Lisbon, PT)</td>
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<td>16:15</td>
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<td></td>
<td><strong>Angiopathies causing intracranial bleeds</strong></td>
<td></td>
<td>P.D. Berlit (Essen, DE)</td>
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</table>

*This teaching course is based on the input of the ENS Subcommittee Cerebrovascular Disorders (Chair: F. Fazekas (Graz, AT))*
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</table>
| 13:30 | **Teaching course**  
Management of dystonia  
Chairpersons: M.J. Vidailhet (Paris, FR)  
T. Warner (London, UK) |
| 13:30 | Genetics of primary dystonia (DYT1 – DYT6)  
T. Warner (London, UK) |
| 14:15 | Dystonia plus syndromes (DRD, DYT11 etc.)  
M.J. Vidailhet (Paris, FR) |
| 15:00 | Coffee break |
| 15:30 | Update on fixed dystonia  
M. Ciocca (Milan, IT) |
| 16:15 | Botulinum toxin and the management of dystonia  
M.H. Marion (London, UK) |
Oral Sessions Overview

Sunday, 10 June 2012

13:45 – 15:15
Room C
Room D
Room E
Room F

Oral Sessions 1 – 4
• Session 1 – MS imaging / Neurophysiology
• Session 2 – Epilepsy I
• Session 3 – Movement disorders I
• Session 4 – Neuro-ophthalmology

15:45 – 17:15
Room C
Room D
Room E
Room F

Oral Sessions 5 – 8
• Session 5 – Multiple sclerosis II
• Session 6 – Epilepsy I
• Session 7 – Movement disorders II
• Session 8 – Imaging

Monday, 11 June 2012

09:30 – 11:00
Room B
Room C
Room D

Oral Sessions 9 – 11
• Session 9 – Movement disorders III
• Session 10 – Sleep disorders
• Session 11 – General neurology

13:30 – 15:00
Forum Hall
Room A
Room B
Room C
Room F

Oral Sessions 12 – 16
• Session 12 – Multiple sclerosis III
• Session 13 – Cerebrovascular disorders I
• Session 14 – Neuromuscular disorders
• Session 15 – Child neurology
• Session 16 – Neuro-oncology

15:30 – 17:00
Forum Hall
Room A
Room B
Room C
Room F

Oral Sessions 17 – 21
• Session 17 – Multiple sclerosis IV
• Session 18 – Cerebrovascular disorders II
• Session 19 – Motor neuron disease
• Session 20 – Infection
• Session 21 – Neurorehabilitation

Tuesday, 12 June 2012

09:30 – 11:00
Room B
Room C
Room D

Oral Sessions 22 – 24
• Session 22 – Clinical neurophysiology
• Session 23 – Dementia
• Session 24 – Pain and headache
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>14:00</td>
<td>O193</td>
<td>Resting state functional connectivity abnormalities are associated with cognitive impairment in patients with paediatric multiple sclerosis</td>
<td>M. Filippi, M.A. Rocca, P. Valsasina, M.P. Amato, M. Absinta, A. Ghezzi, L. Moiola, A. Fiorino, P. Veggiotti, A. Falini, G. Comi and the MS and Neuroimaging Study Groups of the Italian Neurological Society</td>
</tr>
<tr>
<td>15:00</td>
<td>O197</td>
<td>Exploring the relationship between regional grey-matter atrophy and cognitive impairment in paediatric multiple sclerosis</td>
<td>M.A. Rocca, M. Absinta, M.P. Amato, A. Ghezzi, L. Moiola, A. Fiorino, P. Veggiotti, A. Falini, G. Comi, M. Filippi and the MS and Neuroimaging Study Groups of the Italian Neurological Society</td>
</tr>
</tbody>
</table>
Oral Sessions

Sunday, 10 June 2012

**Oral session 2**
**Epilepsy I**
Chairpersons: H. Cock (London, UK)
I. Rektor (Brno, CZ)

13:45	O198 What are the characteristics of people who attend emergency departments with epilepsy?
L. Ridsdale, A. Noble, L. Goldstein, P. McCrone, P. Seed (London, UK)

14:00	O199 Does adequate delivery of anti-epileptic drugs change the prognostic of status epilepticus?
V. Alvarez, J.-M. Januel, B. Burnand, A.O. Rossetti (Lausanne, CH)

14:15	O200 Determination of the efficacy of phenytoin on prevention of late post-traumatic seizure
P. Dolati, M.S. Akhtar Shomar, S.M. Ziabary (Calgary, CA; Kerman, Tehran, IR)

14:30	O201 Use of complementary and alternative medicine in an urban county hospital epilepsy clinic
E. Maa (Denver, US)

14:45	O202 Skin autonomic seizures
S. Rocha, J. Pinho, F. Sousa, A. Machado (Braga, PT)

15:00	O203 Migralepsy: confirming the real existence of this nosologic entity as a true migraine complication and proposing therapy

**Oral session 3**
**Movement disorders I**
Chairpersons: A. Ludolph (Ulm, DE)
J. Roth (Prague, CZ)

13:45	O204 White-matter damage in Parkinson’s disease patients with glucocerebrosidase gene mutations: a study using diffusion tensor imaging
L. Sarro, F. Agosta, K. Davidovic, N. Kresojevic, M. Svetel, I. Stankovic, G. Comi, V.S. Kostic, M. Filippi (Milan, IT; Belgrade, RS)
### Oral Sessions

#### Oral session 3

**Movement disorders I (cont.)**

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
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<tbody>
<tr>
<td>14:00</td>
<td><strong>O205</strong> Diffusion tensor imaging contributes to differentiate Richardson’s syndrome from progressive supranuclear palsy-parkinsonism</td>
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<tr>
<td></td>
<td>F. Agosta, M. Pievani, M. Svetel, M. Jecmenica Lukic, M. Copetti, A. Tomic, A. Scarale, G. Longoni, G. Comi, V.S. Kostic, M. Filippi (Milan, IT; Belgrade, RS; San Giovanni Rotondo, IT)</td>
</tr>
<tr>
<td>14:15</td>
<td><strong>O206</strong> A loud auditory stimulus overcomes voluntary movement limitation in cervical dystonia</td>
</tr>
<tr>
<td>14:30</td>
<td><strong>O207</strong> Impaired initiation of voluntary contraction on a reaction time task may support the clinical diagnosis in fixed dystonia</td>
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<td>A. Batla, P. Kassavetis, I. Parees, K. Bhatia, M.J. Edwards (London, UK)</td>
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<td>14:45</td>
<td><strong>O208</strong> Dopamine D2 receptor gene polymorphisms in Wilson’s disease: impact on clinical presentation</td>
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<td>A. Czlonkowska, T. Litwin, G. Gromadzka, J. Samochowiec, A. Grzywacz (Warsaw, Szczecin, PL)</td>
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<tr>
<td>15:00</td>
<td><strong>O209</strong> A breath test for personalising carbidopa therapy in Parkinson’s disease</td>
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<td>A. Modak, R. Durso, E. Josephs, D. Rosen (Andover, Boston, US)</td>
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#### Oral session 4

**Neuro-ophthalmology**

Chairpersons: C. Bonnet (Prague, CZ)  
M. Dieterich (Munich, DE)

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<tr>
<th>Time</th>
<th>Presentation</th>
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<tbody>
<tr>
<td>13:45</td>
<td><strong>O210</strong> Differentiation of cortical processing of visual stimuli in patients with Phobic Postural Vertigo and healthy controls</td>
</tr>
<tr>
<td></td>
<td>R. Feuerecker, R. Schniepp, T. Stephan, M. Dieterich (Munich, DE)</td>
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<tr>
<td>14:00</td>
<td><strong>O211</strong> Association of retinal nerve fibre and ganglion cell layer measures with grey- and white-matter atrophy in multiple sclerosis</td>
</tr>
</tbody>
</table>
Oral Sessions  
Sunday, 10 June 2012

13:45 – 15:15
Room F

Oral session 4
Neuro-ophthalmology (cont.)

14:15  O212  White- and grey-matter damage extends beyond the visual pathways in patients with autosomal dominant optic atrophy and OPA1 mutations

14:30  O213  Post-vaccination optic neuritis in postpartum caucasian female patients
S. Iyadurai, P. Anprasertporn (St. Louis, US)

14:45  O214  Post-traumatic ophthalmic artery pseudoaneurysm presenting as epistaxis: case report and review of the literature
P. Dolati, W. Morrish, J. Wong (Calgary, CA)

15:00  O215  Idiopathic intracranial hypertension is characterised by impaired cerebrovascular autoregulation
J.A. Sharpe, B. Hui, J. Poublan, A. Chmielewski, J. Fierstra, D.M. Mandell, D.J. Mikulis (Toronto, CA)

15:45 – 17:15
Room C

Oral session 5
Multiple sclerosis II
Chairpersons: G. Comi (Milan, IT)
K. Selmaj (Lodz, PL)

15:45  O216  Endovascular treatment of CCSVI in patients with multiple sclerosis: clinical outcome of an italian cohort of 251 cases

16:00  O217  MRI endpoints and relapse rates in the double-blind, placebo-controlled, Phase 2, 26-week DreaMS trial of a selective S1P receptor agonist ONO 4641 in patients with relapsing-remitting multiple sclerosis
K.W. Selmaj, T.L. Vollmer, A. Bar-Or, F. Zipp, B.R. Due on behalf of the DREAMS Study Group
Oral Sessions

Sunday, 10 June 2012

15:45 – 17:15
Room C

16:15 0218
Oral session 5
Multiple sclerosis II (cont.)

Long-term efficacy data from the extension of the phase III TRANSFORMS study of fingolimod versus interferon beta-1a in relapsing-remitting multiple sclerosis: 4.5 year follow-up
B. Khatri, F. Barkhof, G. Comi, H.P. Hartung,
L. Kappos, X. Montalban, J. Pelletier, T. Stites,
E. Kornyeyeva, F. Holdbrook, P. von Rosenstiel,
J. Cohen (Milwaukee, US; Amsterdam, NL; Milan, IT;
Düsseldorf, DE; Basel, CH; Barcelona, ES; Marseille, FR;
East Hanover, US; Cleveland, US)

16:30 0219
Fingolimod significantly reduced brain volume loss in patients with relapsing-remitting multiple sclerosis: 4-year data from FREEDOMS extension study
E. Radue, L. Kappos, P. O’Connor, C. Polman,
R. Hohlfeld, P. Calabresi, K. Selmaj, A. de Vera,
N. Sfikas, L. Zhang-Auberson, G. Francis (Basel, CH;
Toronto, CA; Amsterdam, NL; Munich, DE; Baltimore,
US; Lodz, PL; East Hanover, US)

16:45 0220
Efficacy of two dosing frequencies of subcutaneous interferon beta-1a on the risk of conversion from a first demyelinating event to multiple sclerosis: 3-year results of a phase III, double-blind, multicentre trial (REFLEXION)
G. Comi, N. De Stefano, M. Freedman, F. Barkhof,
C.H. Polman, B.M.J. Uitdehaag, E. Verdun di Cantogno, L. Lehr, D. Issard, S. Haller, B. Hennessy,
L. Kappos (Milan, Siena, IT; Ottawa, CA; Amsterdam,
NL; Geneva, Basel, CH)

17:00 0221
Deep rTMS with H-coil enhances improvement of walking abilities in patients with progressive multiple sclerosis undergoing rehabilitation: a randomised, placebo-controlled, double-blind study
L. Leocani, A. Nuara, A. Formenti, P. Rossi, A. Zangen,
M. Comola, G. Comi (Milan, IT; Beer Sheva, IL)
Oral Sessions

15:45 – 17:15
Room D

15:45

O222 Clinical characteristics of newly developed epileptic seizures in elderly Japanese
T. Mitsueda-Ono, M. Hagiwara, M. Daifu, K. Kobayashi, K. Watanabe, Y. Nakaya, Y. Miyazaki, M. Matsui (Otsu, Kyoto, Hachioji, JP)

16:00

O223 High-frequency oscillations in a cortical microdomain – a modelling study
J. Pyrzowski, A. Zakrzewska, A. Ossowska, M. Sawicka, M. Sieminski (Gdansk, PL)

16:15

O224 Automatic onset localisation of rhythmic EEG patterns – A proof of concept
G. Gritsch, F. Fürbass, H. Perko, Ch. Baumgartner, M. Hartmann, T. Kluge (Vienna, AT)

16:30

O225 Improved online seizure detection system for epilepsy monitoring units
F. Fürbaß, M. Hartmann, H. Perko, C. Baumgartner, A. Skupch, P. Dollfuß, T. Kluge (Vienna, AT)

16:45

O226 Increased fronto-temporal cortical thickness in juvenile myoclonic epilepsy: evidence from quantitative MRI
S. Alhusaini, L. Ronan, C. Scanlon, C. Whelan, C. Doherty, N. Delanty, M. Fitzsimons (Dublin, IE)

17:00

O227 Cytokine and neurotransmitter data in patients with drug-resistant epilepsy
Y. Lekomtseva, G. Cubina, T. Gorbach (Kharkiv, UA)

Oral session 6
Epilepsy II
Chairpersons: P. Boon (Ghent, BE)
M. Holtkamp (Berlin, DE)

Oral session 7
Movement disorders II
Chairpersons: P. Taba (Tartu, EE)
P. Kanovsky (Prague, CZ)

15:45

O228 Mild cognitive impairment in patients with multiple system atrophy
S. Skelina, R. Pavlova, M. Petrova, O. Grigorova, M. Raycheva, L. Traykov (Sofia, BG)

16:00

O229 Diffusion tensor imaging reveals widespread white-matter changes in multiple system atrophy
A.M. Rulseh, J. Keller, H. Brozova, R. Rusina, R. Jech, J. Vymazal (Prague, CZ)
Oral Sessions

Sunday, 10 June 2012

15:45 – 17:15
Room E

16:15 O230 Clinical and cognitive correlates of white-matter tract damage in progressive supranuclear palsy
S. Galantucci, F. Agosta, K. Davidovic, M. Svetel, M. Copetti, M. Jecmenica Lukić, A. Tomic, G. Comi, V.S. Kostic, M. Filippi (Milan, IT; Belgrade, RS; Foggia, IT)

16:30 O231 Analysis of stereotactic accuracy in patients undergoing deep brain stimulation using Nexframe and Leksell frame
M. Bot, P. van den Munckhof, R.A.E. Bakay, D. Sierens, G.T. Stebbins, L. Verhagen Metman (Chicago, US; Amsterdam, NL; Rockford, US)

16:45 O232 Effect of levodopa on vowel articulation in parkinsonian dysarthria
Y. Okada, T. Toda, M. Murata (Kobe, Tokyo, JP)

17:00 O233 Relaxation guided imagery as a new therapeutic tool for the treatment of motor fluctuations in Parkinson’s disease
I. Schlesinger, O. Benyakov, I. Erikh, E. Sprecher (Haifa, IL)

Oral session 7
Movement disorders II (cont.)

15:45 – 17:15
Room F

15:45 O234 Correlation between cortical beta-amyloid plaque deposition and glycolysis in preclinical Alzheimer’s disease

16:00 O235 Multi-tracer PET early frames as a functional marker in Alzheimer’s disease
V.H. Abreu, S. Carter, A. Nordberg (Oslo, NO; Stockholm, SE)

16:15 O236 Does self-referential stimuli perception decrease with diminished level of consciousness?
Oral Sessions

Sunday, 10 June 2012

15:45 – 17:15
Room F

16:30
O237  Functional network connectivity in the behavioural variant of frontotemporal dementia

16:45
O238  Evaluation of the cortical localisation of language in patients with gliomas – a longitudinal fMRI-investigation
D. Kopp, J. Nickel, R.J. Seitz (Düsseldorf, DE)

17:00
O239  Interaction between spontaneous fluctuation and auditory evoked activity during wakefulness and loss of consciousness
Oral Sessions

Monday, 11 June 2012

**Oral session 9**
**Movement disorders III**
Chairpersons: C. Helmchen (Lübeck, DE)  
E. Ruzicka (Prague, CZ)

<table>
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<tr>
<th>Time</th>
<th>Talk ID</th>
<th>Title</th>
<th>Authors/Institutes</th>
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<tbody>
<tr>
<td>09:30</td>
<td>O240</td>
<td>Myoclonus dystonia syndrome: SGCE mutations and psychiatric disease</td>
<td>Peall et al.</td>
</tr>
<tr>
<td>09:45</td>
<td>O241</td>
<td>Dopa responsive dystonia, associated with early-onset parkinsonism and restless legs syndrome in a family with GCH1 deletion</td>
<td>Vila-Real et al.</td>
</tr>
<tr>
<td>10:00</td>
<td>O242</td>
<td>Prevalence of neurodegenerative parkinsonism in the isolated population of south-eastern Moravia, Czech Republic</td>
<td>Farnikova et al.</td>
</tr>
<tr>
<td>10:15</td>
<td>O243</td>
<td>Voluntary, spontaneous and reflex blinking in multiple system atrophy</td>
<td>Bologna et al.</td>
</tr>
<tr>
<td>10:30</td>
<td>O244</td>
<td>Richardson's syndrome presenting as atypical MSA: clinico-pathologic case report</td>
<td>Vastik et al.</td>
</tr>
<tr>
<td>10:45</td>
<td>O245</td>
<td>Clinical, biochemical and radiological profile of Wilson's disease and effect of treatment</td>
<td>Kumar et al.</td>
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**Oral session 10**
**Sleep disorders**
Chairpersons: C. Bassetti (Berne/Lugano, CH)  
J. Santamaria (Barcelona, ES)

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<th>Time</th>
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<tbody>
<tr>
<td>09:30</td>
<td>O246</td>
<td>Narcolepsy – clinical differences and sleep co-morbidities in different age groups</td>
<td>Nevsimalova et al.</td>
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<td>9:30 – 11:00</td>
<td>Room C</td>
<td><strong>Oral session 10</strong>&lt;br&gt;Sleep disorders (cont.)</td>
<td>Normative EMG values during REM for the diagnosis of RBD&lt;br&gt;B. Frauscher, A. Iranzo, C. Gaig, V. Gschliesser, M. Guaita, V. Raffelseder, L. Ehrmann, N. Sola, M. Salamero, E. Tolosa, W. Poewe, J. Santamaria, B. Högl (Innsbruck, AT; Barcelona, ES)</td>
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<tr>
<td>9:30 – 11:00</td>
<td>Room D</td>
<td><strong>Oral session 11</strong>&lt;br&gt;General neurology</td>
<td>Substitutive treatment for GH deficit in patients with traumatic brain injury&lt;br&gt;O. Kozlowski, J. Paquerel, E. Merlen, C. Cortet Rudelli, M. Rousseaux (Lille, FR)</td>
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<td>10:00</td>
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<td><strong>Oral session 11</strong>&lt;br&gt;General neurology</td>
<td>Assessment of localisation to auditory stimulation in post-comatose states: use the patient’s own name&lt;br&gt;O. Gossieres, L. Cheng, V. Charland-Verville, L. Ying, X. Hu, D. Yu, H. Gao, M. He, C. Schnakers, H. Di, S. Laureys (Liège, BE; Hangzhou, CN)</td>
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<td>10:00</td>
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<td><strong>Oral session 11</strong>&lt;br&gt;General neurology</td>
<td>Pseudobulbar affect as a transient sports concussion symptom: the first case report&lt;br&gt;D. Kantor (Ponte Vedra, US)</td>
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<td>9:30 – 11:00</td>
<td>Room C</td>
<td><strong>Oral session 11</strong>&lt;br&gt;General neurology</td>
<td>Periodic limb movement disorder presenting as a parasomnia&lt;br&gt;C. Gaig, A. Iranzo, J. Santamaria (Barcelona, ES)</td>
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<td>9:30 – 11:00</td>
<td>Room D</td>
<td><strong>Oral session 11</strong>&lt;br&gt;General neurology</td>
<td>Restless legs syndrome and pregnancy: frequency and characteristics in a Peruvian population&lt;br&gt;J.O. Ramirez, S.A.S. Cabrera, H. Hidalgo, S.G. Cabrera, M. Linnebank, C. Bassetti, U. Kallweit (Lima, PE; Asbach, DE; Zurich, Berne/Lugano, CH)</td>
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<td>9:30 – 11:00</td>
<td>Room D</td>
<td><strong>Oral session 11</strong>&lt;br&gt;General neurology</td>
<td>Anxiety and its role in different types of sleep disorders&lt;br&gt;A. Howe, Y. Levin, K. Strygin, M. Poluektov (Moscow, RU)</td>
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<tr>
<td>9:30 – 11:00</td>
<td>Room D</td>
<td><strong>Oral session 11</strong>&lt;br&gt;General neurology</td>
<td>Effect of transdermal methylphenidate wear times on sleep in children with ADHD&lt;br&gt;A. Ashkenasi (Springfield, US)</td>
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**Monday, 11 June 2012**
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<tr>
<th>Time</th>
<th>Oral Session 11</th>
<th>Oral Session 12</th>
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<tr>
<td>09:30 – 11:00</td>
<td><strong>General neurology (cont.)</strong></td>
<td><strong>Multiple sclerosis III</strong></td>
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</table>
| 10:15 | O255 **Prognosis of the patients with functional motor disorders**  
L. Leht, Ü. Krikkmann, S.-M. Lüüs, S. Haldre (Tartu, EE) | **Clinical outcomes with BG-12 treatment in CONFIRM (Comparator and an Oral Fumarate in Relapsing-Remitting Multiple Sclerosis), a multicentre, randomised, placebo-controlled, phase 3 study**  
E. Havrdova, R.J. Fox, D. Miller, J.T. Phillips, M. Kita, M. Hutchinson, M. Yang, R. Zhang, M. Novas, V. Viglietta, K.T. Dawson (Prague, CZ; Cleveland, US; London, UK; Dallas, Seattle, US; Dublin, IE; Cambridge, US) |
| 10:30 | O256 **Accuracy of the prehospital diagnosis of acute cerebrovascular events**  
M.A. Karlinski, M. Gluszkiewicz, A. Czlonkowska (Warsaw, PL) |  |
| 10:45 | O257 **Clinical presentations of Vogt-Koyanagi-Harada disease**  
J. Morgado, C. Nobrega, R. Relvas, A. Calado, I. Henriques (Lisbon, PT) |  |
| 13:30 – 15:00 |  | **Clinical outcomes with BG-12 treatment in CONFIRM (Comparator and an Oral Fumarate in Relapsing-Remitting Multiple Sclerosis), a multicentre, randomised, placebo-controlled, phase 3 study**  
E. Havrdova, R.J. Fox, D. Miller, J.T. Phillips, M. Kita, M. Hutchinson, M. Yang, R. Zhang, M. Novas, V. Viglietta, K.T. Dawson (Prague, CZ; Cleveland, US; London, UK; Dallas, Seattle, US; Dublin, IE; Cambridge, US) |
| 13:30 | O258 **Clinical outcomes with BG-12 treatment in CONFIRM (Comparator and an Oral Fumarate in Relapsing-Remitting Multiple Sclerosis), a multicentre, randomised, placebo-controlled, phase 3 study**  
E. Havrdova, R.J. Fox, D. Miller, J.T. Phillips, M. Kita, M. Hutchinson, M. Yang, R. Zhang, M. Novas, V. Viglietta, K.T. Dawson (Prague, CZ; Cleveland, US; London, UK; Dallas, Seattle, US; Dublin, IE; Cambridge, US) | **Effects of BG-12 on magnetic resonance imaging outcomes in CONFIRM (Comparator and an Oral Fumarate in Relapsing-Remitting Multiple Sclerosis), a randomized, placebo-controlled, phase 3 study**  
D. Miller, R.J. Fox, J.T. Phillips, M. Kita, M. Hutchinson, E. Havrdova, D. MacManus, T. Yousry, R. Zhang, V. Viglietta, K.T. Dawson (London, UK; Cleveland, Dallas, Seattle, US; Dublin, IE; Prague, CZ; Cambridge, US) |
| 13:45 | O259 **Effects of BG-12 on magnetic resonance imaging outcomes in CONFIRM (Comparator and an Oral Fumarate in Relapsing-Remitting Multiple Sclerosis), a randomized, placebo-controlled, phase 3 study**  
D. Miller, R.J. Fox, J.T. Phillips, M. Kita, M. Hutchinson, E. Havrdova, D. MacManus, T. Yousry, R. Zhang, V. Viglietta, K.T. Dawson (London, UK; Cleveland, Dallas, Seattle, US; Dublin, IE; Prague, CZ; Cambridge, US) | **Updated analysis of progressive multifocal leukoencephalopathy risk factors in natalizumab-treated multiple sclerosis patients**  
| 14:00 | O260 **Updated analysis of progressive multifocal leukoencephalopathy risk factors in natalizumab-treated multiple sclerosis patients**  
Oral Sessions

Monday, 11 June 2012

13:30 – 15:00
Forum Hall

14:15
O261

**Oral session 12**

**Multiple sclerosis III (cont.)**

**Tysabri® Observational Program (TOP) results: long-term safety and efficacy and association between baseline treatment history and postbaseline relapses in multiple sclerosis patients treated with natalizumab**

L. Kappos, S. Belachew, H. Butzkueven, F. Pellegrini, M. Trojano, H. Wiendl, A. Zhang, R. Arnold (Basel, CH; Liège, BE; Victoria, AU; Chieti, Bari, IT; Münster, DE; Weston, US)

14:30
O262

**Effects of a 24-week natalizumab treatment interruption on clinical and radiologic parameters of multiple sclerosis disease activity: the RESTORE study**


14:45
O263

**Evaluation of patient satisfaction from the TENERE study: a comparison of teriflunomide and subcutaneous interferon beta-1a in patients with relapsing multiple sclerosis**


13:30 – 15:00
Room A

13:30
O264

**Oral session 13**

**Cerebrovascular disorders I**

Chairpersons: G. Stoll (Würzburg, DE) A. Verdelho (Lisbon, PT)

13:30
O264

**Does thrombolysis enhance seizures in the acute ischaemic stroke setting?**

V. Alvarez, A.O. Rossetti, P. Michel (Lausanne, CH)

13:45
O265

**Reliability of different symptomatic intracranial haemorrhage definitions in predicting 3-month outcome after intravenous thrombolysis for ischaemic stroke**

### Oral Session 13
**Cerebrovascular disorders I (cont.)**

**Morphologic findings in young adults with ischaemic cerebrovascular disease: the Stroke in Young Fabry Patients (sifap1) study**

**Risk reduction of brain infarction during carotid endarterectomy or stenting using sonolysis. A prospective randomised pilot study**

**Lateral medullar infarction and hyperglycaemia: study in 26 patients with control group**
L. Ruano, I. Alves, R. Barreto, C. Veira, V. Tedim Cruz (Santa Maria da Feira, PT)

**Very small cerebral aneurysms: do they rupture?**
P. Dolati, M. Tso, W. Morrish, J. Wong, G. Sutherland (Calgary, CA)

### Oral Session 14
**Neuromuscular disorders**
Chairpersons: C. Sommer (Würzburg, DE) A. Toscano (Messina, IT)

**Peripheral autonomic neuropathy: a morphological and functional study of sympathetic innervation**
R. Liguori, A. Incensi, M. Giannoccaro, V. Di Stasi, F. Pizza, A. Baruzzi, V. Donadio (Bologna, IT)

**A randomised, double-blinded, placebo-controlled trial of the effect of subcuta-neous immunoglobulin on muscular performance in chronic inflammatory de-myelinating polyneuropathy**
**Oral Sessions Monday, 11 June 2012**

**Oral session 14**
Neuromuscular disorders (cont.)

- **O272** Prediabetes/early diabetes-associated polyneuropathy is predominantly preclinical and involves sensory small fibres
  S. Bursova, J. Bednarik, E. Víckova, M. Hnojčíková, M. Nemec, P. Dubovy, J. Beloradková, L. Dusek, J. Jarkovsky (Brno, CZ)

- **O273** The pure sensory form of Lewis-Sumner syndrome
  M. de Freitas, O. Nascimento, F. Cardoso, C. Pupe (Niterói, BR)

- **O274** Calpain-3 deficiency in paucisymptomatic or asymptomatic hyperCKemia

- **O275** CUGBP1 in myotonic dystrophies: new diagnostic histopathological marker and player in pathomolecular mechanism
  G. Meola, E. Bugiardini, L. Renna, F. Rizzo, R. Cardani (San Donato, IT)

**Oral session 15**
Child neurology
Chairpersons: D. Pohl (Ottawa, CA) S. Nevsimalova (Prague, CZ)

- **O276** New type-4 D-bifunctional protein deficiency caused by compound heterozygous mutation of hydroxysteroid 17-beta dehydrogenase 4 (HSD17B4)
  H.J. McMillan, T. Worthylake, M. Geraghty, D. Bulman, C. Gottlieb, S. Coupand, S. Lawrence, K.M. Boycott (Ottawa, CA)

- **O277** Early infantile epileptic encephalopathy 4: case report of two Portuguese patients with novel mutations in the STXBP1 gene
  M. Sampaio, D. Alves, S. França, R. Rocha, R. Sousa, M. Vila Real, S. Biskup, M. Leão (Porto, PT; Tübingen, DE)

- **O278** Epidemiological and molecular diagnostic landscape of Pelizaeus-Merzbacher disease and associated disorders in Japan: a nation-wide survey
Oral Sessions

Monday, 11 June 2012

13:30 – 15:00
Room C

Oral session 15
Child neurology (cont.)

14:15 O279 Brain injury of 160 Chinese patients with neonatal-onset methylmalonic aciduria
Y. Yang, Y. Liu, Y. Ma, X. Li, Y. Ding, Q. Wang (Beijing, CN)

14:30 O280 Atypical presentation of subacute sclerosing panencephalitis
T. Uyar, P. Topaloglu, Z. Yapici, M. Eraksoy (Istanbul, TR)

14:45 O281 MRI predictors of efficacy of constraint-induced movement therapy in paediatric patients with brain injury: a diffusion tensor and resting-state study

13:30 – 15:00
Room F

Oral session 16
Neuro-oncology

Chairpersons: M. Weller (Zurich, CH)
W. Wick (Heidelberg, DE)

13:45 O282 Effect of gender on the production of autoantibodies to meningioma antigens

14:00 O283 New therapeutic targets for malignant gliomas: role of Tie2-expressing monocytes in the failure of antiangiogenesis therapies

14:15 O284 Phase I clinical trial in patients with recurrent gliomas: delta-24-RGD oncolytic adenovirus induces an anti-glioma immune-response

14:30 O285 Bevacizumab chemotherapy for the treatment of newly diagnosed and progressive primary brain tumours
H.B. Newton, J. Lima, H.L. Cunningham (Columbus, US)
### Oral Sessions

#### Oral session 16

**Neuro-oncology (cont.)**

14:45  
**O286**  
Combination of quadrigeminal cistern lipoma and foramen magnum meningioma  
N. Dimitrov, E. Todorova-Dimitrova, K. Genov (Sofia, BG)

15:00  
**O287**  
Relationship between the degree of malignancy of gliomas and the current value of the motor-evoked potential during brain surgery  

#### Oral session 17

**Multiple sclerosis IV**

Chairpersons: R. Gold (Bochum, DE)  
X. Montalban (Barcelona, ES)

15:30  
**O288**  
Disease activity-free status in comparison of Alemtuzumab and Rebif® efficacy in multiple sclerosis I (CARE-MS I) phase 3 study  

15:45  
**O289**  
Disability outcomes for alemtuzumab in RRMS patients who relapsed on prior therapy: CARE-MS II  

16:00  
**O290**  
Spatial mapping of brain lesions in clinically isolated syndrome with short-term conversion to multiple sclerosis  
A. Giorgio, M. Battaglini, M.A. Rocca, A. De Leucio, M. Absinta, F. Barkof, A. Rovira, M. Tintoré, D. Chard, O. Ciccarelli, C. Enzinger, C. Gasperini, J. Frederiksen, M. Filippi, N. De Stefano (Siena, Milan, IT; Amsterdam, NL; Barcelona, ES; London, UK; Graz, AT; Rome, IT; Copenhagen, DK)

16:15  
**O291**  
Vitamin D levels and risk of developing multiple sclerosis  
Oral Sessions

Oral session 17
Multiple sclerosis IV (cont.)

16:30
O292 Preferential expression of the mutant ABCD1 allele is common in adrenoleukodystrophy female carriers but unrelated to clinical symptoms
E. Salsano, S. Tabano, S. Sirchia, P. Colapietro, B. Castellotti, C. Gellera, M. Rimoldi, V. Pensato, C. Mariotti, M. Miozzo, D. Pareyson, G. Uziel (Milan, IT)

16:45
O293 Higher T2 lesion volume in clinically isolated syndrome indicates higher risk of clinically definite multiple sclerosis

Oral session 18
Cerebrovascular disorders II
Chairpersons: F. Fazekas (Graz, AT)
P. Kalvach (Prague, CZ)

15:30
O294 C1-inhibitor protects from ischaemic stroke in rodents by combined anti-inflammatory and anti-thrombotic mechanisms
N. Heydenreich, M.W. Nolte, F. Langhauser, G. Stoll, C. Kleinschnitz (Würzburg, Marburg, DE)

15:45
O295 Aquaporin-4 as a therapeutic target for neuroprotection by piroxicam in rat model of focal cerebral ischaemia
P. Bhattacharya, A. Pandey, S. Paul, R. Patnaik (Varanasi, IN)

16:00
O296 FTY720 protects mice from ischaemic stroke by reducing lymphocyte trafficking but not by stabilising the blood-brain barrier
P. Kraft, W. Pfeilschifter, G. Stoll, C. Kleinschnitz (Würzburg, Frankfurt, DE)

16:15
O297 Does the protective effect of oestrogen in the rat stroke model extend to old age?
R. Sandu (Craiova, RO)

16:30
O298 The factor XIII Val134Leu polymorphism and ischaemic stroke in children
I. Kopyta, I. Zak, T. Iwanicki, T. Nowak, E. Emich-Widera (Katowice, PL)
Oral Session 18
Cerebrovascular disorders II (cont.)

High intracranial calcification burden as an independent risk factor of poor outcome in patients with acute middle cerebral artery stem occlusion and recanalization therapy

Oral Session 19
Motor neuron disease

Chairpersons: J. Valls-Solé (Barcelona, ES)  V. Silani (Trieste, IT)

Global epidemiology of amyotrophic lateral sclerosis: a systematic review of the published literature
A. Chiò, G. Logroscino, B. Traynor, J. Collins,
J. Simeone, L. Nalysnyk, L.A. White (Torino, Bari, IT; Bethesda, Lexington, Weston, US)

Development of a “red flags” symptom list to assist with early recognition and diagnosis of amyotrophic lateral sclerosis
N. Atassi, I. Nakano, J.S. Mora, V. Drory,
M. Cudkowicz, J. Shefner, A. Chiò, H. Mitsumoto,
V. Silani, L. Zinman, M. Weber, L.H. van den Berg,
W. Robberecht, L-O Ronnevi, O. Hardiman, L. Bruijn,
D. Kerr, J.R. Williams (Charlestown, US; Togichi,
JP; Madrid, ES; Tel-Aviv, IL; Syracuse, US; Torino, IT;
New York, US; Milan, IT; Toronto, CA; St. Gallen, CH;
Utrecht, NL; Leuven, BE; Stockholm, SE; Dublin, IE;
Florida, Cambridge, US)

White-matter damage in amyotrophic lateral sclerosis and primary lateral sclerosis: a tract-based spatial statistics study
F. Agosta, S. Galantucci, E. Scola, A. Chiò, N. Riva,
V. Silani, A. Calvo, S. Iannaccone, A. Falini, G. Comi,
M. Filippi (Milan, Turin, IT)

Prospective memory tasks: a more sensitive method for screening cognitive impairment in early-phase amyotrophic lateral sclerosis
Y. Ji, L. Wei, K. Wang, D. Fan (Beijing, Hefei, CN)
Oral Sessions

Oral session 19
Motor neuron disease (cont.)

Brown-Vialetto-Van Laere and Fazio Londe overlap motor neuron syndromes with bulbar involvement. A clinical, biochemical and genetic study

Oral session 20
Infection
Chairpersons: J. Sellner (Munich, DE) J.C. Garcia-Moncó (Galdakao, ES)

Hypothalamic proline-rich polypeptide PRP-1: new immunomodulator against methicillin-resistant Staphylococcus aureus infection
A. Durgaryan, M. Matevosyan, T. Seferyan, A. Galoyan (Yerevan, AM)

Neurologic manifestations of dengue haemorrhagic fever in a tertiary hospital in the Philippines, 2010
M.K. Garcia, R. Espiritu-Picar (Makati, PH)

Expression profile of neuropeptide Y, its receptors and its role in seizures on mouse models of toxoplasmosis and African trypanosomiasis
Y.W. Woldeamanuel (Addis Ababa, ET)

The two variants of HHV-6 in CNS disease
J. Pietiläinen-Nicklén, O. Virtanen, L. Uotila, M. Färkkilä, M. Koskiniemi (Helsinki, FI; Bethesda, US)

Locked-in syndrome caused by immune reconstitution inflammatory syndrome in a patient with AIDS and brainstem progressive multifocal leukoencephalopathy
V.A. Lioutas, A.M. Cervantes- Arslanian, D.M. Green, J.D. Burns (Boston, US)
<table>
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<th>Time</th>
<th>Oral session 21: Neurorehabilitation</th>
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| 15:30 | Outcomes in severe disorders of consciousness – preliminary results of a prospective German registry (KOPF-R)  
A. Bender, A.M. Klein, U. Mansmann, A. Straube, J. Herzog, F. Müller, E. Koenig, D. Nowak, R. Jox, E. Grill (Burgau, Munich, Bad Aibling, Kipfenberg, DE) |
| 15:45 | The awareness in patients in coma or vegetative state is not an ON-OFF process  
F. Villa, K. Colombo, V. Pastore, S. Galbiati, M. Recla, F. Locatelli, S. Galbiati, S. Strazzzer (Bosisio Parini, IT) |
| 16:00 | Summarising 16 years of research in neurorehabilitation and cell therapies for spinal cord injury  
A. Bryukhovetskiy, I. Bryukhovetskiy, M. Zhukova (Moscow, RU) |
| 16:15 | Exercise behaviour in multiple sclerosis patients  
S. Kersten, M. Mahli, C. Mai, G. Wydra, C. Haas (Saarbrücken, Idstein, DE) |
| 16:30 | Effect on functional brain plasticity of a motor dexterity training carried out with and without musical cues: a fMRI study of the mirror neuron system in healthy individuals  
| 16:45 | Outpatient rather than inpatient: results of a new housing project for people with severe neurological disabilities in Germany  
K. Wolf-Ostermann, S. Naber, J. Gräske (Berlin, DE) |
Oral Sessions  

Tuesday, 12 June 2012

**Oral session 22**  
**Clinical neurophysiology**  
Chairpersons: C. Krarup (Copenhagen, DK)  
R. Dengler (Hannover, DE)

- 09:30  
  **Plasticity of motor cortex after musical training: a neurophysiological study**  
  E. Houdayer, S. Zanini, M. Cursi, A. Nuara, G. Comi,  
  R. Gatti, L. Leocani (Milan, IT)

- 09:45  
  **Muscle sympathetic response to arousal predicts neurovascular reactivity during mental stress**  
  V. Donadio, G. Wallin, M. Elam, T. Karlsson,  
  M. Giannoccaro, G. Pegenius, F. Giambattistelli,  
  R. Liguori (Bologna, Rome, IT; Gothenburg, SE)

- 10:00  
  **Brain CT scan compared to somatosensory-evoked potential grade for predicting outcome in comatose patients with traumatic brain injury**  
  P. Dolati, M. Hill, R. Midha, M. Schwartz, D. Houlden  
  (Calgary, Toronto, CA)

- 10:15  
  **Marcus-Gunn jaw-ocular synkinesis after a pontine infarct**  
  G. Barraza, C. Medici-Olaso, V. Martínez-Quiterio,  
  M.J. Martí, J. Valls-Solé (Barcelona, ES)

- 10:30  
  **Cutaneous silent period in clinical practice**  
  I. Stetkarova, M. Kořer, A.A. Leis (Prague, CZ; Zirl, AT;  
  Jackson, US)

- 10:45  
  **Cervical vestibular-evoked myogenic potentials: stimulus polarity (rarefaction, condensation or alternating) does not appear to make a significant difference**  
  E. Papathanasiou, M. Pantzaris, M. Vasiliades,  
  S. Papacostas (Nicosia, CY)

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**Oral session 23**  
**Dementia**  
Chairpersons: H. Reichmann (Dresden, DE)  
E. Scarpini (Milan, IT)

- 09:30  
  **Conversion to preclinical Alzheimer’s disease in cognitively normal adults: beta-amyloid imaging data**  
  A.G. Vlassenko, T.M. Blazey, Y. Su, C. Xiong,  
  A.M. Goate, T.L.S. Benzinger, M.A. Mintun, J.C. Morris  
  (St. Louis, Philadelphia, US)
Oral Sessions

Tuesday, 12 June 2012

Oral session 23
Dementia (cont.)

09:45 O325 Microbleeds in post-mortem brains of patients with Alzheimer’s disease: a T2*-weighted gradient-echo 7.0-T magnetic resonance imaging study
J. De Reuck, C. Cordonnier, V. Deramecourt, F. Auger, N. Durieux, R. Bordet, C.-A. Maurage, D. Leys, F. Pasquier (Lille, FR)

10:00 O326 Patterns of microstructural white-matter damage in early and late age of onset Alzheimer’s disease patients

10:15 O327 Frequency of the chromosome 9 hexanucleotide repeats in Italian patients with frontotemporal lobar degeneration

10:30 O328 Right temporal atrophy versus frontal atrophy in patients with frontotemporal lobar degeneration: cognitive and behavioural profiles

10:45 O329 Abnormalities of functional connectivity in patients with frontotemporal dementia: a network analysis using resting state fMRI and graph theory
M. Filippi, S. Sala, P. Valsasina, F. Agosta, G. Magnani, S.F. Cappa, E. Scola, A. Falini, G. Comi (Milan, IT)
Oral Sessions

09:30 – 11:00
Room D

Oral session 24
Pain and headache
Chairpersons: F. Antonaci (Pavia, IT)
M. Obermann (Düsseldorf, DE)

09:30
Personality traits and migraine: a multicentre study using Salamanca screening test

09:45
Patients with migraine do not have MRI-visible cortical lesions

10:00
Headache in young age: clinical characteristics and adverse impact in a series of 208 cases

10:15
Clinical picture of primary stabbing headache: results in a series of 67 cases

10:30
Discrepancy of laser types in stimulating AMH-1 and AMH-2 nociceptors
B. Isak, A. Biasotta, A. Truini, G. Di Stefano, S. La Cesa, A. Pepe, M. Gabriele, M. Inghilleri, G. Cruccu (Aarhus, DK; Rome, IT)

10:45
Non-traumatic supraorbital neuralgia: a clinical study of 13 cases
P. Mulero, A.L. Guerrero, M. Pedraza, S. Herrero, C. de la Cruz, M. Ruiz, I. Muñoz, J. Barón, C. Atea, M. Abete, L. Gallardo, R. Fernández (Valladolid, ES)
Poster Sessions – Overview

Posters are displayed in the exhibition area at the following times:

**Sunday, 10 June 2012**

**Poster Session 1**
- Multiple sclerosis: disease modifying treatment I P336 – P360
- Cerebrovascular disorders I P361 – P380
- Neuro-imaging P381 – P406
- Movement disorders P407 – P424
- General neurology I P425 – P451
- Preclinical biology P452 – P456

**Monday, 11 June 2012**

**Poster Session 2**
- Multiple sclerosis: disease modifying treatment II P457 – P482
- Cerebrovascular disorders II P483 – P498
- Peripheral neuropathy P499 – P524
- Dementia I P525 – P541
- Motor neuron disease P542 – P555
- General neurology II P556 – P570
- Child neurology P571 – P578

**Poster Session 3**
- Multiple sclerosis: variants and symptomatic treatment P579 – P602
- Cerebrovascular disorders III P603 – P619
- Dementia II P620 – P644
- Pain and headache P645 – P661
- Epilepsy P662 – P677
- Neurogenetics P678 – P692
- Clinical neurophysiology P693 – P700
Poster Sessions – Overview

Tuesday, 12 June 2012

09:00 – 13:30
11:30 – 12:30

Poster Session 4

• Multiple sclerosis: miscellaneous P701 – P729
• Cerebrovascular disorders IV P730 – P752
• Muscle disorders P753 – P768
• Neurorehabilitation P769 – P780
• Neuro-oncology P781 – P790
• Infection P791 – P799
• Neuro-ophthalmology P800 – P805

Please refer to the section “Instructions for authors” on page 142 when you have to put your poster up and take it down.
Poster Session 1  
Sunday, 10 June 2012

11:30 – 12:30

**Multiple sclerosis: disease modifying treatment I**

**Poster highlight session commences at Poster No. P336 at 11:30**
Moderator: P. Labauge (Montpellier, FR)

**P336 Safety and tolerability of fingolimod 0.5 mg during the first 4 months of administration in patients with relapsing forms of multiple sclerosis. Results from the open-label, multicentre FIRST study**
L. Kappos, G. Comi, J. Palace, A. Siever, M. Marrosu, M. Mehling, R. Gottschalk, M. Bijarnia, A. Keil, D. Tomic, P. von Rosenstiel, R. Gold (Basel, CH; Milan, IT; Oxford, UK; Oldenburg, DE; Cagliari, IT; East Hanover, US; Hyderabad, IN; Bochum, DE)

**P337 Long-term safety results from a phase II, randomised, multicentre trial with ocrelizumab in relapsing-remitting multiple sclerosis**
L. Kappos, D. Li, P. Calabresi, P. O’Connor, A. Bar-Or, F. Barkhof, C. Wells, D. Leppert, R. Glanzman, J. Tinbergen, S. Hauser (Basel, CH; Vancouver, CA; Baltimore, US; Toronto, Montreal, CA; Amsterdam, NL; Welwyn Garden City, UK; Nutley, US; San Francisco, US)

**P338 Alemtuzumab improves patient-reported quality of life in relapsing-remitting multiple sclerosis: CARE-MS I and II phase 3 trials**

**P339 Impact of daclizumab HYP monotherapy on health-related quality of life in relapsing-remitting multiple sclerosis patients**
K. Selmaj, E. Havrdova, R. Gold, S. Greenberg, G. Phillips, K. Umans, J. Elkins (Lodz, PL; Prague, CZ; Bochum, DE; Redwood City, Cambridge, US)

**P340 Thyroid autoimmunity in comparison of Alemtuzumab and Rebif® efficacy in multiple sclerosis studies I and II**

**P341 Alemtuzumab pharmacokinetics and pharmacodynamics in comparison of alemtuzumab and Rebif® efficacy in multiple sclerosis**
CD56bright natural killer cell expansion and response to daclizumab HYP treatment in relapsing-remitting multiple sclerosis

Fingolimod reduces direct medical costs compared to natalizumab in patients with relapsing-remitting multiple sclerosis in the Netherlands
M. Heisen, M.J. Treur, W.S. van der Hel, M.T. Groot, B.G. Verheggen (Rotterdam, Arnhem, NL)

Indirect comparisons of oral fingolimod versus natalizumab and cladribine for the treatment of relapsing–remitting multiple sclerosis based on data from FREEDOMS, AFFIRM and CLARITY
R. Nixon, B. Eckert, G. Cutter, F. Mercier, G. Francis, L. Kappos (Basel, CH; East Hanover, Birmingham, Cambridge, US)

Cost-effectiveness of fingolimod compared to interferon beta-1a based on patient transitions in TRANSFORMS
N. Bergvall, R. Hettle, J. Murphy, M. Tambour, F. Henriksson, B. Eckert, S. Fredrikson (Basel, CH; Luton, UK; Taby, SE; Stockholm, SE)

Fingolimod is cost-saving compared with natalizumab for the treatment of relapsing–remitting multiple sclerosis: a cost-minimisation analysis in Sweden
N. Bergvall, M. Tambour, F. Henriksson, S. Fredrikson (Basel, CH; Stockholm, SE)

Cardiac safety of fingolimod 0.5 mg during the first-dose observation in a 4-month, open-label, multicentre FIRST study in relapsing multiple sclerosis patients
R. Gold, L. Kappos, J. Palace, A. Siever, M. Marrosu, R. Gottschalk, M. Bijarnia, A. Keil, D. Tomic, P. von Rosenstiel, G. Comi (Bochum, DE; Basel, CH; Oxford, UK; Oldenburg, DE; Cagliari, IT; East Hanover, US; Hyderabad, IN; Milan, IT)

Long-term (>7-year) efficacy and safety data from a phase II extension study of fingolimod in relapsing multiple sclerosis
X. Montalban, G. Comi, J. Antel, P. O’Connor, A. de Vera, M. Cremer, N. Sfikas, G. Francis, L. Kappos (Barcelona, ES; Milan, IT; Montreal, Toronto, CA; Basel, CH; East Hanover, US)
P349 Long-term safety data from the extension of the phase III TRANSFORMS study of fingolimod versus interferon beta-1a in relapsing-remitting multiple sclerosis: 4.5 year follow-up
H. Hartung, F. Barkhof, G. Comi, X. Montalban, J. Pelletier, B. Khatri, T. Stites, E. Kornysyeva, F. Holdbrook, P. von Rosensteil, W. Collins, L. Kappos, J. Cohen (Düsseldorf, DE; Amsterdam, NL; Milan, IT; Barcelona, ES; Marseille, FR; Milwaukee, East Hanover, US; Basel, CH; Cleveland, US)

P350 Fingolimod leads to early clinical and MRI benefits in relapsing-remitting multiple sclerosis
P. Chin, P. von Rosenstiel, D. Haering, G. Francis, L. Kappos (East Hanover, US; Basel, CH)

P351 Fingolimod may be safe in patients with baseline bradycardia: a case report
D. Kantor (Ponte Vedra, US)

P352 Impact of individualised physical training on fatigue in multiple sclerosis patients treated with fingolimod (Gilenya®) design of a phase IV study (PACE)
K. Schuh, C. Hentschke, M. Maeurer (Nuremberg, Erlangen, Bad Mergentheim, DE)

P353 Fingolimod (Gilenya®) in combination with an SSRI or SNRI antidepressant in multiple sclerosis patients with mild to moderate depression: design of a phase IIIb study (REGAIN)
K. Schuh, A. Bayas (Nuremberg, Augsburg, DE)

P354 Study design and first results of a non-interventional registry study to establish long-term safety and pharmaco-economic data on fingolimod (Gilenya®) in multiple sclerosis patients in Germany (PANGAEA)
T. Ziemssen, T. van Lokven, R. Kempcke, M. Meergans (Dresden, Nuremberg, DE)

P355 Anti-CD8 treatment but not fingolimod impairs control of LCMV infection in mice

P356 Prevalence of chronic cerebrospinal venous insufficiency in MS and its correlations with clinical features
R. Lanzillo, M. Mancini, R. Liuzzi, E. Salvatore, V. Magli, O. Di Donato, G. Vacca, L. Amato, G. Orefice, A. Brunetti, V. Brescia Morra (Naples, IT)

P357 Nogo-A expression kinetics in experimental autoimmune encephalomyelitis in C57BL/6 mice
Clinical amelioration and reduced axonal damage in nimodipine-treated EAE
L. De Santı, J. Ingwersen, B. Wingerath, J. Graf, F. Schröter, T. Prozorovski, H-P. Hartung, P. Annunziata, O. Aktas (Siena, IT; Düsseldorf, DE)

Cortical activation changes following botulinum-toxin treatment of leg spasticity in multiple sclerosis: pilot study
J Klosova, P. Hlustik, P. Hok (Olomouc, CZ)

Assessing the level of MMP-9, TIMP-1 and MMP-9 TIMP-1 ratio in relapsing-remitting multiple sclerosis patients during relapse and remission periods
A. Sanli Turk, M. Ozturk, A. Soysal, Y. Doventas, S. Baybas (Istanbul, TR)

Cerebrovascular disorders I

Poster highlight session commences at Poster No. P361 at 11:30
Moderator: A. Angermaier (Greifswald, DE)

Factors contributing to delirium in subarachnoid haemorrhage patients
B. Maia, R. Roque, A. Paiva-Nunes, A. Amaral-Silva, T. Mesquita, J. Alcântara (Lisbon, PT)

Endovascular treatment of ugly aneurysms using sandwich technique
B.H. Lee, M.S. Kim, M.S. Park (Daejeon, KR)

Multiple intracranial aneurysms by syphilitic infection in a patient with acute ischaemic stroke
M.J. Wang, B.S. Kim, Y.M. Shon, A.H. Cho, S.J. Han (Seoul, KR)

A diagnostic algorithm for patients with spontaneous intracerebral haemorrhage

Profile of neuronal damage markers release in course of spontaneous intracerebral haemorrhage
M. Florczak-Rzepka, A. Rocco, A. Kaminska, T. Steiner (Warsaw, PL; Heidelberg, DE)

Functional outcome after spontaneous intracerebral haemorrhage is related to biomarkers of inflammation and neuronal damage blood concentration
M. Florczak-Rzepka, A. Rocco, A. Kaminska, T. Steiner (Warsaw, PL; Heidelberg, DE)
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<th>Poster</th>
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<tr>
<td>P368</td>
<td>Relationship between inflammation and the early phase of cerebral venous thrombosis</td>
<td>S. Kamisli, O. Kamisli, S. Gonullu, C. Ozcan, Y. Kaplan (Malatya, TR)</td>
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<tr>
<td>P372</td>
<td>Soluble thrombomodulin and endothelial cell protein C receptor levels in patients with cerebral venous sinus thrombosis</td>
<td>M. Saadatnia, T. Shahsavarzadeh, S. Haghjoo, M. Tajmirriah (Isfahan, IR)</td>
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<td>P373</td>
<td>Neuropsychiatric symptoms and quality of life of people with dementia in shared-housing arrangements</td>
<td>J. Graske, A. Worch, S. Meyer, K. Wolf-Ostermann (Berlin, DE)</td>
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<td>P375</td>
<td>Head-up tilt test and r-r interval variation in the assessment of the autonomic nervous system in leprosy patients</td>
<td>R. Yioiter, H. Ulvi (Gaziantep, Erzurum, TR)</td>
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<td>P376</td>
<td>Neuroprotective effect of Tanshinone IIA against cerebral ischaemia/reperfusion injury through inhibition of macrophage migration inhibitory factor in rats</td>
<td>Y. Chen, S. Yu, J. Zhao (Chongqing, CN)</td>
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<td>P377</td>
<td>4-hydroxybenzyl alcohol ameliorates cerebral ischaemic injury by suppression of oxidative stress and inflammation</td>
<td>S. Yu, Y. Zhao, J. Zhao, Y. Chen, L. Li (Chongqing, CN)</td>
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**Curcumin inhibits oxidative stress after focal cerebral ischaemia/reperfusion injury in rats via PI3K/Akt pathway**
J. Zhao, S. Yu, J. Wu, Y. Zhao (Chongqing, CN)

**Effect of bosentan on lipid peroxidation and electroencephalography in rats with induced cerebral ischaemia-reperfusion**
M.S. Berilgen, M. Kaplan, B. Akgun, A. Sari, H. Ozdemir, C.F. Demir (Elazig, TR)

**Neuro-imaging**

**Poster highlight session commences at Poster No. P381 at 11:30**
Moderator: M.A. Rocca (Milan, IT)

**Cervical cord atrophy in hereditary spastic paraparesis**

**Neural plasticity of brain motor networks in professional fencers studied with functional MRI**

**A decision rule to order CT scanning in minor head injury**
S. Saadat, S.M. Ghodsi, M. Shakouri (Tehran, IR)

**Pseudotumoural cerebral lesion in a young female patient**
D. Popescu, A. Mergeani, C. Laza, O. Bajenaru, F. Antochi (Bucharest, RO)

**Unusual localisation of central nervous system toxoplasmosis in an HIV-negative immunocompetent male patient – case presentation**
C. Laza, A.C. Mergeani, D. Popescu, O.A. Bajenaru, F.A. Antochi (Bucharest, RO)

**Lateral meningocele syndrome: case report**
D. Alves, M. Sampaio, R. Figueiredo, M. Leão (Porto, PT)

**No face in PHACE syndrome**
D. Alves, M. Sampaio, M. L. Ribeiro da Silva, M. Leão (Porto, PT)

**AQP4 expression and diffusion tensor imaging in rat brainstem after acute alcoholism**
H.M. Liu, W.B. Zheng, L.M. Kong, H.D. Zhang, R.W. Chen (Shantou, CN)
Poster Session 1

Sunday, 10 June 2012

P389  Correlatives variables in brain mapping and digital EEG in patients with severe cranioencephalic trauma in early states
T. Montes de Oca Dominguez, J. Rojas de Dios, G. Maya Morales, I. Padron Lopez, O. Gonzalez Perez (Sancti Spiritus, CU)

P390  The signal intensity changes of cervical spinal cord fMRI with electrical stimulation
Z. Shen, Y. Chen, W. Yang, Y. Xiao (Shantou, CN)

P391  The surface fitting approach for correction of magnetisation transfer imaging bias field
G. Xiao, M. Wei, Z. Dai, R. Wu (Chaozhou, Shantou, CN)

P392  Age-related variability of BOLD signal in healthy subjects during optokinetic stimulation
I. Stefanova, T. Stephan, T. Dera, T. Brandt, M. Dieterich (Munich, DE)

P393  A winner shoe in the motor cortex
M.S. Al-Rawi, J.P. Silva Cunha (Aveiro, PT)

P394  Quantitative analysis of brain metabolites in patients with vascular cognitive impairment no dementia
Z. Yang, Y. Liu, Z. Cao, Z. Shen, W. Chen, R. Wu (Shantou, CN)

P395  Increased beta-amyloid deposition in cognitively normal adults is associated with decreased cortical volume

P396  Lateralisation of activation during unilateral and bilateral galvanic stimulation – an fMRI study

P397  Detecting movement volition in disorders of consciousness
F. Wang, X. Hu, D. Yu, M. He, H. Di, S. Laureys (Hangzhou, CN; Liège, BE)

P398  Assessment of extrastriatal dopamine D2-receptors in patients with bilateral vestibular failure

P399  Superficial central nervous system siderosis of unknown origin
A.C. Ribeiro, J. Nunes, R. Veiga, A. Morgadinho (Coimbra, PT)
Regional hippocampal involvement differs across multiple sclerosis clinical phenotypes: evidences from a radial mapping MR-based study
G. Longoni, M.A. Rocca, E. Pagani, B. Colombo, M. Rodegher, A. Falini, G. Comi, M. Filippi (Milan, IT)

Principal diffusion direction in relation to the geometry of the cortical surface in multiple sclerosis
M. Filippi, E. Pagani, P. Preziosa, S. Mesars, B. Colombo, M.A. Horsfield, A. Falini, G. Comi, M.A. Rocca (Milan, IT; Belgrade, RS; Leicester, UK)

Functional connectivity abnormalities and cognitive impairment in relapse-onset MS patients: a whole-brain functional network connectivity analysis
M. Filippi, P. Valsasina, P. Preziosa, G. Riccitelli, V. Martinelli, A. Falini, G. Comi, M.A. Rocca (Milan, IT)

Brain axonal damage in radiologically isolated syndrome
M. Stromillo, A. Giorgio, F. Rossi, M. Battaglini, B. Hakiki, E. Portaccio, G. Malentacchi, C. Gasperini, M. Santangelo, M. Bartolozzi, M. Sormani, M. Amato, N. De Stefano (Siena, Florence, Potenza, Rome, Carpi, Empoli, Genoa, IT)

Asymmetrical hypoperfusion of nuclei caudati in MS patients is in relationship to depression and axonal loss
S. Cihelkova, Z. Baranikova, M. Jung, P. Jinoch, K. Taborska, M. Bojar (Prague, CZ)

Cerebellar peduncles intrinsic damage in multiple sclerosis: association with clinical disability
P. Preziosa, M.A. Rocca, S. Mesars, E. Pagani, T. Stosic-Opincal, J. Drulovic, G. Comi, M. Filippi (Milan, IT; Belgrade, RS)

A voxel-based assessment of cervical cord damage in MS patients
M.A. Rocca, P. Valsasina, D. Damjanovic, S. Mesars, M.A. Horsfield, T. Stosic-Opincal, J. Drulovic, G. Comi, M. Filippi (Milan, IT; Belgrade, RS; Leicester, UK)

Movement disorders
Poster highlight session commences at Poster No. P407 at 11:30
Moderator: K. Bhatia (London, UK)

Public smelling test: a new way to detect hyposmia as an early indicator of Parkinson’s disease
U. Liebetrau, S. Peuckert, O. Hackmann, S. Maune, V. Limmroth (Cologne, DE)
Poster Session 1

Saturday, 10 June 2012

P408 Reproducibility of automatic measurement of substantia nigra from transcranial sonographic images
M. Jelinkova, J. Blahuta, P. Cermak, T. Soukup, P. Bartova, R. Herzig, D. Skoloudik (Havirov, Opava, Olomouc, Ostrava, CZ)

P409 Determinants of delayed diagnosis in Parkinson’s disease
D. Breen, J. Evans, K. Farrell, C. Brayne, R. Barker (Cambridge, UK)

P410 Clinical features of parkinsonism with tremor associated with Scans Without Evidence of Dopaminergic Deficit (SWEDDs)
A. Sacko, V. Moullart, C. Duru, P.E. Merle, O. Godefroy, P. Krystkowiak (Amiens, FR)

P411 Relationship between nigro-striatal dopaminergic dysfunction and affective symptoms in de novo Parkinson’s disease
D. Frosini, L. Kiferle, E. Del Prete, F. Vanelli, D. Volterrani, U. Bonuccelli, R. Ceravolo (Pisa, IT)

P412 Frontal white-matter change underlies cognitive decline in patients with de novo Parkinson’s disease
J. Ding, W. Fan (Shanghai, CN)

P413 The burden of non-motor symptoms in Parkinson’s disease
K.M. Prakash, M.H Yong, J.C. Allen, E.K. Tan (Singapore, SG)

P414 Mechanisms of psychomotor slowing in Parkinson’s disease
C. Duru, T. Lelard, M. Roussel, Y. Yerro, O. Godefroy, P. Krystkowiak (Amiens, FR)

P415 From Parkinson’s disease to Alzheimer dementia
H. Prikrylova Vranova, E. Henykova, M. Kaiserova, M. Vastik, K. Mensikova, J. Mares, P. Hlustik, M. Strnad, P. Kanovsky (Olomouc, CZ)

P416 Visual hallucinations in Parkinson’s disease: possible role of FP
L. Kiferle, D. Frosini, D. Volterrani, S. Mazzucchii, U. Bonuccelli, R. Ceravolo (Pisa, IT)

P417 Orthopaedic complications of patients with Parkinson’s disease in Japanese agricultural district
H. Takada, Y. Oyama, S. Kon (Aomori, JP)

P418 Changes in extracellular noradrenaline levels after amantadine administration in the normal rat cerebral cortex
K. Kannari, E. Ishizawa (Aomori, JP)

P419 Inspiratory stridor as an initial symptom of multiple system atrophy
M. Kaiserova, K. Mensikova, L. Tuckova, P. Kanovsky, M. Vastik (Olomouc, CZ)
Corticobasal syndrome in patients with previous stroke: description of four cases
S. Jesus, M. Caceres, A. Suárez, E. Franco, E. Gil-Neciga, P. Mir (Sevilla, ES)

Consequences of non-compliance in clinically asymptomatic Wilson’s disease patients diagnosed by family screening
K. Dziezyc, A. Czlonkowska (Warsaw, PL)

Case report: paroxysmal movement disorder in acute pontine infarct
A.M. Lascano, N. Wassilew, A. Coeytaux, P. Pollak, I. Momjian-Mayor (Geneva, CH)

Rituximab therapy in a patient with recurrent Hashimoto’s encephalitis, anti-GAD antibodies and progressive encephalomyelitis with rigidity and myoclonus
D. Kassar, S. Damodaram, P. Chand, S. Jones iyadurai (St. Louis, US)

Dispersion of ventricular repolarisation as diagnostic tool in the assessment of autonomic function in Parkinson’s disease
H. Ulvi, L. Özel, R. Demir, G. Özdemir, A. Ertekin, R. Aygül (Erzurum, TR)

General neurology
Poster highlight session commences at Poster No. P425 at 11:30
Moderator: S. Nia (Vienna, AT)

Intravenous immunoglobulin treatment in post H1N1 vaccination narcolepsy – cataplexy
H. Hidalgo, V. Uhl, C.L. Bassetti, U. Kallweit (Asbach, DE; Zurich, CH)

Sleep rebound and neuroprotection in a rat model of focal cerebral ischaemia
B. Gao, A. Hodor, C. Bassetti (Berne, CH)

Comparison of transplantation of bone marrow stromal cells and stem cell mobilisation by granulocyte colony-stimulating factor after traumatic brain injury in rat
M. Marzban, M. Bakhtiary, S. Samavati Cerebrovascular disorders

Clinical course and prognosis of paraplegia due to metastatic spinal cord compression
M. Hara, M. Yamamoto, T. Isaji, R. Kayamori (Saitama, Tokyo, JP)

X-linked adrenoleukodystrophy clinical manifestations in adult female disease carriers
A. Potic, D. Momcilovic-Kostadinovic, A. Rovelli, P. Corti, H.R. Waterham, T. Smiljkovic, J. Potic (Belgrade, RS; Monza, Milan, IT; Amsterdam, NL)
The role of mitochondrial dysfunction in the pathogenesis of Friedreich’s taxia
W. Fadel, W. Fadel, H. Nassar, W. Ibrahim, W. Bahnasy (Tanta, EG)

Neurological complications after cardiac surgery in octogenarians. Is age a limiting factor?

Acute onset of Friedreich’s ataxia mimicking ataxic polyneuropathy
B. Miguel, A. Hernández, J. Domínguez, C. Valencia, A. López, M.A. Del Real (Ciudad Real, ES)

Bilateral papilloedema in patient with rhinorrhoea
C. Valencia, M.J. Gallardo, M.J. Corrales, J. Domínguez, B. Miguel, A. López, M.J. Álvarez, S. Carrasco (Ciudad Real, ES)

Influence of volitional load on the Bereitschaftspotential (readiness potential)
A. Rutschmann, L. Deecke (Vienna, AT)

Chronic meningitis with a diagnosis made only after spinal cord imaging: a series of three cases
E. Theochari, K. Wardle, D. McKee (Manchester, UK)

Fatal suspected progressive multifocal leukoencephalopathy following rituximab treatment for rheumatoid arthritis: a case report
F. Karalis, A. Triantafyllou, N. Tascos, I. Milonas (Thessaloniki, GR)

Behçet’s disease presenting as idiopathic intracranial hypertension
R. Manso-Calderón, P. Cacabelos, C. Torres, M. Corteguera (Salamanca, Avila, ES)

Concomitant neuromyelitis optica and sarcoidosis
P. Depireux, P. Laloux, E. Mormont, Y. Vandermeeren (Yvoir, BE)

A 58-year-old female with encephalopathy and acute axonal and severe autonomic neuropathy of undetermined cause developing ovarian carcinoma and NMDA-receptor antibodies 33 months later

Neuralgic amyotrophy of the tongue: Parsonage-Turner-like hypoglossal nerve palsy?
An autopsy case of neuronal intermediate filament inclusion disease
K. Inoue, H. Fujimura, K. Ueda, T. Matsumura, S. Sakoda, M. Yoshida (Osaka, Aichi, JP)

Charles Bonnet syndrome: a case report and review of the literature
A. Lerario, A. Altieri, A. Ciammola, V. Silani (Milan, IT)

Effects of idebenone on colour vision in patients with Leber’s hereditary optic neuropathy

Hirayama disease associated with inversion of physiological cervical lordosis: a rare differential diagnosis of motor neuron degeneration
A. Merlino, S. Gerevini, M. Rodegher, M.J. Messina, U. Del Carro, V. Martinelli, G. Comi (Milan, IT)

Psychiatric and cognitive symptoms in a patient with adrenal insufficiency
J. Morgado, A.P. Sousa, J. Pena, R. Pedrosa (Lisbon, PT)

Stiff limb syndrome: a case report and diagnostic criteria
S. Syed (Brookline, US)

Tetraparesis after electric shock
F. Sousa, M. Rodrigues, S. Rocha, R. Maré, P. Beleza (Braga, PT)

Neuromyotonia: clinical, electrophysiological and immunological findings of 4 cases

Ethnic differences in syringomyelia in Bashkortostan region of Russian Federation
T. Mirsaev, N. Borisova, R. Magzhanov (Ufa, RU)

Amyloid beta neurotoxicity and neuroprotective role of 17beta estradiol in aging rat brain synaptosomes
P. Kumar, R. Kale, N. Baquer (New Delhi, IN)
Poster Session 1

Sunday, 10 June 2012

11:30 – 12:30

**Preclinical biology**

*Poster highlight session commences at Poster No. P452 at 11:30*

Moderator: P. Annunziata (Siena, IT)

**P452**

*Impact of the anticancer agent cytosine arabinoside administration on neuronal cytoskeleton proteins of the developing rat cerebellum. A sexual dimorphism*

C. Koros, E. K itraki (Athens, GR)

**P453**

*The role of ammonia in the methylmalonic acid-induced neurotoxicity in mice*

L.R. Ribeiro, L.M. Rambo, I.D. Della-Pace, R.S. Scalco, F. Dobrachinski, L.F.F. Royes, M.R. Fighera (Santa Maria, Porto Alegre, BR)

**P454**

*Lipoplysaccharide enhances the spatial memory impairment induced by chronic early postnatal glutaric acid in rats*

F. Rodrigues, M.A. Souza, B.C. Mota, A.P.O. Ferreira, R.S. Scalco, L.F.F. Royes, M.R. Fighera (Santa Maria, Porto Alegre, BR)

**P455**

*Pharmacokinetics and bio-distribution of new Gd-complexes of DTPA-bis (amide) (L3) in a rat model*

G. Yan, Y. Xuan, R. Wu, D.S. Kang (Shantou, CN; Daegu, KR)

**P456**

*Dynamics in fronto-parietal cortical motor network during preparation for reaching*

M. Rakusa, I. Zidar, J. Zidar, P.P. Battaglini, A. Belic (Maribor, Ljubljana, SI; Trieste, IT)
**Poster Session 2**

**Monday, 11 June 2012**

11:30 – 12:30

**Multiple sclerosis: disease modifying treatment II**

Poster highlight session commences at Poster No. P457 at 11:30
Moderator: O. Findling (Berne, CH)

**P457**

**Safety and tolerability of BG-12 in patients with relapsing-remitting multiple sclerosis: results from the phase 3 CONFIRM (Comparator and an Oral Fumarate in Relapsing-Remitting Multiple Sclerosis) study**

E. Havrdova, J.T. Phillips, R.J. Fox, D. Miller, M. Kita, M. Hutchinson, K. Raghupathi, H. Yuan, M. Novas, M.T. Sweetser, V. Vignietta, K.T. Dawson (Prague, CZ; Dallas, Cleveland, US; London, UK; Seattle, US; Dublin, IE; Cambridge, US)

**P458**

**Effect of BG-12 in subgroups of patients with relapsing-remitting multiple sclerosis: findings from the CONFIRM (Comparator and an Oral Fumarate in Relapsing-Remitting Multiple Sclerosis) study**

M. Hutchinson, R.J. Fox, D. Miller, J.T. Phillips, M. Kita, E. Havrdova, M. Yang, R. Zhang, M. Novas, V. Vignietta, K.T. Dawson (Dublin, IE; Cleveland, US; London, UK; Dallas, Seattle, US; Prague, CZ; Cambridge, US)

**P459**

**Analysis of clinical and radiological disease activity-free status in patients with relapsing-remitting multiple sclerosis treated with BG-12: findings from the DEFINE study**


**P460**

**Safety, tolerability and pharmacokinetics of BG-12 240 mg twice daily and three times daily administered with and without aspirin in healthy volunteers**


**P461**

**Dimethyl fumarate suppresses inflammation in vitro via both nuclear factor (erythroid-derived 2)-like 2-dependent and -independent pathways**


**P462**

**Impact on health-related quality of life of teriflunomide treatment by estimating utilities in patients with relapsing multiple sclerosis: results from TEMSO post hoc analysis**

P. O’Connor, A. Briggs, P. Carita, G. Bégo-Le-Bagousse (Toronto, CA; Glasgow, UK; Massy, FR)
Effect of severe renal impairment on the pharmacokinetics and tolerability of teriflunomide
F. Menguy-Vacheron, P. Clot, L. Cai, Y. Su, S. Turpault (Chilly Mazarin, FR; Beijing, CN; Bridgewater, US)

What to expect one year after natalizumab discontinuation in multiple sclerosis patients
F. Sangalli, L. Moiola, L. Ferrè, M. Radaelli, V. Barcella, V. Martinelli, G. Comi (Milan, IT)

Baseline characteristics, treatment efficacy, and serious adverse events in natalizumab-treated MS patients without prior treatment
H. Butzkueven, S. Belachew, L. Kappos, F. Pellegrini, M. Trojano, H. Wiendl, A. Zhang, R. Arnold (Victoria, AU; Liège, BE; Basel, CH; Chieti, Bari, IT; Münster, DE; Weston, US)

JCV epidemiology in MS: prevalence of anti-JC virus antibodies in multiple sclerosis patients

An enhanced ELISA assay for detection of JC virus antibodies in human serum and plasma to support progressive multifocal leukoencephalopathy risk stratification

Innovative management of MS patients on natalizumab using MSDS 3D software
T. Schultheiß, R. Kempcke, T. Ziemssen (Dresden, DE)

Natalizumab-related PML in multiple sclerosis: a case report

Cumulative dose-effect of up to 15 years of subcutaneous interferon beta-1a on clinical outcomes in relapsing-remitting multiple sclerosis: exploratory analysis of patients from the PRISMS study
L. Kappos, E. Verdun di Cantogno, P. Cornelisse, J. Kuhle, B. Uitdehaag (Basel, Geneva, CH; Amsterdam, NL)
Effect of two dosing frequencies of subcutaneous interferon beta-1a on lesion volumes in patients with a first clinical demyelinating event suggestive of multiple sclerosis: results of the phase III REFLEX study extension (REFLEXION)
N. De Stefano, G. Comi, L. Kappos, M.S. Freedman, C.H. Polman, B.M.J. Uitdehaag, E. Verdun di Cantogno, L. Lehr, D. Issard, B. Hennessy, F. Barkhof (Siena, Milan, IT; Basel, CH; Ottawa, CA; Amsterdam, NL; Geneva, CH)

Anxiety and adherence in patients with relapsing multiple sclerosis using RebiSmart™ for self-injection: preliminary results from the MEASURE study
V. Devonshire, A. Feinstein, K. Fortin (Vancouver, Toronto, Montreal, CA)

Diluent halving: a new strategy to optimise interferon beta-1b-related skin reactions?
C. Zecca, N. Yawalkar, C. Staedler, C. Gobbi (Lugano, Berne, CH)

Quality-of-life assessment in patients with MS receiving interferon beta-1a: a comparative longitudinal study of Avonex and its biosimilar Cinnovex

The impact of the MS-CARE patient management programme on adherence and healthcare costs in interferon-beta treated patients with multiple sclerosis

Efficacy analysis of disease-modifying treatments in more than 9000 German patients with MS

Randomised, double-blind, cross-over trial of GTR (generic glatiramer acetate) in healthy volunteers shows similar tolerability and safety to Copaxone®
J. Obery, E. van den Tweel, M. Mulder, G. Voortman, L. Hooftman (Nijmegen, NL)

Interferon beta-1a (Avonex) as treatment option for untreated MS-patients (AXIOM)
C. Kleinschnitz, G. Niemczyk, K. Rehberg-Weber (Würzburg, Ismaning, DE)
**Immunomodulatory treatment of relapsing-remitting multiple sclerosis – the ASSET (Avonex Assessment in Multiple Sclerosis Therapy) study, an observational study in 1354 patients**
M. Marziniak, T. Graf, G. Niemczyk, K. Rehberg-Weber on behalf of the ASSET-study group

**Efficacy of treatment of patients with relapsing-remitting multiple sclerosis with copaxone (glatiramer acetate) evaluated by brain magnetic resonance spectroscopy**
Z. Rozhkova, O. Myalovitska, T. Kobys, I. Lobanova (Kiev, UA)

**The MDA level in CNS and its influence on neurological expression during acute phase of multiple sclerosis experimental model**
S. Ljubisavljevic, I. Stojanovic, D. Pavlovic, D. Sokolovic, I. Stevanovic, J. Ljubisavljevic (Nis, Belgrade, RS)

**Circulating brain endothelial tight junction proteins in patients with multiple sclerosis**
P. Annunziata, C. Cioni, L. De Santi (Siena, IT)

**Cerebrovascular disorders II**
Poster highlight session commences at Poster No. P483 at 11:30
Moderator: O. Bajenaru (Bucharest, RO)

**Cerebral amyloid angiopathy: search for pathogenetic mutations in sporadic cases**
D. Sangalli, B. Corrà, N. Ticozzi, L. Adobatti, V. Silani (Milan, IT)

**Posterior circulation stroke: an underdiagnosed situation in transient global amnesia**

**The importance of stress as trigger factor in childhood migraine: a retrospective study**
D. Dalla Libera, B. Colombo, G. Pavan, G. Comi (Milan, IT)

**C-reactive protein and stroke recurrence in patients with arterial hypertension**
O. Markulan, T. Cherenko (Kiev, UA)

**Stroke and stroke warning signs: have we an enlightened society?**
S. Pires-Barata, R. Miradouro, S. Claro, S. Galo, C. Corzo, S. Lourenço, L. Rebocho (Évora, PT)

**Do triglycerides matter? A correlation between lipid profile and ischaemic stroke subtype**
E. Terecoasa, C. Gavan, O. Ciobanu, C. Tiu (Bucharest, RO)
Poster Session 2  Monday, 11 June 2012

P489  MRI-based localisation of intractable hiccup after acute lateral medullary infarction
M.K. Kim, B.G. Yoo (Busan, KR)

P490  Assessment of tongue motor function in stroke patients

P491  Misinterpretation of clinical symptoms and corresponding cerebral white matter lesions in two young women with Fabry’s disease
P. Flossdorf, M.D. Hesse, R. Sparing (Cologne, DE)

P492  Association of the methylenetetrahydrofolate reductase gene polymorphism with carotid distensibility and intima-media thickness in patients with cerebral infarctions
N.D. Dimitrov, A. Savov, E. Todorova-Dimitrova, I. Velcheva (Sofia, BG)

P493  Surfer’s myelopathy, first European case
M. Matarazzo, A. Castaño Leon, A. Labiano Fontcuberta, J. Zurita Santamaria, A. Ramos Gonzalez (Madrid, ES)

P494  Cardiac diastolic dysfunction is associated with elevation of coagulability in acute cerebral infarction patients

P495  Villaret syndrome: unusual aetiology in a young male patient
D. Popescu, A. Mergeani, C. Laza, A. Rata, O. Bajenaru, F. Antochi (Bucharest, RO)

P496  The relationships between progressive motor deficits and therapy for branch atheromatous disease
W. Takahashi, C. Kijima, S. Yutani, A. Mizuma, S. Takizawa (Isehara, JP)

P497  Study of pH-sensitive magnetisation transfer imaging in hyperacute brain infarction using a clinical 1.5 Tesla scanner
T. Lin, M. Wei, G. Xiao, Z. Shen, P.Z. Sun, R. Wu (Shantou, CN; Boston, US)

P498  Silent brain infarctions do not influence short-term stroke outcome
O. Ciobanu, E.O. Terecoasa, A. Poalelungi, I. Tiu, O. Bajenaru, C. Tiu (Bucharest, RO)
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<th>Time</th>
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<td>11:30</td>
<td><strong>Peripheral neuropathy</strong></td>
<td><strong>Poster highlight session commences at Poster No. P499 at 11:30</strong> Moderator: R. Hughes (London, UK)</td>
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<td>12:30</td>
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<td><strong>Investigation of the cognitive impairment and brain imaging characteristics of 22 patients with congenital cataracts, facial dysmorphism, neuropathy syndrome</strong> T. Chamova, V. Guergueltcheva, M. Raycheva, L. Penev, D. Zlatareva, S. Bichev, S. Cherninkova, I. Tournev (Sofia, BG)</td>
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The long-term efficacy and treatment satisfaction and quality of life in patients with MMN who self-infuse high-dose subcutaneous immunoglobulin therapy independently in the home environment
D. Gosal, M. Braine, A. Woodall, J. Sussman, A. Marshall, R. Jeffrey, D. Gow (Salford, UK)

Post-infectious acute multifocal motor neuropathy or acute motor conduction block neuropathy: can we bypass the diagnosis?
M. Tondelli, L. Codeluppi, S. Contardi, E. Georgoulopoulos, J. Mandrioli, F. Valzania, G. Galassi (Modena, IT)

Subacute demyelinating polyneuropathy associated with B-cell lymphoma and IgM antibodies against myelin-associated glycoprotein responsive to rituximab
P. Banfi, E. Ambrosoni, V. Mariani, M. Maffioli, L. Campiotti (Varese, IT)

Leprous late-onset neuropathy: an uncommon presentation of leprosy
O.J.M. Nascimento, M.R.G. De Freitas, W. Marques, F. Cardoso, C. Pupe (Rio de Janeiro, Sao Paulo, BR)

The clinical spectrum of neurological manifestations in patients with anti-GQ1b antibodies
D. Ajena, T. Cavallaro, G. Fabrizi, M. Filosto, D. Alberti, S. Monaco, S. Ferrari (Verona, Brescia, IT)

Long-term sedation with isoflurane in a case of severe Guillain-Barré-Syndrome
J.C. Purrucker, S. Schönberger, J. Bösel (Heidelberg, DE)

Effect of carbamazepine on frog sciatic nerve
J. Scekic, M. Drecun, S. Vujisic (Podgorica, ME)

Peripheral neuropathy induced by oxaliplatin is associated with genetic polymorphisms
A. Mitsuma, T. Oguri, M. Inada, Y. Ando (Nagoya, JP)

Paroxysmal myoplegia, myopathy and neuropathy of peroneal nerves in a patient with gluten enteropathy
V. Konstantinova, E. Vasileva, N. Muradyan, N. Kolev, M. Daskalov (Sofia, BG)

Local lidocaine treatment in the management of cubital tunnel syndrome
O. Karadas, H. Gul, R. Inan, U. Turk Boru (Erzincan, Istanbul, TR)
Ultrasonographic follow-up in ulnar neuropathy at the elbow
A. Rampen, D. Tavy, P. Wirtz (The Hague, NL)

Development of a computational tool for myelinated fibre morphometry
R. Novas, A.R. Silva, V.P. Fazan, J. Felipe (Ribeirão Preto, BR)

Aortic depressor nerve unmyelinated fibre distribution in long-term experimental diabetes
F. Oliveira, R. Nessler, H.C. Salgado, V.P. Fazan (Ribeirão Preto, BR; Iowa City, US)

Neuropathic causes of pain while sitting
H. Ariño, G. Barraza-Sandoval, M. Espuña, G. Lacima, J. Valls-Solé (Barcelona, ES)

Head-up tilt test and sympathetic skin response in the assessment of the autonomic nervous system in leprosy patients
H. Ulvi, R. Yigiter (Erzurum, Gaziantep, TR)

Relationship between severity of cardiovascular autonomic neuropathy and diabetic complications of type 2 diabetes mellitus
A. Motataianu, R. Balasa, Z. Bajko (Targu Mures, RO)

Increased incidence of Guillain-Barré syndrome after surgery
H. Gensicke, A. Datta, P. Dill, C. Schindler, D. Fischer (Basel, CH)

Dementia I
Poster highlight session commences at Poster No. P525 at 11:30
Moderator: D. Galimberti (Milan, IT)

Risk perceptions in dementia research: a comparison of physicians, researchers in ageing and institutional review board members
G. Bravo, M-F. Dubois, J. Graham, C. Cohen, S. Wildeman (Sherbrooke, Halifax, Toronto, CA)

Young-onset degenerative dementias in a tertiary referral hospital
P. Maiovis, P. Ioannidis, A. Lourbopoulos, D. Karacostas (Thessaloniki, GR)

Framingham Risk Score but not Framingham Stroke Risk Profile is an independent predictor of impaired cognitive function among older people, free of cardiovascular disease
Z. Tufekcioglu, S. Ergecer, R. Krespi, O. Tuncer, R. Tolun, Y. Krespi (Istanbul, TR)
Development of Alzheimer’s disease and recent stress events
E. Reich, C. Torres, E. Arias, M. Carlino, E. Halac (Buenos Aires, AR)

Alzheimer’s disease biomarkers in diagnosis of post-stroke cognitive impairment
M.A. Cherdak, N.N. Yakhno (Moscow, RU)

Asymmetry in regional cerebral blood flow in Alzheimer’s disease: association with clinical features
Y. Uchiyama, M. Iwata, H. Hashida, S. Uchiyama (Tokyo, JP)

Neuropsychiatric syndromes in AD are related to functional connectivity alterations in Default Mode and Salience networks
M. Balthazar, F. Pereira, T. Lopes, E. Silva, B. Campos, N. Duncan, A. Coan, F. Stella, G. Northoff, B. Damasceno, F. Cendes (Campinas, BR)

The Golgi apparatus in Alzheimer’s disease
S. Baloyannis (Thessaloniki, GR)

A double-blind, placebo controlled cross-over trial of adjunction of donepezil to atypical antipsychotics for cognitive impairment in schizophrenia
F. Fadaii (Tehran, IR)

Oral choline intake-related hypersexuality
R.S. Calabrò, F. Cordici, P. Bramanti (Messina, IT)

Parkinsonism-dementia-ALS complex phenotype in an African-American patient
D. Kassar, P. Chand, S. Jones Iyadurai (St. Louis, US)

Cognitive impairment associated with anti-glutamic acid decarboxylase autoimmunity and type 1 diabetes
M. Takagi, E. Mori (Sendai, JP)

Increased pulse wave velocity in patients with type 2 diabetes and cognitive impairment

Neuropsychiatric disorder as presentation of insulinoma
P. Guimarães, A. Veiga, A. Costa, A. Velon, J. Gabriel, M. Silva (Vila Real, PT)

Extracellular amyloid-beta deposits as the major source of the intracellular amyloid cascade, an in vivo study focused on mitochondrial damage
PSYCHOTIC SYMPTOMS IN A FRONTOTEMPORAL DEMENTIA COHORT
S. Rocha, F. Sousa, Á. Machado (Braga, PT)

GENETICS AND EXPRESSION ANALYSIS OF THE TRANSCRIPTION FACTOR SP4 IN PATIENTS WITH ALZHEIMER’S DISEASE AND FRONTOTEMPORAL LOBAR DEGENERATION

11:30 – 12:30

MOTOR NEURON DISEASE
Poster highlight session commences at Poster No. P542 at 11:30
Moderator: M. de Visser (Amsterdam, NL)

INCREASED EXPRESSION OF VALOCIN-CONTAINING PROTEIN IN THE SKIN OF PATIENTS WITH AMYOTROPHIC LATERAL SCLEROSIS. AN IMMUNOHISTOCHEMICAL STUDY

ONSET AND SPREADING PATTERNS OF LOWER MOTOR NEURON INVOLVEMENTS PREDICT SURVIVAL IN SPORADIC AMYOTROPHIC LATERAL SCLEROSIS

GENETIC SCREENING OF C9ORF72 HEXANUCLEOTIDE REPEAT EXPANSION IN 244 ITALIAN PATIENTS AFFECTED BY AMYOTROPHIC LATERAL SCLEROSIS WITH AND WITHOUT FRONTOTEMPORAL DEMENTIA
A. Govoni, R. Del Bo, D. Galimberti, C. Fenoglio, F. Magri, G. Riboldi, M. Ranieri, E. Scarpini, N. Bresolin, S. Corti, G. Comi (Milan, IT)

NEUROPSYCHOLOGICAL PROFILES OF PATIENTS WITH PRIMARY LATERAL SCLEROSIS AND AMYOTROPHIC LATERAL SCLEROSIS
E. Canu, F. Agosta, N. Riva, A. Chiò, V. Silani, A. Calvo, S. Iannaccone, G. Comi, M. Filippi (Milan, Turin, IT)

EVALUATION OF SOD-1 PROTEIN AGGREGATION IN CELL CULTURE MODELS OF ALS
A. Masoumi, J. Loeterman, M. Chattopadhyay, E. Low, A. Pfeiffer, A. Methner, M. Wiedau-Pazos (Los Angeles, US; Düsseldorf, DE)

EVALUATION OF BULBAR IMPAIRMENT IN AMYOTROPHIC LATERAL SCLEROSIS
V. Duek, G.E. Rodriguez, R.C. Rey, R.E. Sica, M.I. Rosa (Buenos Aires, AR)
First symptoms and the pathway to diagnosis for patients with amyotrophic lateral sclerosis: a retrospective analysis of the United States centres for Medicare and Medicaid services: medicare longitudinal claims database
S. Kulke, D. Fitzhenry, L. Grant, D. Martyn, P. Meswani (Weston, Waltham, US)

Prevalence of Amyotrophic Lateral Sclerosis in the south of Brazil

Hirayama disease: effect of neck flexion on somatosensory-evoked potentials and magnetic resonance imaging

Sensory neuropathy of X-linked spinobulbar muscular atrophy
J.Y. Kim, K.D. Park, S.M. Kim, I.N. Sunwoo (Goyang, Seoul, KR)

Genetic correction of spinal muscular atrophy-induced pluripotent stem cells and motoneurons as a disease model and cell source for transplantation

White-matter damage in pure and complicated hereditary spastic paraparesis

Resting state functional connectivity alterations of the sensorimotor network in primary lateral sclerosis
M. Filippi, F. Agosta, E. Canu, A. Calvo, A. Chiò, N. Riva, V. Silani, S. Iannaccone, A. Falini, G. Comi (Milan, Turin, IT)

Cervical cord atrophy in patients with amyotrophic lateral sclerosis: global and voxel-based analyses
11:30 –
General neurology II
Poster highlight session commences at Poster No. P556 at 11:30
Moderator: R. Paterson (London, UK)

P556
Noninvasive positive pressure ventilation for conscious disturbed patients with central nerve system disease to avert extubation failure
H. Shigemasa, S. Michita, H. Satoshi, K. Naoki (Seto, JP)

P557
Diagnostic accuracy and treatment decision-making in disorders of consciousness and the locked-in-syndrome: a survey among German neurologists
K. Kuehlmeyer, E. Racine, N. Palmour, E. Hoster, G.D. Borasio, R.J. Jox (Munich, DE; Montréal, CA; Lausanne, CH)

P558
Transient global amnesia after gastroscopy
S. Cesar, S. Perdigao (Viana do Castelo, PT)

P559
Hypertrophic pachymeningitis as a neurological manifestation of p-ANCA angiitis
I. Xydakis, E. Papageorgiou, K. Psychoyios, V. Koukouni, G. Gkekas (Nikaia, GR)

P560
Psychotic relapses in Behçet’s disease
I. Moreira, F. Teixeira, I. Almeida, E. Santos (Porto, Ponte de Lima, PT)

P561
Quantification of brain metabolite concentration of frontal cortex and posterior cingulate gyrus in the healthy mid-life and elderly persons through proton magnetic resonance spectroscopy
P. Zhang, Z.W. Shen, H.Y. Dai, Y.Y. Xiao, R.H. Wu (Shantou, CN)

P562
Acute effects of alcohol on human brain: a resting-state fMRI study
H.Y. Zheng, L.M. Chen, L.M. Kong, W.B. Zheng (Shantou, CN)

P563
Prevalence of unrecognised neurological diagnoses in patients referred with conversion disorder
P. Rosebush, M. Mazurek (Hamilton, CA)

P564
The broadened spectrum of Caspr2 antibodies: a case of limbic encephalitis with myoclonus and dyskinesias

P565
FFT: an effective tool to prove the degree of neuronal insult after focal cerebral ischaemia in animal model
S. Paul, P. Bhattacharya, A. Pandey, N. Sharma, R. Patnaik (Varanasi, IN)
Eclampsia without pre-eclampsia – a diagnostic challenge
W. Heide, J. Stewen, G. Klefer, Z. Gumienny (Celle, DE)

Case of neurobotulism in pregnant women
A. Soghoyan, M. Baklavajyan, A. Minasyan, G. Manukyan, L. Zubalova (Yerevan, AM)

Congenital skin pedicles, neuronal migration disorder and limb anomalies: case report of disorganisation-like syndrome overlapping with amniotic band sequence

Cranial and extracranial pain pressure thresholds evaluated in chronic and episodic migraine
O. Grosu, I. Moldovanu, N. Diaconu (Chisinau, MD)

Mechanisms for the protective effects of 17-beta-estradiol: relevance to depressive symptoms in Parkinson’s disease
P. Kumar, R. Kale, N. Baquer (New Delhi, IN)

Nonconvulsive status epilepticus in Egyptian children
N. Kitchener, G. Khairalla (Cairo, EG)

Somatic mosaicism for a novel mutation in the MPZ gene
P. Lassuthova, J. Haberlova, J. Kraus, P. Seeman (Prague, CZ)

Psychometric properties of the Motor Praxis Ability Test
K. Ruttanathantong, W. Siritaratiwat, S. Sripetchcharawut, J. Saengsuwan (Khon Kaen, Chiang Mai, TH)

Childhood-onset torticollis
D. Momcilovic-Kostadinovic, A. Potic (Belgrade, RS)

Carpal tunnel syndrome due to tenosynovitis in a four-year-old child
G. Genç, K. Karabacak (Erzurum, TR)

Primary cerebral hydatid cyst in a four-year-old child
G. Genç, T. Hosbul (Erzurum, TR)

Dysgraphia in children with assymmetric bilingualism
S. Golubovic, N. Novakovic (Belgrade, RS)

Pragmatic competence in children with dysgraphia
S. Golubovic, G. Colic (Belgrade, RS)
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<td><strong>Multiple sclerosis: variants and symptomatic treatment</strong></td>
<td><strong>Poster highlight session commences at Poster No. P579 at 17:30</strong></td>
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<td>18:30</td>
<td><strong>Applicability of the revised MRI criteria for multiple sclerosis in patients presenting with clinically isolated syndromes in Russian population</strong></td>
<td><strong>I. Shalenkov, B. Shahov, A. Belova (N. Novgorod, RU)</strong></td>
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<td>P579</td>
<td><strong>The blood adipokines and their association to disability status and progression index in multiple sclerosis: a three-year follow-up study</strong></td>
<td><strong>R. Natarajan, M. Raunio, E. Moilanen, I. Elovaara (Tampere, FI)</strong></td>
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<td>P581</td>
<td><strong>Differences in oligoclonal bands and visual-evoked potentials in patients with radiologically and clinically isolated syndrome</strong></td>
<td><strong>I. Adamec, M. Radmilovic, V. Posavec, A. Skvorc, M. Boskovic, T. Gabelic, I. Milivojevic, B. Barun, I. Zadro, M. Habek (Zagreb, Zadar, HR)</strong></td>
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<td>P582</td>
<td><strong>Age at onset affects quality of life measures in multiple sclerosis</strong></td>
<td><strong>K. Harding, P. Moore, J. Feeney, N.P. Robertson (Cardiff, UK)</strong></td>
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<td>P583</td>
<td><strong>Age of onset effects on relapse rates in multiple sclerosis</strong></td>
<td><strong>K. Harding, P. Moore, M.D. Cossburn, G. Ingram, T.P. Pickersgill, N.P. Robertson (Cardiff, UK)</strong></td>
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<td>P584</td>
<td><strong>HLA-DRB1<em>15 and HLA-A</em>02 are associated with higher risk of developing neutralising antibodies and clinically relevant titres against interferon-beta in multiple sclerosis</strong></td>
<td><strong>J. Link, M. Lundkvist, K. Fink, C. Hermanrud, B. Brynedal, A. Fogdell-Hahn, I. Kockum, J. Hillert (Stockholm, SE)</strong></td>
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<td>P585</td>
<td><strong>Patterns of regional grey-matter atrophy associated with PASAT and SDMT performances in relapsing-remitting multiple sclerosis patients</strong></td>
<td><strong>G. Riccitelli, M.A. Rocca, E. Pagani, V. Martinelli, M. Radaelli, A. Falini, G. Comi, M. Filippi (Milan, IT)</strong></td>
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<td>P586</td>
<td><strong>Grey-matter damage predicts the accumulation of disability and cognitive impairment 13 years later in patients with multiple sclerosis</strong></td>
<td><strong>M. Filippi, M.A. Rocca, P. Preziosa, M. Copetti, G. Riccitelli, G. Comi (Milan, San Giovanni Rotondo, IT)</strong></td>
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Acute disseminated encephalomyelitis in adults
T. Tsironis, D. Kiourtidis, M. Krommyda, D. Tsiptsios, P. Petrou, E. Katsioulis, G. Deretzi, E. Koutras, A. Tichalas, I. Tsiptsios (Thessaloniki, GR)

Idiopathic recurrent myelitis: clinical, laboratory, MRI, and electrophysiological characteristics and risk factor of recurrence

Painful tonic spasm in neuromyelitis optica: incidence, diagnostic utility, and clinical characteristics
S.M. Kim, B. Kim, M. Go, B. Yoon, J. Sung, K. Park, K. Lee (Seoul, Osong, Gyeonggi, KR)

Anti-aquaporin 4 antibody test in idiopathic demyelinating disease of the central nervous system: positive rate and clinical application in Korean cohort of 126 patients
S.M. Kim, B. Kim, B. Yoon, J. Sung, K. Park, K. Lee (Seoul, Seongnam, KR)

NMO-IgG antibody in Neuromyelitis optica: sensitivity and specificity in Iranian patients
M.H. Harirchian, R. Shasia, A. Tafakhri, F. Mohammadi, V. Aghamolaee (Tehran, IR)

Relapsing ADEM versus other inflammatory demyelinating diseases (case study)
E. Darmun, N. Habib (Tripoli, LY)

Prolonged-release fampridine shows consistent efficacy across sub-groups of multiple sclerosis patients
P. Stourac, N. Putzki (Brno, CZ; Zug, CH)

A double-blind, placebo-controlled, study of oral MS14, a herbal-marine drug, on walking ability in multiple sclerosis patients
S.M. Nabavi, M. Naseri, H. Rezaeezadeh, K. Ghareguzli, V. Shayegannejad, M. Ghafarpooor, S. Faghizadeh (Tehran, IR)

Evaluation of gait in patients treated with prolonged-release fampridine in clinical practice
J. Lizrova Preiningerova, K. Kolarikova, E. Havrdoova (Prague, CZ)

The effects of combined model of training exercise in functional indexes, fatigue, quality of life and some biomarkers of MS patients
M.R. Kordi, S.M. Nabavi, S. Khodadadeh, N. Maghsoodi, L. Anoosheh, M. Asadi, B. Sanglagi (Tehran, IR)
**Poster Session 3**

**Monday, 11 June 2012**

P599  
**The effects of Mindfulness-based Stress Reduction programme on physical symptoms, quality of life, and mental health in patients with multiple sclerosis**  
SH Granmayeh, M. Besharat, S.M. Nabavi, S. Sadeghi, A. Imani (Tehran, IR; Buffalo, US)

P600  
**Prevalence of bladder dysfunction in patients with multiple sclerosis**  
S. Papachilleos, S. Katsavos, M.E. Evangelopoulos, E. Andreadou, P. Davaki, A. Rombos, K. Sfangos (Athens, GR)

P601  
**Smoking and disease progression in MS**  
A. Manoucherihi, C. Tench, R. Bibani, J. Maxted, J. Britton, C.S. Constantinescu (Nottingham, UK)

P602  
**Cell free microRNA and multiple sclerosis: possible promising biomarkers?**  

17:30 – 18:30  
**Cerebrovascular disorders III**  
*Poster highlight session commences at Poster No. P603 at 17:30*  
Moderator: J.M. Ferro (Lisbon, PT)

P603  
**Paucisymptomatic post-traumatic bilateral internal carotid artery dissection – case presentation**  
C. Laza, D. Popescu, A.C. Mergeani, O.A. Bajenaru, F.A. Antochi (Bucharest, RO)

P604  
**Clinical features of primary ischaemic stroke in atrial fibrillation patients**  
N. Diaconu, A. Grosu, G. Pavlic, C. Gratii (Chisinau, MD)

P605  
**The relationship between anti-coagulation therapy and acute-stage recurrent embolism in patients with cardiogenic stroke**  

P606  
**Early and late mortality in patients with stroke**  
I.V. Pershyna (Kharkiv, UA)

P607  
**Spectrum of oculomotor disorders in brainstem strokes**  
K. Antonenko (Kiev, UA)
Poster Session 3

Monday, 11 June 2012

P608 Acute basilar artery occlusion: safety and efficacy of different treatment strategies and predictors of good outcome
T. Dornak, R. Herzig, D. Skoloudik, D. Sanak, M. Kuliha, M. Roubec, M. Herman, V. Prochazka, M. Kral, T. Veverka, A. Bartkova, P. Hlustik, M. Kocher, P. Kanosky, J. Zapletalova (Olomouc, Ostrava, CZ)

P609 Combined treatment of acute ischaemic stroke – a case report
P. Kostalova, E. Hurtikova, M. Roubec, M. Kuliha, D. Skoloudik (Ostrava, CZ)

P610 Post rtPA CT brain may not routinely be performed in all stroke patients in limited-resource situation
P. Dharmasarjoa, S. Muengtaweepongsa, U. Boonaurana, P. Dharmasarjoa (Klong Luang, Bangkok, TH)

P611 The clinical implications of lesion patterns in small deep infarcts

P612 Immunological profile of silent brain infarct and lacunar stroke

P613 Time-dependent changes in carotid-femoral pulse wave velocity in patients after ischaemic stroke
M. Kwarciany, D. Gasecki, K. Kowalczyk, A. Rojek, W. Nyka, K. Narkiewicz (Gdansk, PL)

P614 Stent-assisted angioplasty in patients with Moyamoya disease: long-term clinical and angiographic follow-up results

P615 Comparing the relative frequency of prothrombin (G20210A) genemutation in patients with stroke
M. Saadatnia, M. Tajmirriahi, M. Salehi, G. Amini (Isfahan, IR)

P616 Lower cranial nerve palsies as the sole pointers to internal carotid artery dissection
S. Rocha, R. Carvalho, J. Fernandes, C. Ferreira, A. Machado (Braga, PT)
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<td>Migraine mimicker: under the surface an eosinophilic granuloma</td>
<td>D. Dalla Libera, B. Colombo, G. Dalla Costa, R. Messina, D. De Feo, V. Martinelli, G. Comi (Milan, IT)</td>
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<td>P623</td>
<td>R-r interval variation and the sympathetic skin response in the assessment of autonomic function in migraine patients</td>
<td>H. Ulvi, R. Demir, L. Özel, G. Özdemir, A. Ertekin, R. Aýgül (Erzurum, TR)</td>
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The efficacy of intranasal lidocaine application in tension migraine

Cerebral hemodynamic effects of rizatriptan and frovatriptan during migraine attack
B. Öztürk, Ö. Karadas, Ü. Ulas, Z. Odabas (Ankara, Erzincan, TR)

Quantification of cortical thickness and cortical surface area abnormalities in patients affected by migraine
R. Messina, M.A. Rocca, P. Valsasina, B. Colombo, A. Falini, G. Comi, M. Filippi (Milan, IT)

Assessment of neurovascular reactivity at posterior cerebral arteries to visual stimulation in migraine headaches
G. Tekgöl Uzuner, N. Uzuner (Eskisehir, TR)

Tension-type headache in older-aged men and women: clinical and sonographic characteristics
Y. Abramenko, N. Iakovlev, T. Slyusar (Tver, RU)

Pericranial tenderness during attacks in cluster headache patients

Trigeminal pain is suppressed by non-invasive vagal nerve stimulation in a rat headache model
M. Oshinsky, M. Cooper, B. Simon (Philadelphia, Morris Plains, US)

Japanese SUNCT/SUNA – two case reports and review of the literature

New-onset headache in people over 50 years old
A. Pashapour, A. Taheraghdam, P. Pashapour, S. Pashapour (Tabriz, IR)

Yawning headache associated with morbid obesity: presentation of two cases
Y. Kaplan, H. Karaer, S. Kurt, O. Kamilisli (Malatya, Tokat, TR)

Migraine with persistent aura without infarction associated with periventricular heterotopia: a case report
D. Vanghelie, R. Gurgu, N. Ploscutanu, C. Pana (Bucharest, RO)

New daily persistent headache and radiologically isolated syndrome: would you treat?
D. Aguiar de Sousa, R. Gerald, J. Sá (Lisbon, PT)
A case of cluster headache accompanying myoclonus and hemiparesis

Complex neurological involvement in progressive hemifacial atrophy: first case with persistent idiopathic facial pain
G. Dalla Costa, D. Dalla Libera, B. Colombo, V. Martinelli, G. Comi (Milan, IT)

Non-traumatic pneumocephalus with intracerebral air filled cavity. A case presentation
D. Fabo, P. Vegso, H. Richter, A. Papp, A. Sakovics, L. Finta, A. Kamondi (Budapest, HU)

Evaluation of sensory and pain perception and mechanisms of central modulation of pain perception in patients with multiple sclerosis (a pilot study)
M. Hnojcikova, E. Vlckova, I. Okacova, P. Praksova, S. Bursova, J. Bednarik on behalf of CEITEC – Central European Institute of Technology, Masaryk University

The influence of hypophyseal-gonadal system on the formation of tension-type headache in women of reproductive age
H. Derevyanko (Ufa, RU)

Efficacy of sodium oxybate in episodic cluster headache: case report
H. Hidalgo, V. Uhl, A. Gantenbein, P. Sándor, U. Kallweit (Asbach, DE; Zurich, CH)

Small nerve fibres involvement in fibromyalgia
R. Liguori, M.P. Giannoccaro, A. Incensi, V. Donadio (Bologna, IT)

Chronic pelvic pain in irritable bowel syndrome: another burden to deal with
D. Georgescu, C. Georgescu, L.A. Georgescu, M. Simu (Timisoara, RO)

Dementia II
Poster highlight session commences at Poster No. P645 at 17:30
Moderator: A. Macerollo (Bari, IT)

The memory fair: a simple tool to reach populations at risk for developing AD
N. Bregman, O. Moore, K. Regev, B. Irina, N. Giladi, E. Ash (Tel Aviv, IL)

Subtle language in patients with Alzheimer’s disease
M. Rousseaux, P. Dei Cas, S. Connin, A. Tillard (Lille, FR)
Episodic memory differences in Alzheimer's disease, frontotemporal dementia, and dementia with Lewy bodies/Parkinson's disease dementia

Nonverbal memory differences in Alzheimer's disease, frontotemporal dementia, and dementia with Lewy bodies/Parkinson's disease dementia

Frontotemporal dementia and Alzheimer's disease: cognitive and affective theory of mind abilities
C. Sola, F. Benuzzi, M. Molinari, P.F. Nichelli (Baggiorara, Modena, IT)

Verbal and visuoperceptive semantic association in aMCI and AD patients
D. Di Giacomo, L.S. De Federicis, N. Caputi, D. Passafiume (L’Aquila, IT)

Mental rotation in patients affected by dementia
L.S. De Federicis, D. Di Giacomo, D. Passafiume (L’Aquila, IT)

Additive influence of spatial neglect, hemianopia and hemispace on the subjective vertical
A. Saj, J. Honoré, T. Bernati, M. Rousseaux (Geneva, CH; Lille, FR)

Cognitive impairment correlates with ventricular enlargement and event-related potentials (P300) in patients with subjective memory complaints
N. Tevzadze, M. Janelidze (Tbilisi, GE)

Profile of neuropsychological dysfunction in normal pressure hydrocephalus: not just executive dysfunction
P. Bugalho, L. Alves, O. Ribeiro (Lisbon, PT)

Depression and apathy in Parkinson's disease: studying the effect of gender and time of onset

Computerised cognitive training relieves depression and improves executive control in depressive disorder
M. Preiss, E. Shatil, R. Cermakova (Prague, CZ; Jezreel Valley, IL)

Diagnostic criteria for the behavioural variant of frontotemporal dementia – revision of two criteria system
S. Costa, M. Suarez, S. Antón, A. Lheó (Amadora, PT; Barcelona, ES)
Primary progressive dysarthria without aphasia as a variant of frontotemporal lobe degeneration
M. Grznarova, U. Hofstadt-van Oy, S. Wolf, M. Strotzer, P. Oschmann (Bayreuth, DE)

Functional connectivity during resting state functional MR imaging in the semantic variant of primary progressive aphasia

A case of vanishing white-matter disease due to the c.260C>T (p.AlA87Val) EIF2B3 mutation

MRI abnormalities in familial and sporadic Creutzfeldt-Jakob disease
M.-C. Boll, A. Guadamuz, R. Eskenazi, F. Chico Ponce de León, Y. Martinez, M.E. Alonso (Mexico City, MX)

Predictors of effectiveness of the first antiepileptic drug in elderly patients with epilepsy
S. Lukic, M. Spasic (Nis, RS)

Effect of ketogenic diet on electroencephalographic epileptiform discharges during ketogenic diet initiation in adults with refractory epilepsy
J. Janousek, L. Goldman, A. Barber, E. Pavelova, P. Klein (Bethesda, US)

Correlation between ictal EEG and ictal SPECT studies in refractory epilepsy
P. Guimaraes, J. Lopes, J. Ramalheira (Vila Real, Porto, PT)

Non-convulsive status epilepticus: one-year review
P. Guimaraes, A. Costa, R. Chorão, J. Gabriel (Vila Real, PT)

Bone mineral density in adult patients treated with different antiepileptic drugs
S.A. Beniczky, J. Viken, L.T. Jensen, N. Becser Andersen (Glostrup, DK)

Drug-resistant epilepsy: clinical practice of medical therapy in Latvia
O. Zaiferte, D. Pastare, L. Obuhovica, E. Vitols (Riga, LV)
Reorganisation and distribution of tau protein in patients with temporal lobe epilepsy
Y. Lekomtseva, G. Gubina, T. Gorbach, M. Whittington (Kharkiv, UA; Newcastle-upon-Tyne, UK)

Epileptic seizures and electroencephalographic findings in cerebral X-linked adrenoleukodystrophy
A. Potic, D. Momcilovic-Kostadinovic, A. Rovelli, P. Corti, D. Grioni, T. Smiljkovic, J. Potic (Belgrade, RS; Monza, Milan, IT)

Severe hemispatial neglect as a manifestation of seizures and status epilepticus
A.C Schomer, F.W. Drislane (Boston, US)

Systemic lupus erythematosus and status epilepticus: a clinical case
S. Cesar, S. Perdigao (Viana do Castelo, PT)

Familial transient epileptic amnesia. Report of three siblings
I. Rojas-Marcos, A. Fernández, J.A. Caballero, A. Suárez, A. Blanco (Huelva, Sevilla, ES)

Insulinoma presenting as refractory seizure disorder
P. Correia, R. Panchani, A. Gupta, R. Ranjan, C.S. Agrawal (New Delhi, IN)

Evoked potentials and high frequency oscillations in the human hippocampal formation using single pulse cortical electrical stimulation
A. Sakovics, E. Toth, L. Eross, I. Ulbert, D. Fabo (Budapest, HU)

A new model of epilepsy based on organotypic hippocampal slice culture
A. Wahab, K. Albus, U. Heinemann (Karachi, PK; Berlin, DE)

The antiepileptic effect of sodium valproate during different phases of the oestrous cycle in PTZ-induced seizures in rats
J. Kaboutari Katadj, M. Zendehdel, S. Habibian Dehkordi (Shahrekord, IR)

Recurrent symptomatic seizure in postischaemic stroke prophylaxis patients
D.I. Cuciureanu (Iasi, RO)

Neurogenetics
Posterior highlight session commences at Poster No. P678 at 17:30
Moderator: K. Róna-Vörös (Szeged, HU)

Whole exome sequencing in Korean patients with Charcot-Marie-Tooth disease
K. Chung, K. Nakhro, B. Yoon, B. Choi (Gongju, Seoul, KR)
Mutations in aminoacyl-tRNA synthetase genes are rare in Korean Charcot-Marie-Tooth disease patients
K. Chung, Y. Hyun, H. Lee, B. Choi (Gongju, Seoul, KR)

Nenaline myopathy with unusual oculo – musculo – skeletal muscle phenotype due to nebulin deletion
C. Angelini, C. Wallgren-Pettersson, W. Lehtokan, V. Codemo, C. Semplicini, E. Pegoraro (Padova, IT; Helsinki, FI)

Epiretinal membrane: a reversible cause for visual disability in myotonic dystrophy
R.H. Roxburgh, H. Kersten, N. Child, H.V. Danesh-Meyer (Auckland, NZ)

Motor neuron disease as a new manifestation of phenotypic mutation 9185T> C in gene MTATP6
M. Brum, A. Romeiro, P. Santos, R. Matos, R. Guerreiro, J. Pinto Marques (Setubal, PT)

Clinical features of an ataxic patient with an heterozygous variant of APTX gene

Early infantile epileptic encephalopathy type 2 caused by a giant Xp22.2 deletion

Frequency of autosomal dominant mutations in an Italian population of patients with frontotemporal lobar degeneration

Familial Creutzfeldt-Jakob disease carrying a V180I mutation with a MV129 polymorphism
Y. Harigaya, K. Hirayanagi, K. Mizushima, T. Kitamoto (Maebashi, Sendai, JP)

Double hit for the neurons: the coexistence of a novel presenilin 2 mutation and a huntingtin gene CAG repeat expansion
V. Remenyi, G. Miltenberger-Miltenyi, G. Nyiro, T. Kovacs, M.J. Molnar (Budapest, HU; Lisbon, PT)

Visual loss in orbitofacial neurofibromatosis type 1
D.T. Oystreck, J. Morales, I. Chaudhry, I.A. Alorainy, S.M. Elkhamary, T.M.U. Pasha, T.M. Bosley (Riyadh, SA)
Successful pre-implantation genetic diagnosis in isolated sulphite oxidase deficiency due to a novel mutation in the sulfite oxidase gene
M.A.M. Salih, T.M. Bosley, I.A. Alorainy, K.K. Abu-Amero, A. Helani (Riyadh, Al Khobar, SA)

Unusual presentation of early-onset Huntington’s disease, report of a new Italian family
D. Italiano, R.S. Calabrò, P. Bramanti (Messina, IT)

CPEO due to mutations in the tRNA for isolucine: two additional Italian cases

Fibromyalgia and celiac disease
N. Rizhova, S. Kopishinskaya, A. Gustov, A. Repin (Nizhny Novgorod, RU)

Clinical neurophysiology
Poster highlight session commences at Poster No. P693 at 17:30
Moderator: R. Jech (Prague, CZ)

Utility of electrophysiological studies in assessing prognosis and recovery of traumatic spinal cord injuries
D. Mohasseb, A. Abou Alfa, M. Reda, I. Khalil, R. El Gafi (Alexandria, EG)

Prognostic significance of A-waves as an isolated abnormality of nerve conduction studies
E. Vickova, M. Hnojckova, S. Bursova, J. Bednarik (Brno, CZ)

Assessment of the vestibulo-colic reflex by using auditory click and electrical stimulation with alternate current
J.M. Duarte, A. Antik, A.C. Binetti, H.M. D’Onofrio, M.F. Otero, A.C. Bertotti (Buenos Aires, AR)

Heart rate variability and predictive models of autonomic dysfunction after acute spinal cord injury
A. Krstacic, G. Krstacic, D. Gamberger, G. Buljat (Zagreb, HR)

Optical coherence tomography and visual-evoked potentials: which is more sensitive in multiple sclerosis?
Can combination of optical coherence tomography and visual-evoked potentials help in the differential diagnosis of recurrent optic neuritis? A case report
M. Bianco, G. Di Maggio, D. Dalla Libera, V. Martinelli, G. Comi, B. Colombo, L. Leocani (Milan, IT)

Brainstem auditory-evoked potentials in Behçet’s disease and neuro-Behçet syndrome
T. Tombul, T. Gulec, N. Akdeniz (Van, TR)

Non-invasive localisation of somatosensory cortex using high-resolution somatosensory-evoked potentials with mechanical stimulation
A.M. Lascano, F. Grouiller, M. Genetti, L. Spinelli, M. Seeck, C. Michel (Geneva, CH)
Multiple sclerosis: miscellaneous

Poster highlight session commences at Poster No. P701 at 11:30
Moderator: E. Meluzinova (Prague, CZ)

P701
What prompts a switch in disease-modifying therapy beyond first-line therapies?
A. Salter, T. Tyry, D. Belletti, M. Malhotra, R. Marrie, R. Fox, G. Cutter (Birmingham, Phoenix, Walnutport, East Hanover, US; Winnipeg, CA; Cleveland, US)

P702
Vitamin D supplementation in multiple sclerosis patients: considering the safety issues
S.M. Nabavi, Z. Sabet, D. Morsali, M. Aminzadeh (Tehran, IR; London, UK)

P703
Correlation between cognitive dysfunction, fatigue, depression and disability status in a cohort of multiple sclerosis
S.M. Nabavi, S. Tahbaz, Z. Behjati, F. Nourbala, S. Sadeghi, Z. Saeedi, A. Salahesh (Tehran, IR)

P704
Sympathetic skin response in multiple sclerosis and clinically isolated syndrome: a case-control study
M.H. Harirchian, V. Aghamollaii, A. Tafakhori, M. Ghaffarpour, A. Modabbernia, M. Mousavi (Tehran, IR)

P705
Evaluation of sensory and pain perception and mechanisms of central modulation of pain perception in patients with multiple sclerosis (a pilot study)
M. Hnojcikova, E. Vlckova, I. Okacova, P. Praksova, S. Bursova, J. Bednarik on behalf of CEITEC – Central European Institute of Technology, Masaryk University

P706
The autonomic dysfunction and fatigue in initial phase of multiple sclerosis
I. Okacova, E. Vlckova, M. Hnojcikova, Y. Benesova, P. Stourac, P. Praksova, J. Bednarik on behalf of CEITEC – Central European Institute of Technology, Masaryk University

P707
Autologous stem cell transplantation in a patient with multiple sclerosis and multiple myeloma
G. Masi, L. De Santi, A. Bucalossi, F. Toraldo, P. Annunziata (Siena, IT)

P708
Stability of marital status in NARCOMS
S. Cofield, B. Davis, A. Salter, T. Tyry, L. Hornung, R. Marrie, R. Fox, G. Cutter (Birmingham, Phoenix, US; Manitoba, CA; Cleveland, US)
Safety and efficacy of repetitive deep transcranial magnetic stimulation in multiple sclerosis

The fine borders between central nervous system demyelination and definite multiple sclerosis in anti-TNFα–treated ankylosing spondylitis: could it be genetically predisposed?
A. Lourbopoulos, P. Ioannidis, D. Antoniadis, N. Grigoriadis, N. Tascos (Thessaloniki, GR)

Dynamics of saccadic parameters in multiple sclerosis patients with fatigue

Cognitive performance in a cohort of MS patients in comparison to healthy subjects: an assessment with BRB-N from Iran
S. Tahbaz, S.M. Nabavi, Z. Behjati, F. Nourbala, S. Sadeghi, Z. Saeedi (Tehran, IR)

Comparison of self-destructive personality tendencies in MS patients and healthy subjects
S. Tahbaz, S.M. Nabavi, N. Ghorbani (Tehran, IR)

Motor fatigue correlates with cognitive fatigue and depression but not with central motor conduction failure and walking speed in mildly disabled patients with clinical isolated syndromes and multiple sclerosis
U. Hofstadt-van Oy, U. Menge, J. Burschka, P. Oschmann (Bayreuth, DE)

Assessment of gait and balance in early relapsing-remitting multiple sclerosis
E. Degirmenci, L.S. Bir (Denizli, TR)

Familial multiple sclerosis: a clinical, ophthalmic and radiological study

Validation of Brief International Cognitive Assessment for Multiple Sclerosis (BICAMS)
J. Blahova Dusankova, T. Kalincik, E. Havrdova, R.H.B. Benedict (Prague, CZ; Buffalo, US)
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P718 Interrelation between visual impairment and cognitive performance in multiple sclerosis

P719 Psoriasis coexistent with multiple sclerosis: a case series
E. Andreadou, S. Katsavos, S. Papachilleos, M.E. Evangelopoulos, K. Kilidireas, A. Rombos, E. Stamboulis (Athens, GR)

P720 A case of progressive multifocal leucoencefalopathy after discontinuation of natalizumab: when could we let the guard down?
L. Moiola, F. Sangalli, M. Radaelli, V. Barcella, S. Gerevini, V. Martinelli, A. Ghezzi, G. Comi (Milan, IT)

P721 Fatigue characteristics in multiple sclerosis patients living in the northeastern Iran (a low prevalence zone)
R. Jajvandyan, S.M Nabavi, S. Oryan, H. Khani (Tehran, IR)

P722 Cognitive impairment in multiple sclerosis: methods of assessment
S. Petrescu, P. Ionescu, G. Vanghelie, E. Sandu, N. Munjev, C. Panea, M. Manea (Bucharest, RO)

P723 Cognitive deterioration in patients with initial relapsing-remitting multiple sclerosis
K. Genov, M. Dimitrova (Sofia, BG)

P724 Natalizumab-aggravated psoriasis: a case report
J. Millán-Pascual, L. Turpin-Fenoll, M.T. Ortega-León, M. Pacheco-Jiménez, P. Del Saz-Sucedo, B. Espadafor-López, A. Vadillo-Bermejo (Alcázar de San Juan, ES)

P725 Brain reorganisation and temporal activation patterns in early multiple sclerosis patients revealed by estimation of EEG cortical sources and individual MRI
J.J. Gonzalez-Rosa, A. Inuggi, G. Riccitelli, M.A. Rocca, M. Filippi, G. Comi, L. Leocani (Milan, IT)

P726 Peduncular hallucinosis related with multiple sclerosis: a case report
O. Kamisli, Y. Kaplan, S. Kamisli, C. Ozcan (Malatya, TR)

P727 Spatial mapping of brain lesions and cognition in multiple sclerosis
F. Rossi, A. Giorgio, M. Battaglini, M. Stromillo, E. Portaccio, B. Goretti, M. Amato, N. De Stefano (Siena, Florence, IT)
Can the intracranial venous reflux be detected from the transcondylar approach? The results of the fusion imaging study
E. Hurtikova, M. Kuliha, M. Roubec, J. Havelka, R. Herzig, D. Skoloudik (Ostrava, CZ)

Model of MS multicentre multinational research as a translational tool in neurology
C. Santos, L. Thome, P. Lima on behalf of Grupo de modelagem de estudos multicentricos

Cerebrovascular disorders IV
Poster highlight session commences at Poster No. P730 at 11:30
Moderator: P. Kraft (Würzburg, DE)

Acute stroke thrombolysis unit may be associated with more favourable performance measures

Efficacy and safety of intravenous rt-PA in patients with lacunar clinical syndrome
M. López Cuiña, M. Ley Nacher, L. Planellas, I. Navalpotro, E. Muiño, A. Ois, A. Rodriguez, J. Roquer (Barcelona, ES)

Basilar artery thrombosis in a child treated with intravenous t-PA and endovascular mechanical thrombectomy
D. Kondziella, J. Fink, L. Sonneborg, A.P. Born, M. Holtmannspötter (Copenhagen, Roskilde, DK)

First case report of mechanical thrombectomy for acute ischaemic stroke in ovarian hyperstimulation syndrome in pregnancy
C. Tham, Y.L. Tan, K.E. Lee (Singapore, SG)

Sex-related differences in stroke outcome at a University of Maiduguri teaching hospital, northeastern Nigeria
M.M. Watila, Y.W. Nyandaiti, A. Ibrahim, I.D. Gezawa, S.A. Bwala (Maiduguri, NG)

Factors affecting blood glucose level in hyperacute ischaemic stroke. Is mismatch a contributing factor?
S. Gur Ozmen, B. Aksay Koyuncu, S. Tavukcu Ozkan, R. Tolun, Y. Krespi (Istanbul, TR)

The Clock Drawing test as an independent predictor of functional and clinical outcomes in stroke patients
N-terminal pro-brain natriuretic peptide and short-term mortality after stroke
M. Ghabae, M. Pourashraf, A. Meysami, S. Parviz, H. Sadeghian, A. Hadad Sarai, S. Mohebbi, Z. Zeinali Kahaki (Tehran, IR)

A simple risk score for early stroke mortality derived from national institutes of health stroke scale: a discriminant analysis
A. Zandieh, Z. Zeynali Kahaki, H. Sadeghian, M. Pourashraf, S. Parviz, M. Ghaffarpour, M. Ghabae (Tehran, IR)

The effect of middle cerebral artery blood flow parameters for clinical outcome in acute ischaemic stroke
M. Baydemir, G. Tekgöl Uzuner, N. Uzuner (Eskisehir, TR)

High incidence of embolic potential in acute stroke patients with middle cerebral artery occlusion even without cardioembolic sources

Epileptic seizures after stroke – clinical and imaging peculiarities
I. Macavei, I. Huza, A. Macavei, E. Iftenie (Targu Mures, RO)

Predictors of functional outcomes in endovascular recanalisation of acute symptomatic carotid artery occlusions
N.S. Ranawat, S.A. Chaudhary, A.I. Qureshi (Minneapolis, US)

The change in cerebral blood flow characteristics and degree of neurological deficit in acute ischaemic stroke patients with the use of craniocerebral hypothermia
I.A. Sharinova, O.A. Shevelev, I.E. Kalenova, M.V. Tardov (Moscow, RU)

Vascular risk factors and aetiology comparison between cancer and non-cancer patients with acute ischaemic stroke
A.M. Carrilho Romeiro, P. Santos, M. Brum, A. Valadas, R. Guerreiro, J. Pinto Marques (Setúbal, PT)

Patients with different TIA subtypes: stroke risk reduction following urgent assessment and treatment
O. Fartushna (Kiev, UA)

Symptomatic cerebral fat embolism
J. Dunkel, C. Roth, A. Ferbert (Kassel, DE)

Risk factors, recurrence and return to work in various stroke subtypes: insights from Hyderabad Stroke Registry, India
S. Kaul, U. Rani, V. Bandaru, S. Alladi (Hyderabad, IN)
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**P748**

**Aetiological spectrum and outcome of paediatric stroke at a tertiary referral centre in South India**  
S. Kaul, A. Murty (Hyderabad, IN)

**P749**

**Long-term outcome of Neuropath IS System in ischaemic stroke patients from South India**  
S. Kaul, M. Panigrahi, V. Bandaru, J. Rani, S. Alladi (Hyderabad, IN)

**P750**

**Role of perfusion CT in the emergent evaluation of seizures mimicking acute stroke at onset**  
L. Llull, A. Renu, N. Solà, C. Gaig, A. Chamorro, S. Amaro (Barcelona, ES)

**P751**

**Botulinum toxin A related changes of cortical activity in patients suffering from severe hand paralysis with arm spasticity following ischaemic stroke**  

**P752**

**Early experience of using pH-weighted MRI to detect the ischaemic penumbra at 1.5 Tesla**  
W. Yang, Z. Shen, G. Xiao, R. Wu (Shantou, CN)

**11:30 – 12:30**

**Muscle disorders**

**Poster highlight session commences at Poster No. P753 at 11:30**  
Moderator: S. Iyadurai (St. Louis, US)

**P753**

**Peripheral nerves involvement in patients with myotonic dystrophy type 1**  
S. Peric, A. Nikolic, A. Kacar, I. Basta, I. Marjanovic, D. Lavrnic, Z. Stevic, V. Rakocevic-Stojanovic (Belgrade, RS)

**P754**

**Are brain and muscle independently involved in DM1?**  
C. Ferrati, V. Romeo, M. Fanin, A. Nascimbeni, R. Manara, M. Ermani, E. Pegoraro, C. Angelini (Padova, Venice, IT)

**P755**

**Anticipation in families with myotonic dystrophy type 1 and type 2**  
A. Shopova, T. Chamova, V. Guergeltcheva, I. Tournev (Sofia, BG)

**P756**

**High prevalence of vitamin D deficiency in myotonic dystrophies**  
E. Bugiardini, E. Passeri, V.A. Sansone, B. Ambrosi, S. Corbetta, L. Renna, R. Cardani, G. Meola (San Donato, IT)

**P757**

**Genetics of limb-girdle muscular dystrophies in Saudi Arabia**  
Late-onset Pompe disease presenting as asymptomatic hyperCKemia and early respiratory impairment

Expression of chemokines and their receptors in muscle tissues from Duchenne muscular dystrophy patients
B. De Paepe, K.K. Creus, J.J. Martin, J.L. De Bleecker (Ghent, Antwerp, BE)

Lymphotixin beta: an important cytokine in inflammatory myopathy
K.K. Creus, B. De Paepe, J. Weis, J.L. De Bleecker (Ghent, BE; Aachen, DE)

MRI evaluation of respiratory function in patients with the late-onset form of Pompe disease
O. Musumeci, M. Gaeta, E. Barca, A. Mileto, A. Toscano (Messina, IT)

Electrophysiological and immunological aspects in Myasthenia gravis: a retrospective study of 100 Brazilian patients

Evolution of thymoma-associated Myasthenia gravis
A. Nacu, V. Lisnic, L. Munteanu, C. Grosu (Chisinau, MD)

Epidemiology of Autoimmune Myasthenia Gravis in Argentina
C.G. Mazia, M.O. Melcom, V.L. Salutto (Buenos Aires, Junin, AR)

Myasthenia gravis associated with thymolipoma

Clinico – immunological study in patients with ocular and generalised form of Myasthenia gravis
V. Borislavova, S. Cherninkova, I. Tournev (Sofia, BG)

Response of refractory generalised Myasthenia gravis to treatment with rituximab: first report from Kingdom of Bahrain
I.A. Alsharoqi, H. Shaath (Manama, BH)

New quantitative MRI indexes useful to investigate muscle diseases
C. Angelini, M. Fanin, E. Peterle (Padova, IT)
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<td>I. Morozov, S. Belousov, N. Rukina (Nizhny Novgorod, RU)</td>
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<td>Improved walking speed in prolonged-release fampridine timed-walk responders may translate to improvements in functional walking ability</td>
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<td>Combined neurorehabilitative approach of botulinum toxin type A, transcranial direct stimulation and electric stimulation with finger-equipped electrode for post-stroke spastic upper limb hemiparesis</td>
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<td>Noninvasive pH imaging in human brain tumour at 1.5 Tesla</td>
<td>Z.Z. Dai, M.B. Wei, Z.W. Shen, G. Xiao, R.H. Wu (Shantou, CN)</td>
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<td>The distinctive headache of the clivus syndrome as an initial presentation of a prostate carcinoma</td>
<td>R. Manso-Calderón, R. Sánchez-Escribano, S. Prieto (Salamanca, Avila, ES)</td>
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<td>Isolated paresis of the upper limb due to lesion in the hand knob area caused by brain metastasis</td>
<td>A. Folyovich, V. Varga, G. Varallyay, L. Kozak, M. Bakos, E. Scheidl, K. Vadasdi, K.A. Beres-Molnar, E. Horvath (Budapest, HU)</td>
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<td>Calcium channel-binding antibodies in a man with encephalitis, peripheral neuropathy, and a tonsil neuroendocrine tumour</td>
<td>D. Blas-Boria, P. Garciaarena, S. Tummala, I. Tremont-Lukats (San Juan de Puerto Rico, Houston, US)</td>
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Lung tumour cells secrete factors that enhance brain endothelial cell adhesion expression
N.J. Gutowski, S. Rai, J.L. Whatmore (Exeter, UK)

Rare paraneoplastic neurologic syndrome associated with occult breast cancer
A. Sousa, P. Barata, J. Morgado, A. Calado, P. Custódio, J. Pena (Lisbon, PT)

Relevance of occludin to the development of the peritumoural oedema in the brain tumours

Disseminated leptomeningeal hemangioblastomatosis
J. Marques, J. Passos, M. Casimiro, A. Azevedo (Lisbon, PT)

Differential diagnosis of ischaemic and inflammatory myelopathy – a retrospective study
M. Sokolova, J. Malisova, O. Zapletalova, D. Skoloudik (Ostrava, CZ)

Foot drop and urinary retention following disseminated Varicella zoster infection
S. Damodaram, S. Jones Iyadurai (St. Louis, US)

Stroke secondary to neurosyphilitic vasculitis in an HIV/AIDS patient
M. Rickard, S. Iyadurai (St. Louis, US)

Typical clinical presentation and broad spectrum of MRI findings in general paresis due to neurosyphilis in a HIV-negative patient

Intellectual quotient score comparison between HIV-infected and HIV exposed children at a national institute of child health, Lima, Peru
P.C. Martinez, S.M. Montano, L. Kolevick, J. Flores, V. Granados, J. Rodriguez, G. Sal y Rosas, J.R. Zunt (Lima, Callao, PE; Seattle, US)

Clinical isolated syndrome? Brainstem encephalitis caused by Lyme borreliosis: a case report
J. Laskovska, U. Hofstadt-van Oy, S. Schimanski, M. Strotzer, P. Oschmann (Bayreuth, DE)
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What's happening to my wife? Psychological impairment as isolated manifestation of deep cerebral venous thrombosis in aseptic meningitis  
A. Galiana-Ivars, S. Fernández-Menéndez, B. Cabezas-Delamare, L. Redondo-Robles, A. Arés-Luque (Leon, ES)

P798  
Multiple brain abscesses caused by Listeria monocytogenes in a sarcoidosis patient treated with corticosteroids  
A.S. Aleixo Correia, J. Silvestre, S. Calado, R. Miguel, P. Soares, J. Vale, P. Alegria (Lisbon, Loures, PT)

P799  
Imported leprosy with neural involvement: a case report  
M. Pedraza, P. Mulero, A. Hernández-Lain, C. Cruz, M. Piñero, A.L. Guerrero, C. Hinojosa, A. Cabello (Valladolid, Madrid, ES)

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Moderator: D. Straumann (Zurich, CH)

Neuro-ophthalmology

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Pourfour du Petit syndrome due to nodular thyroid hyperplasia  
R. Manso (Salamanca, ES)

P801  
Pseudo-Horner's syndrome  
J. Pinto, J. Carvalho, C. Nunes, C. Paiva, R. Veiga, R. Pais (Coimbra, PT)

P802  
A man who sees static  
F. van der Toorn, T. Schreuder (Heerlen, NL)

P803  
High hyperopia and demyelinating disease: is there any association or just a coincidence?  

P804  
A study of vestibular-somatosensory interaction with a near-infrared spectoroscopy  
H. Yamamoto, M. Iida (Isehara, JP)

P805  
Deformable anatomic templates embed information on eye movement disorders into brain images  
V. Kumar, L.A. Hayman, A. Wong, R. Tang, J. Schiffman (Houston, US; Toronto, CA)
# List of Chairpersons

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**Instruction for Authors**

The Speakers’ Service Centre (SSC) is centrally located on the second floor. All lecture rooms will be equipped with a computer and a data projector (beamer) for PowerPoint presentations. PowerPoint presentations must be handed in via CD-ROM, USB compatible memory stick, or via your own laptop at the SSC before the lecture.

It is essential for the smooth running of the congress that all speakers **hand in their PowerPoint presentations at least one hour before the beginning of the session**. Speakers will have the opportunity to check their presentations on PCs available in the SSC.

Posters will be displayed for **one half-day**.

Following the successful introduction of Poster highlight sessions at ENS, we will once again offer these sessions to enliven the poster display. Authors are kindly asked to be present for the duration of the poster session in which their posters are on display. All authors are requested to mount and remove their posters at the times mentioned. The same poster boards will be used for the following session. Posters still hanging at the end of the removal time will be disposed of by the organisers.
## Instruction for Authors

<table>
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<tr>
<th>Poster Session</th>
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<th>Session Time</th>
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<td>P336 – P456</td>
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<td>11:30 – 12:30</td>
<td>08:00 – 09:00</td>
<td>16:00 – 16:30</td>
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<td>2</td>
<td>P457 – P578</td>
<td>Monday, 11 June 2012</td>
<td>11:30 – 12:30</td>
<td>09:00 – 10:00</td>
<td>13:00 – 13:30</td>
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<td>3</td>
<td>P579 – P700</td>
<td>Monday, 11 June 2012</td>
<td>17:30 – 18:30</td>
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<td>4</td>
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<td>11:30 – 12:30</td>
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**Poster measurements**

Width: 90 cm  
Height: 135 cm (vertical presentation)

**Poster desk**

The poster desk is located in the poster area. Material to mount your poster will be available there.

**Poster highlight session**

Poster highlight sessions require the use of headphones which can be collected in the poster area. Each poster highlight session is allocated a channel and the channel number is displayed at the start of each walk.

**Video presentation**

Authors who have requested a video (DVD) to accompany their poster, will have equipment with monitor at their disposal within the poster area.

**Publication**

All accepted abstracts will be published in the “Journal of Neurology” which will be available at the meeting. Abstract texts can be viewed on the congress website as from the start of the conference: www.ensinfo.org.
### General Information (in alphabetical order)

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<td>App</td>
<td>Navigate through the entire ENS 2012 programme from your iPhone, iPad, Android or Blackberry. View sessions by day and category, access the abstracts being presented, locate exhibitors and create your own itinerary to fully exploit your congress experience.</td>
</tr>
<tr>
<td>Award</td>
<td>In memory of Prof. PK Thomas the ENS is pleased to announce the <strong>PK Thomas Award</strong> for the best paper on peripheral nerve disorders. Prof. PK Thomas graciously left an annual sum of € 500.– for awarding the best paper on peripheral nerve disorders. The papers will be evaluated during the ENS meeting and the prize winner will be notified in writing after the congress.</td>
</tr>
<tr>
<td>Badges</td>
<td>Access to all scientific sessions is only possible with your personal badge which you receive at the registration desk in Prague. Please always wear your badge. € 30.– will be charged for replacement of lost badge.</td>
</tr>
<tr>
<td>Cash machine</td>
<td>An ATM/cash machine is located outside entrance 4 in the bank.</td>
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| Certificates  | **Certificates of attendance**
Certificates of attendance are available as from Monday afternoon onwards at the Pre-Registration desks. Changes of certificate due to incorrect submission of names and/or addresses will be charged € 10.–

**CME certificates**
To claim your CME credits, please fill in the online evaluation form at the congress website www.congrex.ch/ens2012 after the meeting. In order to do so, please use your personal access code, which is given to you on a voucher with your badge. After completing the questionnaire you can print the certificate indicating the CME credits. |
| Cloakroom     | A cloakroom is available on the ground floor near the escalators during the secretariat opening hours, and can be used free of charge.                                                                         |
| Coffee breaks | Morning and afternoon coffee breaks are included in the registration fee and are served in the exhibition area.                                                                                         |
Throughout the meeting, ENS staff will be available at the ENS booth to answer questions you may have or to deal with any matters concerning the ENS.

ENS Business Meeting 2012 for all ENS members

Date and time: Tuesday, 12 June, 11:00 – 12:00
Location: Room D

The final programme is also available on the congress website www.congrex.ch/ens2012.

Congrex Travel Ltd.
Tel: +420 261 177 026
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Congrex Travel is present at a desk during the meeting. For assistance onsite, please contact the hotel counter close to the secretariat.

Star Alliance

The meeting organiser cannot accept liability for personal injuries sustained, or for loss or damage of property, either during, or as a result of the meeting. Please check the validity of your own insurance.

Several internet terminals are located in the exhibition area and are available to all congress participants during the opening hours of the exhibition.

The official language of the congress is English. No simultaneous translation is provided. The national language of the Czech Republic is Czech, although English is widely spoken.

Light lunch is included in the registration fee and is served in the exhibition area. First come first serve.

Please be aware that mobile phones must be switched off during the sessions.

A media centre with wireless internet access is available to registered journalists. Press representatives must register at the secretariat showing their official press accreditation. The Media Centre is located on the second floor (see floor plan page 157).
General Information

Speakers’ Service Centre (SSC)

There is a SSC connected to all lecture rooms located on the second floor. All speakers are asked to hand in their PowerPoint presentations at least one hour before their lecture at the SSC. Please refer to page 141 for more details.

Teaching Course Manuscripts

All teaching course manuscripts can be accessed online after the congress. Please go to the congress website www.congrex.ch/ens2012 (menu Scientific Programme), where you can log-in with your email address and the password: ENS2012!

Transportation tickets

Free transportation tickets are available at the Congress Secretariat which can be used for the metro, bus and trams in Prague during the duration of the conference.

Venue

The 22nd ENS annual meeting takes place at the Prague Congress Centre (www.kcp.cz).

It is situated in a unique location with a beautiful panoramic view of Prague with its large parks, the Vltava River and Prague Castle. Prague Congress Centre is right next to Vyšehrad metro station (line C), three stops south of down-town Prague (can be reached within 8 minutes).

Address during the conference:

ENS 2012
Prague Congress Centre (PCC)
5. května 65
140 21 Prague 4
Czech Republic
Tel: +420 261 177 024

Visa requirements

All foreign visitors to the Czech Republic must possess a passport valid for at least the next six months. Please note that visa application procedures can take up to two months and that it is not possible to obtain a visa at the Prague Airport. For further information, please have a look at the website of the Ministry for Foreign Affairs: www.mzv.cz

WLAN

Free wireless-LAN access is offered in the exhibition area.
As the official airline network for ENS 2012, we’d like to thank you for choosing the Star Alliance™ network and hope that all goes really well for you here today.

Whilst you concentrate on the day’s events, we hope you’ll consider us the next time you need to attend a conference.

With over 20,500 flights a day to 1,293 airports across 190 countries, our 25 member airlines will extend a wide choice of flights to any future conference you’re planning to attend. And no matter which of those airlines’ frequent flyer programmes you belong to, you can earn and redeem miles across all of them.

So the next time you want to concentrate all your energies on your conference, we hope you’ll decide to leave the travel arrangements to us.
## Registration Information

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<tr>
<td>Junior member ENS</td>
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<td>€ 340.–</td>
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<tr>
<td>Junior non-member**</td>
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<td>€ 335.–</td>
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* Colleagues in training, born after 1 January 1977, including subscription to the Journal of Neurology for one year (copy of valid passport obligatory)

** Colleagues in training, born after 1 January 1977, excluding subscription to the Journal of Neurology (copy of valid passport obligatory)

*** The fee for a registered accompanying person includes the Welcome Reception on 9 June 2012. Please note that due to new regulations, accompanying persons do not have access to the industrial exhibition anymore.

### Registration Fee Teaching Courses

<table>
<thead>
<tr>
<th></th>
<th>Up to 22 March 2012</th>
<th>As from 23 March 2012</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Half day</td>
<td>Full day</td>
</tr>
<tr>
<td>Member ENS</td>
<td>€ 20.–</td>
<td>€ 35.–</td>
</tr>
<tr>
<td>Non-member</td>
<td>€ 35.–</td>
<td>€ 65.–</td>
</tr>
<tr>
<td></td>
<td>Half day</td>
<td>Full day</td>
</tr>
<tr>
<td>Member ENS</td>
<td>€ 35.–</td>
<td>€ 65.–</td>
</tr>
<tr>
<td>Non-member</td>
<td>€ 50.–</td>
<td>€ 85.–</td>
</tr>
</tbody>
</table>
Registration Information

Workshops and Practical Sessions

<table>
<thead>
<tr>
<th></th>
<th>Up to 22 March 2012</th>
<th>As from 23 March 2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Member ENS</td>
<td>€ 15.–</td>
<td>€ 20.–</td>
</tr>
<tr>
<td>Non-member</td>
<td>€ 20.–</td>
<td>€ 25.–</td>
</tr>
</tbody>
</table>

Registration is limited and on a “first come – first serve” basis.

Teaching courses and workshops during the ENS Meeting are subject to ENS Congress registration.

Please note that certificates for teaching course participation are only given out during the respective courses and cannot be issued afterwards.

Subscription to the Journal of Neurology

Should the Meeting participant not be a member of ENS, he/she will receive a temporary subscription to the Journal of Neurology for the year 2012. This free e-subscription is valid for all issues of 2012. The electronic access codes will be emailed in August 2012.

Opening hours

<table>
<thead>
<tr>
<th>Secretariat and Registration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Saturday, 9 June 2012, 08:00 – 20:00</td>
</tr>
<tr>
<td>Sunday, 10 June 2012, 07:30 – 18:00</td>
</tr>
<tr>
<td>Monday, 11 June 2012, 07:15 – 18:00</td>
</tr>
<tr>
<td>Tuesday, 12 June 2012, 07:15 – 17:30</td>
</tr>
</tbody>
</table>

Responsibility

The participant acknowledges that he/she has no right to lodge damage claims against the organisers, should the holding of the Meeting be hindered or prevented by political events (such as acts of terrorism, danger of hostility, war etc.) or by unexpected economic events or generally by force majeure, or should the non-appearance of speakers or other reasons necessitate programme changes. With registration, the participant accepts this proviso.

Confirmation

Please present the confirmation you received at the registration desk as proof of your registration.

Cancellation/ name change

Once the participant registers for the ENS 2012, he/she is obliged to pay. Refund of fees, less 25% administrative charges, can be applied for in writing up to 2 May 2012. After this date no refund will be possible. For any change of names, a fee of € 30.– will be charged.

On-site changes of name badges due to incorrect submission of names and/or address data will be charged € 10.–
Social Events

Saturday, 9 June 2012

Welcome Reception 19:30 – 21:00

The Welcome Reception will take place at the Prague Congress Centre, which enjoys a unique location on one of Prague’s hills, and which is one of the dominant features of the capital of the Czech Republic. From here you can view the wonderful panorama of Prague over the Vltava and the surrounding widespread parks, re-ecting the silhouette of Prague Castle and its many steeples and towers of churches, cathedrals, palaces, and the ancient buildings of the nearby historic centre. A traditional Czech Folklore Group from southern Moravia will offer entertainment with their folk music and dance, while you can enjoy delicious snacks and drinks.

All participants, exhibitors and registered accompanying persons are invited to the reception. Please wear your badge.

Monday, 11 June 2012

Banquet 20:00

The ENS 2012 Banquet will be held at the St. Agnes Convent, a former monastery which was built in the 13th century. The convent is the oldest Gothic building in the Czech Republic and is located right in the heart of the Prague Old Town. In this superb setting, you will have the opportunity to relax and network with friends and colleagues, while enjoying an aperitif and a delicious dinner in true medieval times style. A string quartet will round off this convivial evening.

Onsite tickets: Please ask at the secretariat desk whether there are still tickets available. Tickets are sold on a first come first serve basis and cannot be guaranteed. Access to the venue without a ticket is not possible.

Price: € 105.– per person

Way description
At Vyšehrad take the metro line C in downtown direction, four stops to station Florenc. At Florenc take the bus number 207 in direction Staromestska, four stops to Nemocnice na Frantisku station. The entrance to the venue is across the street. The journey takes about 20 minutes. City maps are available at the tour desk in the conference centre.

Address
Na Františku 811/10
Tours

Saturday, 9 June 2012

Prague: Historical vs. Modern

This tour will show you the two opposite faces of Prague. It will start at the Vyšehrad Castle, which was built in the 10th century on a hill over the Vltava River. Situated within the castle area is the St. Martin rotunda (oldest in Prague) the Basilica of St. Peter and St. Paul, as well as a cemetery, containing the remains of many famous people from the Czech history such as Antonín Dvorák and Bedrich Smetana. After visiting these historical sites, the tour leads you further to the most modern building in Prague: The Dancing House built by F. O’Gehry and V. Milunić. Originally named Fred and Ginger (after Fred Astaire and Ginger Rogers), the house resembles a pair of dancers. Later on, you will visit the Zizkov TV tower. In clear weather it undeniably offers the best sightseeing view in Prague.

Price: € 49.– per person
(including coach transfer, English-speaking guide and entrance fees).

Meeting time and point: 14:45 at the tour desk;
Prague Congress Centre
Monday, 11 June 2012

Grand Tour of Prague  
15:00 – 19:00

The insightful historical tour lets you enjoy the city’s most famous sights. The tour starts at Prague Castle (Hradcany), one of the most important cultural institutions in the Czech Republic. According to the Guinness Book of World Records, the Prague Castle is the largest castle complex in the world, with an area of 70,000 m². The castle is a UNESCO World Heritage Site and consists of a large-scale composition of palaces and ecclesiastical buildings (from Roman through Gothic modifications). You will visit the St. Vitus Cathedral and continue by foot with the “Royal Route”, the former promenade of kings in direction downtown. Crossing the famous Charles Bridge you will continue to discover remarkable monuments in the Old Town area. This remarkable journey ends in front of the Old Town City Hall with its extraordinary astronomical clock.

Price: € 43.– per person  
(including coach transfer, English-speaking guide and entrance fees).

Meeting time and point: 14:45 at the tour desk; Prague Congress Centre

Note for all tours  
Tours are based on a minimum of 20 participants. If a tour does not take place due to insufficient numbers, the ticket will be reimbursed in full. Otherwise tickets for excursions are non-refundable. Please note that all return times are approximate because they depend on traffic conditions. On-site requests for tours are welcome but cannot be guaranteed.
Useful Information about Prague  (in alphabetical order)

City of Prague

Prague, the capital of the Czech Republic, reflects its dramatic history, dating back more than a thousand years, in the beauty and variety of its buildings and monuments. The historical centre, which is divided into five areas, spanning both banks of the Vltava River and covering 866 hectares, was listed in the UNESCO World Cultural and Natural Heritage Register in 1992. Prague is a thriving modern city with narrow streets characterised by winding alleys and magnificent examples of all architectural styles, with charming hotels and excellent restaurants offering traditional Czech and international cuisine. Enchanting pubs, trendy clubs, many museums and classical concerts display its diversity – definitely a nice place to be!

For further information please visit the following website: www.praguewelcome.cz

Climate

Average June temperature: 18°C/64°F. The summer can be rainy at times – especially in June. But often the rain comes as afternoon summer showers. Consider bringing a light jacket, umbrella, hat, sunglasses and sunscreen. The current weather conditions are available at www.weather.com.

Currency

All official Meeting prices are indicated in Euro (€). The official currency in the Czech Republic however is the Czech Crown (CZK). Banknotes are circulated in values of 5 000, 2 000, 1000, 500, 200, 100 and 50 crowns with coins valued as 50, 20, 10, 5, 2 and 1. Exchange offices are located throughout the city centre (exchange offices, banks, post offices). For up-to-date exchange rates please visit www.cnb.cz
Congrex is a proud partner of the ENS conference 2012.

We provide a tailored offering for our clients’ needs when organising meetings, events and conferences, and also deliver association management and travel & accommodations services.

Established in 1982, we serve a variety of industries from our many offices, utilising our network of partners globally. Our extensive client base includes national and international associations, governmental organisations and corporations.

Let’s meet, visit www.congrex.com
## Useful Information about Prague

<table>
<thead>
<tr>
<th><strong>Electricity</strong></th>
<th>The Czech Republic uses a 220 volt 50 Hz system. Sockets are European standard and plugs are three-prong grounded.</th>
</tr>
</thead>
</table>
| **Emergency phone numbers** | Emergency call 112  
Ambulance service phone 155  
Police phone 158  
Fire emergency phone 150  
Municipal police phone 156 |
| **Lost property office** | Prague 1, Karoliny Svetle 5  
Tel: +420 224 235 085 |
| **Tour desk** | A tour desk is located next to the Congress Secretariat. Here you can obtain city maps and tourist information. |
| **Restaurants** | Czech cuisine is typical of Middle European gastronomy. Typical Czech gastronomy means roasted pork with dumplings and sauerkraut, potato pancakes, plum dumplings and bilberry cakes and, of course, Czech drinks – primarily beer and first-rate wines from South Moravia. People usually have lunch between 12:00 and 14:00 and dinner between 18:00 and 21:00. |
| **Shopping** | Most shops in Prague are open from 09:00 to 18:00, Monday through Saturday. Shops in the city centre are usually open from 09:00 to 20:00, Monday through Sunday. |
| **Tipping** | Service is usually included in the bill in bars and restaurants but tips are welcome. If you consider the service good enough to warrant a tip, we suggest about 5 – 10%. |
| **Time zone** | The Czech Republic is on Central European Time – Greenwich Mean Time (GMT) + 1 hour. From April to October it is summer time, i.e. GMT + 2 hours. |
Travel to and within Prague – How to reach Prague Congress Centre

Arriving by plane

The Prague-Ruzyně International Airport is located north-west of the city. Please note, that there is no direct metro connection to and from the airport.

Take bus number 119 (which runs every 10 – 15 minutes outside the terminal) to Dejvická metro station, line A. Tickets can be purchased on the bus for approx. 26 CZK (1 €). A simple metro ticket costs 18 CZK (0.60 €).

From Dejvická metro station, take the service in direction Skalka to the Muzeum stop. At Muzeum, change to line C in direction Háje and off at Vyšehrad. The congress centre is located right next to the metro stop. This combined bus-metro service will take you to the Prague Congress Centre in about 45 minutes.

By taxi the journey will take about 25 minutes depending on the traffic conditions. The approximate price for a taxi journey is 600 CZK (25 €).

Arriving by car

The Prague Congress Centre can easily be reached by car. From the north along the D8 motorway (from Dresden), from the south along the D1 motorway (from Brno, Vienna or Bratislava), from the west along the D5 motorway (from Rudná) and from the east along the D11 motorway (from Hradec Králové).
Travel to and within Prague – How to reach Prague Congress Centre

<table>
<thead>
<tr>
<th>Arriving by car (cont.)</th>
<th>There is a car park nearby the Prague Congress Centre. The parking fee is not included in the registration fee, but tickets can be bought directly at the parking area at a cost of 50 CZK/hour (approx. 2 €). 24 hours tickets are also available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arriving by train</td>
<td>At the central station (Hlavní Nádraží) take metro line C, direction Háje and get off at Vyšehrad. The Prague Congress Centre is located next to the metro station. The journey takes about 5 minutes.</td>
</tr>
<tr>
<td>Arrival by bus</td>
<td>The city's main bus terminal is Florenc situated in the eastern part of the New Town. From Florenc bus station travel four stops by metro line C, direction Háje and get off at Vyšehrad.</td>
</tr>
<tr>
<td>Public transportation</td>
<td>The city of Prague has a good infrastructure and is well accessible by metro, bus and tram. All ENS participants can use the public transportation system for the duration of the congress free of charge. Vouchers are available at the congress secretariat on the first floor. The Prague metro network consists of three lines (A,B,C) and operates daily from 05:00 to 24:00. From the city centre (Wenceslas Square), the Prague Congress Centre can be reached by metro line C in direction Háje. Exit at the second stop at Vyšehrad.</td>
</tr>
<tr>
<td>Taxi service</td>
<td>The nearest tram stop to the Prague Congress Centre is Svatoplukova. It is located in Nusle, directly underneath Nusle Bridge (Nuselský most). Trams number 7, 18 and 24 stop here. After getting off the tram walk under the railway line and up the steps through the park straight to the congress centre which you will be able to see above you.</td>
</tr>
<tr>
<td></td>
<td>We recommend the following taxi companies: Profi Taxi: +420 844 700 800 AAA Taxi: +420 222 333 222</td>
</tr>
</tbody>
</table>
List of Exhibitors and Exhibition Floor Plan

112  Actelion Pharmaceuticals, Allschwil / CH
111  Biogen Idec, Zug / CH
125  BioMarin Europe Ltd., London / UK
104  Cadwell, Kennewick, WA / US
110  Carefusion Nicolet, Middleton / UK
128  EAYNT European Association of Young Neurologists and Trainees, Szeged / HU
126  EFNS European Federation of Neurological Societies, Vienna / AT
120  Electrical Geodesics Inc., Eugene, OR / US
114  ElectroCore, Morris Plains, NJ / US
102  ENS European Neurological Society, Basel / CH
Grifols International S.A., Barcelona / ES
Karger Publishers, Basel / CH
Merck Serono, Geneva / CH
Moleac, Singapore / SG
Novartis Pharma AG, Basel / CH
Sanofi-Aventis Genzyme, Naarden / NL
Serono Symposia International Foundation, Rome / IT
SOMNOmedics GmbH, Randersacker, DE
Wiley Blackwell, Oxford / UK
Wisepress Ltd., London / UK
Satellite Symposia

Saturday, 9 June 2012

12:20 – 13:20
Room A

Integrating Experience and Innovation

(page 21)

Satellite Symposia

Sunday, 10 June 2012

12:00 – 13:30
Forum Hall

Committed to neurology – advancing treatment of neurodegenerative conditions: ALS and MS

(page 30)

12:00 – 13:30
Room A

Many dimensions of Parkinson’s Disease: beyond the motor symptoms

(page 31)

12:00 – 13:30
Room B

The case of Niemann-Pick type C (NP-C): from suspicion to evidence-based therapy

(page 31)

17:30 – 19:00
Forum Hall

Get on track, stay on track: patient journeys in MS

(page 33)
Satellite Symposia
Monday, 11 June 2012

Refer to Scientific Programme for full session details

11:45 – 13:15
Forum Hall
Growing clinical experience with oral fingolimod in MS
NOVARTIS

(page 37)

11:45 – 13:15
Room A
What neuromyelitis optica is telling us about multiple sclerosis

(page 38)

17:30 – 19:00
Room A
Addressing unmet needs in rare diseases and multiple sclerosis – diagnostic challenges and novel treatment strategies
GENZYME
A SANOFI COMPANY

(page 40)
Sunday 10 June 2012, 12:00–13:30
Room B, Prague, Czech Republic

PROGRAMME

The case of Niemann-Pick type C (NP-C): From suspicion to evidence-based therapy

Satellite Symposium on the occasion of the 22nd ENS Congress with educational financial support provided by Actelion Pharmaceuticals Ltd

Chairperson: Frédéric Sedel (Paris, France)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:00 – 12:05</td>
<td>Welcome &amp; Introduction</td>
<td>Frédéric Sedel</td>
</tr>
<tr>
<td>12:05 – 12:25</td>
<td>Identifying the suspects of NP-C</td>
<td>Alessandro Burlina (Bassano del Grappa, Italy)</td>
</tr>
<tr>
<td>12:25 – 12:45</td>
<td>Differential diagnosis: Compiling the evidence for NP-C</td>
<td>Charles M Lourenço (Ribeirão Preto, Brazil)</td>
</tr>
<tr>
<td>12:45 – 13:05</td>
<td>Slowing the progression of NP-C: Treatment options</td>
<td>Larry A Abel (Melbourne, Australia)</td>
</tr>
<tr>
<td>13:05 – 13:25</td>
<td>Evaluating treatment success: Markers to monitor NP-C</td>
<td>Frédéric Sedel</td>
</tr>
<tr>
<td>13:25 – 13:30</td>
<td>Discussion &amp; Conclusions</td>
<td>Frédéric Sedel</td>
</tr>
<tr>
<td>13:30</td>
<td>Close</td>
<td></td>
</tr>
</tbody>
</table>

Actelion booth and Symposium location

Please visit us at booth no. 112

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- Locate exhibitors
- Synchronise sessions with your personal calendar
- Access interactive map and directory

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**Twenty-second Meeting of the European Neurological Society**

**Final Programme**

9 – 12 June 2012

Prague, Czech Republic

www.ensinfo.org

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**Twenty-third Meeting of the European Neurological Society**

8 – 11 June 2013

Barcelona, Spain

Neurology: Learning, knowledge, progress and the future

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**Key symposia:**

- Presidential Symposium (Sleep and the pathophysiology/outcome of neurological disorders)
- Advances in stroke prevention and treatment
- Parkinson and Parkinsonism
- Personalised treatment in MS
- Recent advances in Alzheimer and other dementias

The congress programme includes 23 teaching courses, 9 workshops, practical sessions in clinical neurophysiology, interactive case presentations and selected scientific sessions in the form of oral and poster sessions.

**Abstract submission deadline:** 18 January 2013

**Early registration deadline:** 20 March 2013

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**For further information please contact:**

ENS 2013, c/o Congrex Switzerland Ltd.
Peter Merian-Strasse 80, 4002 Basel / Switzerland
Phone +41 61 686 77 77  Fax +41 61 686 77 88
Email basel@congrex.com

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