

## ICCN2010 Scientific Program (As of June 17, 2010)

### Named Lectures

- NL1 Adrian lecture  
 October 29 (Friday) 14:00-14:50  
 Venue A  
 Mauguiere F (Lyon) Functions of insula  
 Chairperson: Tanaka T (Asahikawa)
- NL2 Berger lecture  
 October 30 (Saturday) 14:00-14:50  
 Venue A  
 Luders HO (Cleveland) Epilepsy and cortical functions  
 Chairperson: Kato M (Fukuoka)
- NL3 Kugelberg lecture  
 October 31 (Sunday) 14:00-14:50  
 Venue A  
 Rossini PM (Rome) Neuronal plasticity in human  
 Chairperson: Hashimoto I (Tokyo)

### ICCN2010 Named Lectures

- ICCN2010-NL1 Buchthal Lecture  
 October 29 (Friday) 13:00-13:50  
 Venue B  
 Lehmann-Horn F (Ulm) Myotonia as channelopathies  
 Chairperson: Arimura K (Kagoshima)
- ICCN2010-NL2 Halliday Lecture  
 October 29 (Friday) 13:00-13:50  
 Venue C  
 Naatanen R (Helsinki) Clinical use of mismatch  
 negativity  
 Chairperson: Koga Y (Mitaka)

**ICCN2010-NL3 Narabayashi Lecture**

October 29 (Friday) 13:00-13:50

Venue D

Graybiel A (Cambridge, Mass.) The basal ganglia and mind

Chairperson: Kaji R (Tokushima)

**Special Lecture for Opening Ceremony**

October 28 (Thursday) 16:00-18:00

Venue A

Lucking CH (Freiburg) and Nuwer MR (Los Angeles) History of IFCN

Chairperson: Shibasaki H (Kyoto)

**Memorial Lectures (Joint Session of ICCN2010 and the 40th Annual Meeting of Japanese Society of Clinical Neurophysiology (JSCN40))**

November 1 (Monday) 17:45-18:55 (Before Closing Ceremony)

Venue A

Chair: Yanagisawa N (Tokyo)

**Shimazono Lecture**

Hashimoto I (Tokyo)

Cortical representation of attention focus:

short-term plasticity in the human somatosensory cortex

**Tokizane Lecture**

Shibasaki H (Kyoto)

Cortical activities associated with voluntary and involuntary movements

**Special Lectures**

SL1 October 29 (Friday) 8:00-8:50

Venue B

Ziemann U (Frankfurt)

Neuropharmacology of intracortical inhibition

Chairperson: Hanajima R (Tokyo)

- SL2      October 29 (Friday) 8:00-8:50  
Venue C  
Guerit JM (Brussels)  
Use of evoked potentials for intraoperative monitoring  
Chairperson: Cibils D (Montevideo)
- SL3      October 29 (Friday) 8:00-8:50  
Venue D  
Valeriani M (Rome)  
Somatosensory evoked potentials  
Chairperson: Ozaki I (Aomori)
- SL4      October 29 (Friday) 8:00-8:50  
Venue E  
Stam CJ (Amsterdam)  
Cortico-cortical functional coupling: what can we learn  
from graph theory?  
Chairperson: Hallett M (Bethesda)
- SL5      October 29 (Friday) 8:00-8:50  
Venue F  
Valls-Sole J (Barcelona)  
Electrophysiological studies of cranial nerve functions  
Chairperson: Kimura J (Iowa City)
- SL6      October 29 (Friday) 8:00-8:50  
Venue G  
Lauritzen M (Copenhagen)  
Hemodynamic vs. electrophysiologic activities of brain  
Chairperson: Fukuyama H (Kyoto)
- SL7      October 30 (Saturday) 8:00-8:50  
Venue B  
Rothwell JC (London, UK)  
Future of TMS  
Chairperson: Ugawa Y (Fukushima)

- SL8      October 30 (Saturday) 8:00-8:50  
Venue C  
Stalberg EV (Uppsala)  
EMG study of myopathy  
Chairperson: Sonoo M (Tokyo)
- SL9      October 30 (Saturday) 8:00-8:50  
Venue D  
Garcia-Larrea L (Lyon)  
Cortical pain processing  
Chairperson: Kakigi R (Okazaki)
- SL10     October 30 (Saturday) 8:00-8:50  
Venue E  
Hallett M (Bethesda)  
Physiology of psychogenic movement disorders  
Chairperson: Shibasaki H (Kyoto)
- SL11     October 30 (Saturday) 8:00-8:50  
Venue F  
Mills KR (London, UK)  
Generation of abnormal spontaneous electrical activity in  
muscle  
Chairperson: Komori T (Saitama)
- SL12     October 30 (Saturday) 8:00-8:50  
Venue G  
Burke D (Sydney)  
Action potentials and impulse conduction in sensory and  
motor axons  
Chairperson: Kuwabara S (Chiba)

- SL13    October 30 (Saturday) 8:00-8:50  
Venue H  
Baehr M (Goettingen)  
Neurophysiological correlates of axonal and neuronal  
degeneration in experimental optic neuritis  
Chairperson: Tobimatsu S (Fukuoka)
- SL 14    October 31 (Sunday) 8:00-8:50  
Venue A  
Deuschl G (Kiel)  
Clinical physiology of tremor  
Chairperson: Elble RJ (Springfield, Ill.)
- SL15    October 31 (Sunday) 8:00-8:50  
Venue B  
Sanders DB (Durham)  
Physiology of neuromuscular junction  
Chairperson: Oh SJ (Birmingham, Ala.)
- SL16    October 31 (Sunday) 8:00-8:50  
Venue C  
Bostock H (London, UK) (Tasaki Memorial Lecture)  
Threshold electrotonus and related techniques  
Chairperson: Burke D (Sydney)
- SL17    October 31 (Sunday) 8:00-8:50  
Venue E  
Kimura J (Iowa City)  
Recent advance in F wave  
Chairperson: Yanagisawa N (Tokyo)
- SL18    October 31 (Sunday) 8:00-8:50  
Venue G  
Tobimatsu S (Fukuoka)  
Physiology of visual cortex  
Chairperson: Kuroiwa Y (Yokohama)

- SL19    October 31 (Sunday) 8:00-8:50  
Venue H  
Daube JR (Rochester, Minn.)  
Pitfalls of needle electromyography: a case based  
discussion  
Chairperson: Kohara N (Kobe)
- SL20    November 1 (Monday) 8:00-8:50  
Venue A  
Stegeman DF (Nijmegen)  
New insights from high density surface EMG  
Chairperson: Kimura A (Izu)
- SL21    November 1 (Monday) 8:00-8:50  
Venue C  
Hari R (Espoo)  
Brains in social interaction  
Chairperson: Nagamine T (Sapporo)
- SL22    November 1 (Monday) 8:00-8:50  
Venue D  
Brown P (London, UK)  
Significance of oscillations in the basal ganglia circuit  
Chairperson: Hashimoto T (Matsumoto)
- SL23    November 1 (Monday) 8:00-8:50  
Venue E  
Eisen A (Vancouver)  
Electrophysiological diagnosis of ALS  
Chairperson: Dengler R (Hannover)

### **Award Lectures**

November 1 (Monday) 15:50-16:30

Venue G

M.A.B. Brazier Young Investigator Award Lecture

W.A. Cobb Young Investigator Award Lecture

## Symposium

### S1 (120 min) Sleep monitoring

October 29 (Friday) 9:00-11:00

Venue A

Chairpersons: Chokroverty S (Edison, N.J.), Kohyama J (Tokyo)

1. Tachibana N (Osaka)                      Historical overview of sleep scoring – how and why it has been modified
2. Miyamoto T, Miyamoto M (Utsunomiya)                      Clinical and polysomnographic features of idiopathic REM sleep behavior disorder
3. Nakajima T (Mitaka)                      Abnormal awaking state detected by activity monitoring
4. Chokroverty S (Edison, N.J.)                      Rhythm of the sleeping brain
5. Svanborg E (Stockholm)                      Neurophysiological testing in obstructive sleep apnea syndrome
6. Kohyama J (Tokyo)                      Sleep disorders in children

### S2 (120 min) Working memory and social brain

October 29 (Friday) 9:00-11:00

Venue B

Chairpersons: Stephane M (Minneapolis), Osaka M (Osaka)

1. Osaka M (Osaka)                      Neural bases of working memory
2. Clark CR (Adelaide)                      Working memory in post-traumatic stress disorder
3. Stephane M (Minneapolis)                      Working memory in schizophrenia
4. Osaka N (Kyoto)                      Cognitive aspects of social brain
5. Sadato N (Okazaki)                      Social brain by fMRI study

## S3 (120 min) Axonal conduction and threshold tracking

October 29 (Friday) 9:00-11:00

Venue C

Chairpersons: Burke D (Sydney), Kuwabara S (Chiba)

1. Bostock H (London, UK) Clinical application of threshold electrotonus
2. Krarup C (Copenhagen) Axonal conduction in degenerating and regenerating nerve fibers
3. Kuwabara S (Chiba) Diabetic neuropathy
4. Kiernan MC (Sydney) Toxic and metabolic neuropathy
5. Nodera H (Tokushima) Conduction block and ALS

## S4 (120 min) Intracortical inhibition

October 29 (Friday) 9:00-11:00

Venue D

Chairpersons: Di Lazzaro V (Rome), Hanajima R (Tokyo)

1. Sohn YH (Seoul) Surround inhibition
2. Hanajima R (Tokyo) Mechanism of intracortical inhibition
3. Chen R (Toronto) Intracortical inhibition in movement disorders
4. Di Lazzaro V (Rome) Transcranial brain stimulation and cortical plasticity

## S5 (120 min) High frequency oscillations (HFOs)

October 29 (Friday) 9:00-11:00

Venue E

Chairpersons: Restuccia D (Rome), Hashimoto I (Tokyo)

1. Hashimoto I (Tokyo) Physiological basis of HFOs
2. Restuccia D (Rome) Pharmacological modulation of HFOs
3. Hamada M (Tokyo) HFOs in amyotrophic lateral sclerosis
4. Alegre M (Pamplona) Cortical myoclonus

## S6 (120 min) Small fiber physiology

October 29 (Friday) 9:00-11:00

Venue F

Chairpersons: Cole J (Poole, UK), Iwase S (Nagoya)

1. Cole J (Poole, UK) Physiology of low threshold unmyelinated sensory fibres
2. Inui K (Okazaki) Physiology of nociceptive fibers
3. Schmelz M (Heidelberg) Small fiber neuropathy and pain
4. Iwase S (Nagoya) Sympathetic nerve conduction

## S7 (120 min) Evaluation of radiculopathy and myelopathy

October 29 (Friday) 9:00-11:00

Venue G

Chairpersons: Nobrega JA (Sao Paulo), Tani T (Kochi)

1. Kuruoglu R (Ankara) Evaluation of radiculopathy
2. Lo YL (Singapore) Cervical spondylosis
3. Tani T (Kochi) Spinal cord evoked potentials in cervical compression myelopathies with conduction block
4. Nobrega JA (Sao Paulo) F wave

## S8 (120 min) Brain computer interface

October 29 (Friday) 9:00-11:00

Venue H

Chairpersons: Hallett M (Bethesda), Babiloni F (Rome)

1. Hallett M (Bethesda), Matsushashi M (Kyoto) Intention to move
2. Cichocki A (Wako) Current trends in noninvasive brain computer interfaces
3. Ushiba J (Tokyo) Instrumentation
4. Yoshimine T (Osaka) Decoding of electrocorticogram
5. Babiloni F (Rome) Brain computer interfaces for communication and control of robotic devices and applications

## S9 (150 min) Physiological studies of cognitive functions

October 29 (Friday) 15:00-17:30

Venue A

Chairpersons: Polich J (San Diego), Farina J (Porto Alegre)

1. Polich J (San Diego) Overview
2. Tomberg C (Brussels) Factors influencing ERP
3. Kuroiwa Y (Yokohama) Cognitive VEP
4. Olichney JM (Davis, Calif.) ERP studies of memory disorders
5. Yamaguchi S (Izumo) Neurological disorders
6. Tachibana H (Nishinomiya) Movement disorders
7. Tucker DM (Eugene, Oreg.) Dense array EEG and mechanisms of Epilepsy

S10 (150 min) Clinical application of MEG: Epilepsy and brain mapping  
(Sponsored by Yokogawa Co.)

October 29 (Friday) 15:00-17:30

Venue B

Chairpersons: Papanicolaou A (Houston), Nakasato N (Sendai)

1. Nakasato N (Sendai) Practical reasons for applying MEG clinically
2. Bast T (Kehl-Kork) Combined EEG and MEG analysis for epilepsy
3. Papanicolaou A (Houston) Presurgical language lateralization and mapping
4. Kamada K (Asahikawa) Spatial and temporal dynamics of language-related and face recognition brain functions by electrocorticogram and MEG
5. Roberts TP (Philadelphia) Language impairment in autism spectrum disorders
6. Otsubo H (Toronto) MEG and intracranial video EEG in pediatric neocortical epilepsy

## S11 (150 min) Clinical application of rTMS

October 29 (Friday) 15:00-17:30

Venue C

Chairpersons: Rossi S (Siena), Wang Y (Beijing)

1. Rossi S (Siena) Safety issue of rTMS
2. Bestmann S (London, UK) Combined TMS and fMRI
3. Saitoh Y (Osaka) Pain
4. Kito S (Mitaka) Neuroanatomical correlates of therapeutic efficacy of transcranial magnetic stimulation (TMS) in depression
5. Wang Y (Beijing) Epilepsy
6. Enomoto H (Fukushima) Potentiation and depotentiation of the motor cortex induced by quadripulse stimulation

## S12 (150 min) Physiological abnormalities in psychiatric diseases

October 29 (Friday) 15:00-17:30

Venue D

Chairpersons: Salisbury DF (Boston), Niwa S (Fukushima)

1. Matsuura M (Tokyo) Introduction
2. Salisbury DF (Boston) ERP indices of static and progressive brain abnormalities in schizophrenia
3. Niwa S (Fukushima) ERP in schizophrenia and developing disorders
4. Stephane M (Minneapolis) Working memory in schizophrenia
5. Michie PT (Callaghan) Mismatch negativity: a physiological index of structural and functional brain abnormalities in schizophrenia
6. Takizawa R (Tokyo) Near-infrared spectroscopy (NIRS) in psychiatric disorders
7. Araki T, Kasai K (Tokyo) ERP and neuroimaging study in schizophrenia

## S13 (150 min) Deep brain recording and stimulation

October 29 (Friday) 15:00-17:30

Venue E

Chairpersons: Katayama Y (Tokyo), Rektor I (Brno)

- |    |                         |                                     |
|----|-------------------------|-------------------------------------|
| 1. | Hashimoto T (Matsumoto) | Physiological findings              |
| 2. | Rektor I (Brno)         | Basal ganglia recording in epilepsy |
| 3. | Fraix V (Grenoble)      | Parkinson's disease                 |
| 4. | Zhuang P (Beijing)      | Dystonia                            |
| 5. | Katayama Y (Tokyo)      | Chronic pain                        |
| 6. | Chang JW (Seoul)        | Mental disorders                    |

## S14 (150 min) Development and brain functions

October 29 (Friday) 15:00-17:30

Venue F

Chairpersons: Vanhatalo S (Helsinki), Ozaki H (Mito)

- |    |                         |                                                             |
|----|-------------------------|-------------------------------------------------------------|
| 1. | Vanhatalo S (Helsinki)  | Neonatal EEG beyond the graphoelements                      |
| 2. | Pihko E (Helsinki)      | Neonatal MEG                                                |
| 3. | Martinovic Z (Belgrade) | EEG evolution in children with epilepsy                     |
| 4. | Inagaki M (Kodaira)     | Magnocellular VEP in dyslexics                              |
| 5. | Chan AS (Hong Kong)     | Autistic children                                           |
| 6. | Ozaki H (Mito)          | Neurophysiological contribution to evidence based education |

## S15 (120 min) Auditory system

October 30 (Saturday) 9:00-11:00

Venue A

Chairpersons: Starr A (Irvine), Ozaki I (Aomori)

- |    |                     |                                                                          |
|----|---------------------|--------------------------------------------------------------------------|
| 1. | Starr A (Irvine)    | Physiology of auditory nerve                                             |
| 2. | Okamoto H (Munster) | Auditory evoked magnetic field                                           |
| 3. | Ozaki I (Aomori)    | Human tonotopic maps and their rapid task-related changes studied by MEG |
| 4. | Fischer C (Lyon)    | Cognitive auditory evoked potentials in uncommunicative patients         |
| 5. | Satoh M (Sendai)    | Music and the brain: cognition and emotion                               |

## S16 (120 min) Event-related desynchronization/synchronization (ERD/ERS)

October 30 (Saturday) 9:00-11:00

Venue B

Chairpersons: Derambure P (Lille), Hirata M (Osaka)

1. Neuper C (Graz)            New concepts of ERD/ERS for the study of mental processes
2. Hirata M (Osaka)        Language study based on the cerebral oscillatory changes using beam forming magnetometry
3. Wheaton L (Atlanta)    Praxis movement
4. Derambure P (Lille)    Clinical application

## S17 (120 min) Sensorimotor integration

October 30 (Saturday) 9:00-11:00

Venue C

Chairpersons: Tecchio F (Rome), Mima T (Kyoto)

1. Ohki Y (Mitaka)        Basic physiology
2. Tecchio F (Rome)      Local cortical and cortico-spinal neural synchrony for sensorimotor control
3. Kida T (Okazaki)      EEG/MEG study
4. Mima T (Kyoto)        Combined study

## S18 (120 min) Visual system

October 30 (Saturday) 9:00-11:00

Venue D

Chairpersons: Holder GE (London, UK), Tobimatsu S (Fukuoka)

1. Holder GE (London, UK)    Clinical application of ERG
2. Miyake Y (Nagoya)        Electrodiagnosis of retinal diseases with normal fundus
3. Tobimatsu S (Fukuoka)    Modality-specific VEP
4. Hirai M (Kingston, Ontario)    Neural response to perception of biological motion
5. Puce A (Bloomington, Ind.)    Neural measures of non-verbal communication

## S19 (120 min) Use of TMS for treatment (Sponsored by Magstim)

October 30 (Saturday) 9:00-11:00

Venue E

Chairpersons: Mills KR (London, UK), Tsuji S (Kitakyushu)

1. Mills KR (London, UK) Overview
2. Terao Y (Tokyo) Implications of hemispheric lateralization in motor recovery
3. Ugawa Y (Fukushima) Parkinson disease
4. Pascual-Leone A (Boston) Neurological diseases
5. Paulus W (Gottingen) Transcranial electrical stimulation techniques

## S20 (120 min) Pathophysiology of essential tremor

October 30 (Saturday) 9:00-11:00

Venue F

Chairpersons: Vaillancourt DE (Chicago), Katayama Y (Tokyo)

1. Volkmann J (Kiel) Lessons deep brain stimulation told us about the pathophysiology of essential tremor
2. Katayama Y (Tokyo) Role of thalamus
3. Louis ED (New York) Neuropathology
4. van Rootselaar AF (Amsterdam) Cortical tremor
5. Vaillancourt DE (Chicago) Movement and brain function in essential tremor and Parkinson's disease

## S21 (120 min) Infralow cortical activities

October 30 (Saturday) 9:00-11:00

Venue G

Chairpersons: Fabricius M (Copenhagen), Ikeda A (Kyoto)

1. Fabricius M (Copenhagen) Cortical spreading depolarizations
2. Rodin E (Salt Lake City) Intracranial infralow EEG
3. Ikeda A (Kyoto) Epilepsy
4. Vanhatalo S (Helsinki) Slow events in child's brain

## S22 (120 min) EEG/MEG and epilepsy in children

October 30 (Saturday) 9:00-11:00

Venue H

Chairpersons: Pihko E (Helsinki), Kaga M (Kodaira)

- |    |                            |                                                 |
|----|----------------------------|-------------------------------------------------|
| 1. | Negoro T (Okazaki)         | Development of EEG and age dependent epilepsy   |
| 2. | Kubota M (Tokyo)           | Use of MEG in the study of development          |
| 3. | Pihko E (Helsinki)         | Neonatal MEG                                    |
| 4. | Ochi A, Otsubo H (Toronto) | MEG and scalp EEG in children                   |
| 5. | Kaga M (Kodaira)           | Auditory perception in Landau-Kleffner syndrome |

## S23 (150 min) Intraoperative and ICU monitoring

(Sponsored by CareFusion Japan)

October 30 (Saturday) 15:00-17:30

Venue A

Chairpersons: Nuwer MR (Los Angeles), Cibils D (Montevideo)

- |    |                             |                                                               |
|----|-----------------------------|---------------------------------------------------------------|
| 1. | Cibils D (Montevideo)       | Overview                                                      |
| 2. | Guerit JM (Brussels)        | Cortical functions                                            |
| 3. | Fabricius M (Copenhagen)    | Long term electrocorticography in acute brain injury          |
| 4. | Fischer C (Lyon)            | Auditory event-related potentials in comatose patients        |
| 5. | Machado C (Havana)          | Diagnosis of brain death and other disorders of consciousness |
| 6. | Yamamoto T (Tokyo)          | Neurosurgical monitoring                                      |
| 7. | Yingling CD (San Francisco) | Mapping corticospinal tract                                   |

## S24 (150 min) Use of near-infrared spectroscopy (NIRS)

October 30 (Saturday) 15:00-17:30

Venue B

Chairpersons: Mackert BM (Berlin), Koizumi H (Saitama)

- |    |                          |                                                                                        |
|----|--------------------------|----------------------------------------------------------------------------------------|
| 1. | Koizumi H (Saitama)      | Principle of NIRS                                                                      |
| 2. | Hoshi Y (Tokyo)          | Basic study of NIRS                                                                    |
| 3. | Watanabe E (Tochigi)     | Clinical application                                                                   |
| 4. | Fukuda M (Shimotsuke)    | Psychiatric disorders                                                                  |
| 5. | Fallgatter AJ (Wurzburg) | Attention deficit/hyperactivity disorder                                               |
| 6. | Yamaguchi M (Tokyo)      | NIRS study in infants                                                                  |
| 7. | Mackert BM (Berlin)      | Combined DC-MEG and NIRS to study simultaneously neuronal and vascular brain functions |

## S25 (150 min) Use of botulinum toxin for neurological disorders

(Sponsored by GlaxoSmithKline)

October 30 (Saturday) 15:00-17:30

Venue C

Chairpersons: Rogers JD (Singapore), Kaji R (Tokushima)

- |    |                                     |                                                                            |
|----|-------------------------------------|----------------------------------------------------------------------------|
| 1. | Rogers JD (Singapore)               | Beyond the neuromuscular junction and implication for clinical application |
| 2. | Mezaki T (Tsu)                      | Dystonia                                                                   |
| 3. | Altenmuller E (Hannover)            | Musician's cramp                                                           |
| 4. | Kaji R (Tokushima)                  | Spasticity                                                                 |
| 5. | Rosales RL (Manila)                 | Spasticity in stroke and botulinum toxin therapy: Whom and when to inject? |
| 6. | Nezu A (Yokohama)                   | Cerebral palsy and botulinum toxin                                         |
| 7. | Bouhassira D (Boulogne-Billancourt) | Pain and headache                                                          |

## S26 (150 min) Sleep disorders

October 30 (Saturday) 15:00-17:30

Venue D

Chairpersons: Montplaisir J (Montreal), Hirata K (Mibu)

1. Hirata K (Mibu) Overview
2. Dyken ME, Yamada T (Iowa City)  
The clinical diagnostic pitfalls of polysomnography
3. Inoue Y (Tokyo) Clinical application of PSG
4. Montplaisir J (Montreal) REM sleep behavior disorders
5. de Weerd AW (Hague) Periodic limb movement during sleep
6. Ozone M (Tokyo) CAP (cyclic alternating pattern) in psychiatric disorder

## S27 (150 min) Physiology of polyneuropathies

October 30 (Saturday) 15:00-17:30

Venue E

Chairpersons: Reisin RC (Buenos Aires), de Carvalho MA (Lisbon)

1. Reisin RC (Buenos Aires) Introduction
2. Goh K-J (Kuala Lumpur) Guillain-Barré syndrome: clinical and electrophysiological spectrum
3. Franssen H (Utrecht) Demyelinating neuropathies
4. Misawa S (Chiba) Diabetic neuropathy
5. Huang CC (Taipei) Toxic neuropathies
6. de Carvalho MA (Lisbon) Familial amyloid polyneuropathy
7. Lin CS (Sydney) Porphyric neuropathy: insane in the membrane

S28 (150 min) Mapping and monitoring for eloquent area during  
neurosurgery

October 30 (Saturday) 15:00-17:30

Venue F

Chairpersons: Sala F (Verona), Tamaki T (Wakayama)

1. Tamaki T (Wakayama) History of the development of intraoperative monitoring of neural tissue
2. Sala F (Verona) MEP monitoring and subcortical mapping in brain tumor surgery
3. Fukaya C (Tokyo) D-wave monitoring in brain tumor surgery
4. Szelenyi A (Frankfurt) MEP monitoring in vascular neurosurgery
5. Shinomiya K, Kawabata S (Tokyo) Multimodal intraoperative monitoring during spine surgery
6. Mikuni N (Kyoto) Integrated functional neuronavigation during neurosurgery

S29 (120 min) Mismatch negativity (MMN)

October 31 (Sunday) 9:00-11:00

Venue A

Chairpersons: Naatanen R (Helsinki), Yabe H (Fukushima)

1. Naatanen R (Helsinki) Principle
2. Yabe H (Fukushima) Basic study
3. Escera C (Barcelona) Ultrafast mechanisms of auditory novelty detection in the human brain
4. Kirino E (Shizuoka) Simultaneous EEG-fMRI recording of MMN in schizophrenia
5. Michie PT (Callaghan) MMN in schizophrenia: relationship to functional status, generator sources and grey matter loss

## S30 (120 min) High resolution EEG analysis

October 31 (Sunday) 9:00-11:00

Venue B

Chairpersons: Stam CJ (Amsterdam), Koga Y (Mitaka)

1. Koga Y (Mitaka) Overview
2. Pascual-Marqui RD (Zurich) Functional localization and cortical connectivity: discovering the parts and their interactions using exact LORETA
3. Stam CJ (Amsterdam) Analysis methods: new approaches to the characterization of functional brain networks
4. Babiloni C (Rome) Mechanisms of cortical neural synchronization in humans as revealed by advanced EEG techniques
5. Harmony T (Mexico City) Narrow frequency EEG source analysis in the first year of life

## S31 (120 min) Somatosensory system

October 31 (Sunday) 9:00-11:00

Venue C

Chairpersons: Yamada T (Iowa City), Tinazzi M (Verona)

1. Sonoo M (Tokyo) Generator mechanism of SEP
2. Yamada T (Iowa City) Effect of sleep
3. Hoshiyama M (Nagoya) Two point discrimination
4. Valeriani M (Rome) Clinical use of SEP
5. Tinazzi M (Verona) Sensory functions in movement disorders

## S32 (120 min) Functional recovery of stroke patients

October 31 (Sunday) 8:00-10:00

Venue F

Chairpersons: Cohen LG (Bethesda), Miyai I (Osaka)

1. Cohen LG (Bethesda) Cortical physiology and rehabilitation in stroke patients
2. Miyai I (Osaka) Neural mechanisms underlying functional recovery after stroke
3. Hummel FC (Hamburg) Mechanism of stroke recovery
4. Fujiwara T (Tokyo) Effect of hybrid assistive neuromuscular dynamic electrical stimulation (HANDS) for recovery after stroke

## S33 (120 min) Psychophysiology of attention-deficit/hyperactivity disorders (AD/HD)

October 31 (Sunday) 9:00-11:00

Venue G

Chairpersons: Fallgatter AJ (Wurzburg), Yasuhara A (Hirakata)

1. Yasuhara A (Hirakata) Evaluation of attention in AD/HD by the continuous performance test
2. Yamashiro D, Goto Y, Kaga Y, Aihara M (Kofu) Psychophysiological evidences of poor inhibition in AD/HD
3. Tripp EG (Okinawa) AD/HD and reward system
4. Fallgatter AJ (Wurzburg) ERP and NIRS in AD/HD

## S34 (120 min) Neurophysiology of rehabilitation

October 31 (Sunday) 9:00-11:00

Venue H

Chairpersons: Robinson LR (Seattle), Kimura A (Izu)

1. Li LSW (Hong Kong) Current status of neurorehabilitation
2. Kimura A (Izu) Motor recovery from hemispheric stroke
3. Ikoma K (Sapporo) Use of TMS for rehabilitation
4. Takahashi H (Mitaka) Spasticity reduction by inhibitive orthosis
5. Robinson LR (Seattle) Carpal tunnel syndrome

## S35 (150min) Fasciculation and motor neuron disease

October 31 (Sunday) 15:00-17:30

Venue A

Chairpersons: Fuglsang-Frederiksen A (Aarhus), Sonoo M (Tokyo)

- |    |                                   |                                       |
|----|-----------------------------------|---------------------------------------|
| 1. | Eisen A (Vancouver)               | Clinical aspect                       |
| 2. | de Carvalho MA (Lisbon)           | Physiology of ALS                     |
| 3. | Dengler R (Hannover)              | Electrophysiological diagnosis of ALS |
| 4. | Sonoo M (Tokyo)                   | EMG in ALS                            |
| 5. | Kleine BU, Stegeman DF (Nijmegen) | Mechanisms of fasciculation           |
| 6. | Fawcett PRW (Newcastle upon Tyne) | Macro EMG in neurogenic disorders     |
| 7. | Fuglsang-Frederiksen A (Aarhus)   | Sensory nerve in ALS                  |

## S36 (150 min) Recent advance in magnetoencephalography

(Sponsored by Elekta Neuromag Oy)

October 31 (Sunday) 15:00-17:30

Venue B

Chairpersons: Hari R (Espoo), Nagamine T (Sapporo)

- |    |                       |                                                       |
|----|-----------------------|-------------------------------------------------------|
| 1. | Ahonen A (Helsinki)   | Techniques and analysis methods                       |
| 2. | Hashimoto I (Tokyo)   | Magnetic signals from deep sources in the human brain |
| 3. | Nagamine T (Sapporo)  | Correlation with invasive recording                   |
| 4. | Kaneoke Y (Okazaki)   | Motion perception                                     |
| 5. | Hirata M (Osaka)      | Event-related desynchronization and synchronization   |
| 6. | Okada Y (Albuquerque) | Brain activities during development                   |

## S37 (150 min) Update of TMS

October 31 (Sunday) 15:00-17:30

Venue C

Chairpersons: Ziemann U (Frankfurt), Nakashima K (Yonago)

- |    |                       |                                  |
|----|-----------------------|----------------------------------|
| 1. | Nakashima K (Yonago)  | Introduction                     |
| 2. | Ziemann U (Frankfurt) | Pharmacology and TMS             |
| 3. | Huang Y-Z (Taipei)    | Theta burst stimulation          |
| 4. | Magistris MR (Geneva) | The triple stimulation technique |
| 5. | Ugawa Y (Fukushima)   | Quadripulse stimulation          |
| 6. | Cincotta M (Florence) | Mirror movement                  |
| 7. | Murase N (Tokushima)  | Treatment of focal hand dystonia |

## S38 (150 min) Face perception

October 31 (Sunday) 15:00-17:30

Venue E

Chairpersons: Puce A (Bloomington, Ind.), Kakigi R (Okazaki)

1. Puce A (Bloomington, Ind.) Overview
2. Kakigi R (Okazaki) EEG/MEG
3. Iidaka T (Nagoya) fMRI
4. Gunji A (Kodaira) Facial cognition in autistic children
5. Nakato E (Tokyo) Familiar vs. unfamiliar faces to infants studied by NIRS
6. Eifuku S (Toyama) Neural correlates of face recognition and memory in monkeys
7. Rossion B (Louvain) The neurophysiology of acquired prosopagnosia

## S39 (150 min) Physiological studies of language

October 31 (Sunday) 15:00-17:30

Venue F

Chairpersons: Salmelin R (Espoo), Sakai K (Tokyo)

1. Salmelin R (Espoo) Neurophysiology of language: the MEG approach
2. Sakai K (Tokyo) fMRI and MEG
3. Fujimaki N (Akashi) Linguistic brain functions and contextual effects measured with MEG and fMRI
4. Papanicolaou A (Houston) Presurgical language lateralization
5. Kamada K (Asahikawa) Intraoperative monitoring
6. Usui K (Shizuoka) Basal temporal language area

## S40 (120 min) Rapid eye movements and sleep: EEG and fMRI study

November 1 (Monday) 9:00-11:00

Venue A

Chairpersons: Bodizs R (Budapest), Miyauchi S (Kobe)

1. Bodizs R (Budapest) Emergence of REM sleep features during wakefulness-sleep transition
2. Abe T (Tokyo) Gamma band EEG activities before and after REM
3. Ogawa K (Saitama) Event-related potential accompanying REM
4. Miyauchi S (Kobe) fMRI activation time-locked to REM during REM sleep
5. Bodis-Wollner I (New York) Perisaccadic modulation of brain activity: EEG and fMRI

## S41 (120 min) Gait disturbance

November 1 (Monday) 9:00-11:00

Venue C

Chairpersons: Lamontagne A (Montreal), Takakusaki K (Asahikawa)

1. Takakusaki K (Asahikawa) Basic physiology of locomotion
2. Hanakawa T (Kodaira) Mechanism of gait control
3. Miyai I (Osaka) Functional NIRS study
4. Lamontagne A (Montreal) Post-stroke gait disturbance: innovative rehabilitation approaches

## S42 (120 min) Digital EEG and EEG standards

November 1 (Monday) 9:00-11:00

Venue D

Chairpersons: Nuwer MR (Los Angeles), Guerit JM (Brussels)

1. Nuwer MR (Los Angeles) Digital EEG and EEG standards: overview
2. Nakamura M (Saga) Automatic EEG interpretation
3. Kobayashi K, Yoshinaga H (Okayama) Epilepsy in children
4. Guerit JM (Brussels) EEG standards for ICU monitoring

## S43 (120 min) Vestibular physiology and postural control

November 1 (Monday) 9:00-11:00

Venue E

Chairpersons: Colebatch JG (Sydney), Murofushi T (Tokyo)

1. Murofushi T (Tokyo) Neurophysiology of vestibular function
2. Colebatch JG (Sydney) Ocular vestibular evoked myogenic potentials
3. Kim JS (Seoul) Central mechanisms of vestibular function
4. Fujiwara K (Kanazawa) Postural control and EEG during platform perturbation

## S44 (120 min) Channel disorders

November 1 (Monday) 9:00-11:00

Venue F

Chairpersons: Lehmann-Horn F (Ulm), Arimura K (Kagoshima)

1. Kiernan MC (Sydney) Methods of physiological studies
2. Kuwabara S (Chiba) Peripheral nerves
3. Maselli RA (Davis, Cal.) Neuromuscular junction
4. Arimura K (Kagoshima) Muscles
5. Lehmann-Horn F (Ulm) Myotonia

## S45 (120 min) Physiological evaluation of myopathies

November 1 (Monday) 9:00-11:00

Venue G

Chairpersons: Zalewska E (Warsaw), Imai T (Sapporo)

1. Zalewska E (Warsaw) Motor unit potentials
2. Imai T (Sapporo) Measurement of excitation-contraction coupling time of masseter in mandibular movement
3. Ciafaloni E (Rochester, N.Y.) Channelopathy
4. Jurkat-Rott K (Ulm) Periodic paralysis

## S46 (150 min) Neuroimaging and electrophysiology

November 1 (Monday) 14:00-16:30

Venue A

Chairpersons: Lauritzen M (Copenhagen), Fukuyama H (Kyoto)

1. Fukuyama H (Kyoto) Neurovascular coupling
2. Lauritzen M (Copenhagen) Neurometabolic coupling
3. Magistretti PJ (Lausanne) Role of neuron-glia metabolic coupling in functional brain imaging
4. Le Bihan D (Paris) Water, diffusion and membranes: What to expect for neuroimaging?
5. Nagata K (Akita) Stroke and dementia
6. Ushida T (Nagakute) Neuroimaging for pain

## S47 (150 min) Epilepsy

(Sponsored by Otsuka Pharmaceutical / UCB Japan)

November 1 (Monday) 14:00-16:30

Venue B

Chairpersons: Ebersole JS (Chicago), Chauvel P (Marseille)

1. Sakamoto AC (Ribeirao Preto) Diagnosis and treatment of epilepsies
2. Lee BI (Seoul) Neuroimaging of epilepsy
3. Kwan P (Hong Kong) Drug treatment of epilepsy
4. Ebersole JS (Chicago) Source analysis of scalp EEG
5. Chauvel P (Marseille) Intracerebral EEG
6. Ikeda A (Kyoto) Broad band EEG for source detection
7. Inoue Y (Shizuoka) Symptomatology and long-term postoperative outcome of temporal lobe epilepsy

## S48 (150 min) Functional and effective connectivity

November 1 (Monday) 14:00-16:30

Venue C

Chairpersons: Stam CJ (Amsterdam), Honda M (Kodaira)

1. Honda M (Kodaira) Sensorimotor integration
2. Matsumoto R (Kyoto) Corticocortical evoked potentials
3. Stam CJ (Amsterdam) The breakdown of functional connectivity in neuropsychiatric disease
4. Ilmoniemi RJ (Helsinki) TMS and EEG
5. Mochizuki H (Fukushima) TMS and NIRS
6. Mima T (Kyoto) TMS and fMRI

## S49 (150 min) Entrapment neuropathies

November 1 (Monday) 14:00-16:30

Venue D

Chairpersons: Medici M (Montevideo), Tani T (Kochi)

1. Medici M (Montevideo) Overview
2. Tani T (Kochi) Experimental focal compression of the median nerve at the wrist
3. Wilder-Smith EP (Singapore) Carpal tunnel syndrome - diagnostic and pathophysiologic considerations
4. Veerendrakumar M (Bangalore) Ulnar nerve palsy
5. Campero M (Santiago) Sensory nerve conduction
6. Us O (Istanbul) Plantar and sural nerve conduction

## S50 (150 min) Physiology of pain and itch

November 1 (Monday) 14:00-16:30

Venue E

Chairpersons: Treede R-D (Mainz), Kakigi R (Okazaki)

1. Treede R-D (Mainz) Physiological study of pain
2. Tamura Y (Tokyo) Motor cortex stimulation and pain perception
3. Garcia-Larrea L (Lyon) Cortical mechanism of pain perception
4. Valeriani M (Rome) Generators of laser-evoked potentials
5. Schnitzler A (Dusseldorf) Pain processing and cortical oscillations
6. Mochizuki H (Mannheim) Itch perception

## S51 (150 min) Basal ganglia circuitry

November 1 (Monday) 14:00-16:30

Venue F

Chairpersons: Vaillancourt DE (Chicago), Brown P (London, UK)

1. Hashimoto T (Matsumoto) Deep brain recording from basal ganglia
2. Nambu A (Okazaki) Cortical inputs to the subthalamic nucleus
3. Fraix V (Grenoble) Findings in Parkinson's disease
4. Brown P (London, UK) Physiological significance of oscillations
5. Vaillancourt DE (Chicago) Long-term effects of deep brain stimulation for Parkinson's disease
6. Sawamoto N (Kyoto) Cognitive functions

S52 (110 min) NIRS application in clinical psychiatry

(Sponsored by HITACHI Medico)

November 1 (Monday) 14:00-15:50

Venue G

Chairpersons: Fukuda M (Maebashi), Fallgatter AJ (Wuerzburg)

1. Fukuda M (Maebashi) Approval of NIRS as the advanced medical technology in psychiatry
2. Fallgatter AJ (Wuerzburg) Optical topography in attention deficit/hyperactivity disorder
3. Takizawa R (Tokyo) NIRS application to psychiatric diagnosis and clinical evaluation
4. Shinohara K (Nagasaki) Neural Correlates of maternal love, paternal love and children's love for their parents

### Workshop

WS1 (75 min) Clinical use of motion logger

October 29 (Friday) 15:00-16:15

Venue G

Chairpersons: Meadows R (Surrey, UK), Nakajima T (Mitaka)

1. Meadows R (Surrey, UK) Actigraphic analysis techniques
2. Enomoto M (Kodaira) Appropriate method of activity measurement
3. Nakajima T (Mitaka) The reproducibility of actigraph
4. de Weerd AW (Hague) Use for polysomnography

WS2 (75 min) Spinal reflex

October 29 (Friday) 16:15-17:30

Venue G

Chairpersons: Nielsen JB (Copenhagen), Masakado Y (Isehara)

1. Nielsen JB (Copenhagen) Overview
2. Katz R (Paris) Spinal interneurons
3. Masakado Y (Isehara) H reflex in rehabilitation
4. Morita H (Matsumoto) Parkinson disease

WS3 (75 min) Neurophysiology of urination and pelvic floor muscles

October 29 (Friday) 15:00-16:15

Venue H

Chairpersons: Ertekin C (Izmir), Hattori T (Chiba)

1. Sakakibara R (Chiba) Sphincter physiology
2. Tello A (Mexico City) Neurophysiology of pelvic floor
3. Vodusek DB (Ljubljana) Clinical study
4. Ertekin C (Izmir) Human cremaster muscle and cremasteric reflexes

WS4 (75 min) Restoration of injured peripheral nerve function

October 29 (Friday) 16:15-17:30

Venue H

Chairpersons: Xavier de Castro JH (Porto Alegre), Chu N-S (Taipei)

1. Zhu Y (Shanghai) Use of physiological test
2. Kwon HK (Seoul) Electrodiagnosis as a prognostic factor
3. Montero J (Barcelona) Facial nerve
4. Chu N-S (Taipei) Outcome of toe-to-finger graft

WS5 (75 min) Drug effect on EEG

October 30 (Saturday) 15:00-16:15

Venue G

Chairpersons: Saletu B (Vienna), Kinoshita T (Osaka)

1. Saletu B, Anderer P, Saletu-Zyhlarz G (Vienna)  
Drug effects on EEG topography and tomography
2. Kinoshita T (Osaka) Clinical application
3. Strik W (Bern) Pathophysiology of thought disorders and Hallucinations
4. Tanaka H (Mibu) Clinical application in neurology

WS6 (75 min) Physiology of neuromuscular junction

October 30 (Saturday) 16:15-17:30

Venue G

Chairpersons: Sanders DB (Durham), Witoonpanich R (Bangkok)

1. Sanders DB (Durham) Overview
2. Witoonpanich R (Bangkok) Myasthenia gravis
3. Oh SJ (Birmingham, Ala.) Lambert-Eaton syndrome
4. Maselli RA (Davis, Cal.) Electrophysiology of congenital myasthenic syndromes

## WS7 (75 min) Ocular movement

October 30 (Saturday) 15:00-16:15

Venue H

Chairpersons: Bodis-Wollner I (New York), Terao Y (Tokyo)

1. Bodis-Wollner I (New York) Saccade-related cortical activity
2. Terao Y (Tokyo) Saccades in neurological disorders
3. Yugeta A (Tokyo) DBS and saccade performance

## WS8 (75 min) Respiratory physiology

October 30 (Saturday) 16:15-17:30

Venue H

Chairpersons: Podnar S (Ljubljana), Homma I (Tokyo)

1. Homma I (Tokyo) Emotional breathing
2. Podnar S (Ljubljana) Quantitative EMG of diaphragm and genioglossus
3. Chokroverty S (Edison, N.J.) Physiology of breathing during sleep

## WS9 (75 min) Neurophysiology of hyperkinetic movement disorders

October 31 (Sunday) 15:00-16:15

Venue G

Chairpersons: Deuschl G (Kiel), Shibasaki H (Kyoto)

1. Elble RJ (Springfield, Ill.) Tremor
2. De Koning-Tijssen MA (Amsterdam)  
Myoclonus
3. Hallett M (Bethesda) Dystonia

## WS10 (75 min) Studies of cranial nerve functions

October 31 (Sunday) 16:15-17:30

Venue G

Chairpersons: Kimura J (Iowa City), Valls-Sole J (Barcelona)

1. Kimura J (Iowa City) Differential diagnosis of facial weakness
2. Nobrega JA (Sao Paulo) Trigeminal nerve
3. Valls-Sole J (Barcelona) Blink reflex and startle response
4. Yingling CD (San Francisco) Facial monitoring surgery

WS11 (75 min) Motor unit number estimation

October 31 (Sunday) 15:00-16:15

Venue H

Chairpersons: Bromberg MB (Salt Lake City), Komori T (Saitama)

1. Bromberg MB (Salt Lake City) Clinical application
2. Lee K-W (Seoul) Motor neuron disease
3. Komori T (Saitama) Neuropathies

### Proposed Workshop

PW1 (105 min) The cellular mechanisms of EEG rhythms

October 28 (Thursday) 12:30-14:15

Venue B

Chairpersons: Amzica F (Montreal), Lopes da Silva FH (Amsterdam)

1. Amzica F (Montreal) Contributions of neurons, glia and blood-brain barrier to slow (delta) and DC EEG potentials
2. Nunez A (Madrid) Network mechanism underlying hippocampus theta oscillations
3. Lopes da Silva FH (Amsterdam) Brain rhythms in the 7-14 Hz frequency range: generation, dynamics and functional significance
4. Whittington M (Newcastle upon Tyne) Different cortical laminar origins for gamma and beta rhythms

PW2 (75 min) Neuromuscular ultrasound workshop

October 28 (Thursday) 14:15-15:30

Venue B

Chairperson: Hobson-Webb LD (Durham, NC)

1. Hobson-Webb LD (Durham, NC) Peripheral nerve ultrasonography in the EMG laboratory
2. Yoon JS (Seoul) Ultrasonography in the diagnosis of upper extremity nerve entrapment syndromes
3. Padua L (Rome) Moving toward morphofunctional measures of the peripheral nerve
4. van Alfen N (Nijmegen) Ultrasound of brachial plexopathies
5. Pillen S (Nijmegen) Advances in skeletal muscle ultrasonography

PW3 (105 min) Contact heat-evoked potentials (CHEP)

(Sponsored by MEDOC)

October 28 (Thursday) 12:30-14:15

Venue C

Chairpersons: Hsieh S-T (Taipei)

1. Chen A (Beijing) CHEP: Field mapping and source imaging
2. Smith B (Scottsdale, Ariz.)  
Upper and lower limb A $\delta$  fiber conduction velocities by CHEP
3. Hsieh S-T (Taipei) Overview of pain-related evoked potentials on neuropathic pain
4. Anand P (London, UK) Heat evoked potentials for the diagnosis of neuropathic pain and hypersensitivity disorders

PW4 (75 min) The role of the medial frontal cortex in valuation and social interaction

October 28 (Thursday) 14:15-15:30

Venue C

Chairpersons: Kawashima R (Sendai), Seitz RJ (Dusseldorf)

1. Kennerley S (Berkeley) Medial frontal cortex and decision-making: evidence from primate neuropsychology and neurophysiology
2. Seitz RJ (Dusseldorf) Human medial frontal cortex and value judgment
3. Kawashima R (Sendai) Role of the medial frontal cortex in communication

PW5 (75 min) Neuronal oscillations in multi-scale brain networks

October 28 (Thursday) 13:00-14:15

Venue D

Chairpersons: Tsuru N (Miyazaki), Canolty RT (Berkeley)

1. Canolty RT (Berkeley) The role of neuronal oscillations in local computation and long-range communication
2. Voytek B (Berkeley) Task-dependent modulation of gamma power by anterior theta and posterior alpha phase
2. Kramer M (Boston) The evolution of multi-scale interactions during seizure
3. Tsuru N (Miyazaki) Theta oscillation under working memory task on MEG

PW6 (75 min) Intraoperative neurophysiologic monitoring (IONM) of spinal column surgical procedures

October 28 (Thursday) 14:15-15:30

Venue D

Chairperson: Lopez JR (Palo Alto)

1. Nuwer MR (Los Angeles) IONM techniques useful in assessing spinal cord function in scoliosis surgery
2. Lopez JR (Palo Alto) Review of spinal column surgical procedures and the possible pathophysiologic mechanisms of neural injury during spinal surgery
3. Regidor I (Madrid) IONM techniques useful in assessing pedicle screw placement
4. Ferreira R (Sao Paulo) IONM of spinal roots and cauda equina

PW7 (75 min) Neonatal seizures: changing vistas in EEG vs. treatment

October 31 (Sunday) 16:15-17:30

Venue H

Chairpersons: Pressler R (London, UK), Vanhatalo S (Helsinki)

1. Vanhatalo S (Helsinki) Neonatal brain monitoring with EEG -solutions and challenges
2. Pressler R (London, UK) Neurophysiologist's role in both diagnosis and treatment of neonatal seizures
3. De Vos M (Leuven) Automated neonatal seizure detectors 1: heuristic approach and experience
4. Stevenson N (Cork) Automated neonatal seizure detectors 2: systematic approach and clinical application

### Satellite Symposium

Sat-S1 Nerve excitability testing: translation of basic science

October 28 (Thursday) 12:30-15:30

Venue E

Chairpersons: Burke D (Sydney), Kaji R (Tokushima)

1. Kaji R (Tokushima) Introduction to conduction block and related physiological backgrounds
2. Bergmans J (Brussels) Discovery of excitability measure in human nerve
3. Koltzenburg M (London, UK) Studying mechanisms of nerve excitability control in vitro

4. Tomlinson S (Sydney) Nerve excitability studies in genetic neuronal ion channel disorders.
5. Krarup C (Copenhagen) Use of animal models for exploring nerve excitability in peripheral nerves

### **Luncheon Seminar**

#### **LS1 (Sponsored by Schering-Plough)**

October 30 (Saturday) 13:00-13:50

Venue : B

Nakagome K (Yonago) Cognitive impairment in mood disorders

Chairperson: Kaneko S (Hirosaki)

#### **LS2 (Sponsored by GlaxoSmithKline)**

October 30 (Saturday) 13:00-13:50

Venue : C

Mochizuki H (Tokyo) Gene therapy and cell therapy for Parkinson's disease

Chairperson: Mizuno Y (Tokyo)

#### **LS3 (Sponsored by Boehringer Ingelheim)**

October 30 (Saturday) 13:00-13:50

Venue : D

Trenkwalder C (Kassel) Restless legs syndrome

Chairperson: Ugawa Y (Fukushima)

#### **LS4 (Sponsored by Meiji-Seika)**

October 31 (Sunday) 13:00-13:50

Venue : B

Kinoshita T (Osaka) Definition and treatment of depression

Chairperson: Matsunaga H (Nishinomiya)

## Hands-on-workshop

### 1. TMS

November 1 (Monday) 9:00-11:00

Venue B

Organizer: Ugawa Y (Fukushima)

Ugawa Y (Fukushima), Mills KR (London, UK), Rothwell JC (London, UK),  
Magistris MR (Geneva), Roesler KM (Bern), Tsuji S (Kitakyushu)

### 2. EEG

October 31 (Sunday) 9:00-11:00

Venue E

Organizer: Ikeda A (Kyoto)

Initial remark (15 minutes): How do we read routine EEG in the modern  
imaging era?:

Luders HO (Cleveland).

Case presentation (20 minutes X 4 sessions):

Epilepsy 1:

Presenter: Terada K (Shizuoka)

Discussants: Lee BI (Seoul), Chauvel P (Marseille)

Epilepsy 2:

Presenter: Sakamoto A (Ribeirao Preto)

Discussants: Ebersole JS (Chicago), Nakasato N (Sendai)

EEG in adults:

Presenter: Akamatsu N (Kitakyushu)

Discussants: Rektor I (Brno), Tobimatsu S (Fukuoka)

EEG in children:

Presenter: Oguni H (Tokyo)

Discussants: Yamada T (Iowa city), Otsubo H (Toronto)

Presentation of interesting cases and general discussion (25 minutes)

3. EMG and nerve conduction study (NSC)

November 1 (Monday) 14:00-16:30

Organizer: Baba M (Hirosaki), Kuwabara S (Chiba)

3a. NCS-1 (Venue H)

Kaji R (Tokushima), Kimura J (Iowa City)

3b. NCS-2 (Venue J)

Baba M (Hirosaki), Komori T (Saitama)

3c. EMG (Venue K)

Kohara N (Kobe), Fawcett P (Newcastle upon Tyne)

3d. Nerve excitability (Venue L)

Bostock H (London, UK), Kiernan MC (Sydney), Kuwabara S (Chiba)

**Joint Seminar with SFEMG/QEMG Group: Single fiber EMG and quantitative EMG**

(Sponsored by Natus Medical)

October 28 (Thursday) 10:00-12:00,13:00-15:00

Venue F

10:00-12:00 Part I

Chairpersons: Stalberg EV (Uppsala), Arimura K (Kagoshima)

- |                             |                                  |
|-----------------------------|----------------------------------|
| 1. Stalberg EV (Uppsala)    | Jitter with concentric electrode |
| 2. Pitt M (London, UK)      | Jitter analysis in children      |
| 3. Cui LY (Beijing)         | Myasthenia gravis                |
| 4. Sanders DB (Durham)      | Neuromuscular junction: Musk MG  |
| 5. Oh SJ (Birmingham, Ala.) | Lambert-Eaton syndrome           |

13:00-15:00 Part II

Chairpersons: Stalberg EV (Uppsala), Arimura K (Kagoshima)

- |                                 |                              |
|---------------------------------|------------------------------|
| 6. Zalewska E (Warsaw)          | Modeling                     |
| 7. Sonoo M (Tokyo)              | Quantitative surface EMG     |
| 8. Bromberg MB (Salt Lake City) | Motor unit number estimation |
| 9. Lee K-W (Seoul)              | Motor neuron disease         |
| 10. Komori T (Saitama)          | Motor neuron disease         |