HT-06 Hot Topics 06

May 23 (Thu) 15:35 ~ 17:35  Room 6 (Osaka International Convention Center 10F Conference Room 1009)

Neuroimaging diagnosis based on databases and AI in the near future

Chairs: Takashi Hanakawa
Department of Advanced Neuroimaging, National Center of Neurology and Psychiatry, Japan
Wataru Sako
Assistant Professor, Japan

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HT-06-1  Neuroimaging database and machine learning-based analysis for neurological disorders
Takashi Hanakawa
Integrative Brain Imaging Center, National Center of Neurology and Psychiatry, Japan
Towards Primates and Human Brain Connectome using Neuroimaging
Takuya Hayashi
RIKEN Center for Biosystems Dynamics Research, Japan

Neuroimaging and Informatics in Alzheimer's disease Research
Arthur W. Toga
USC Mark and Mary Stevens Neuroimaging and Informatics Institute, USA

Computational neuroscience for neuroimaging in psychiatry
Mitsuo Kawato
Director, ATR Brain Information Communication Research Laboratory Group, Japan

Hot Topics 07
May 23 (Thu) 15:35 ~ 17:35 Room 9 (Osaka International Convention Center 12F Conference Hall)

Recent Topics of Myelitis
Chairs: Fumiaki Tanaka
Department of Neurology and Stroke Medicine, Yokohama City University
Graduate School of Medicine
Ichiro Nakashima
Department of Neurology, Tohoku Medical and Pharmaceutical University

Pathogenesis and treatment of HTLV-1-associated myelopathy
Yoshihisa Yamano
Department of Rare Diseases Research, Institute of Medical Science, St. Marianna University School

Clinical features of acute flaccid myelitis
Keiko Tanaka-taya
Infectious Disease Surveillance Center, National Institute of Infectious Diseases

Role of anti-Plexin D1 antibody on the pathology of neuropathic pain in neurological disorders
Ryo Yamasaki
Department of Neurology, Neurological Institute, Graduate School of Medical Sciences, Kyushu University

Clinical features of anti-MOG-antibody related myelitis
Ichiro Nakashima
Department of Neurology, Tohoku Medical and Pharmaceutical University

Symposium
Borderland of Epilepsy

Chairs: Hiroshi Shigeto
Division of Medical Technology, Department of Health Sciences, Graduate School of Medical Sciences, Kyushu University
Kiyohito Terada
Shizuoka Institute of Epilepsy and Neurological Disorders

G-01-1 Sleep Disorders and Epilepsy
Yasunori Oka
Ehime University Hospital

G-01-2 Post-stroke epilepsy
Tomotaka Tanaka
National Cerebral and Cardiovascular Center / National University of Singapore

G-01-3 Dementia and epilepsy
Takashi Matsudaira
National Epilepsy Center, NHO Shizuoka Institute of Epilepsy and Neurological Disorders

G-01-4 Autoimmune epilepsy
Riki Matsumoto
Kobe University Graduate School of Medicine

Nominal support: Japan Epilepsy Society

Genome editing technology break new ground in neurology

Chairs: Takaomi Saido
RIKEN Center for Brain Science
Atsushi Iwata
The University of Tokyo Hospital Department of Neurology

S-08-1 Principles and applications of genome editing
Takashi Yamamoto
Department of Mathematical and Life Sciences, Graduate School of Science, Hiroshima University

S-08-2 Generation and analysis of knock-in mouse harboring SCA42 mutation using CRISPR/Cas9 system
Hiroyuki Morino
Department of Epidemiology, RIRBM, Hiroshima University

S-08-3 Exploration for protective variants in Alzheimer's disease using genome editing technology
Kenichi Nagata
Department of Precision Medicine for Dementia, Osaka University Graduate School of Medicine / Laboratory for Proteolytic Neuroscience, RIKEN Center for Brain Science
S-08-4 Highly efficient generation of multiple mutant Psen1 mouse lines utilizing base editing technology
Hiroki Sasaguri
Laboratory for Proteolytic Neuroscience, RIKEN Center for Brain Science

S-08-5 Therapeutic strategy for myotonic dystrophy using CRISPR/Cas9 genome editing
Fumiaki Saito
Teikyo University, School of Medicine, Department of Neurology

S-08-6 Development and therapeutic applications of in vivo genome-editing technology, HITI
Keiichiro Suzuki
Institute for Advanced Co-Creation Studies, Osaka University / Graduate School of Engineering Science, Osaka University

Nominal support: The Japanese Society for Genome Editing

S-09 Symposium 09

May 23 (Thu) 8:00 ~ 9:30 Room 4 (Osaka International Convention Center 10F Conference Room 1001-1002)

Multisystem proteinopathy as a novel clinical spectrum
Chairs: Masashi Aoki
Department of Neurology, Tohoku University School of Medicine
Satoshi Yamashita
Department of Neurology, Graduate School of Medical Sciences, Kumamoto University

S-09-1 Pathogenesis and therapeutic approach for MSP5 with MATR3 mutation
Satoshi Yamashita
Department of Neurology, Graduate School of Medical Sciences, Kumamoto University

S-09-2 Mutant hnRNPA1-linked multisystem proteinopathy type 3 (MSP3)
Hitoshi Warita
Department of Neurology, Tohoku University Hospital

S-09-3 Clinical and histopathological characteristics of MSP1 patients with the VCP mutation
Ryoichi Nakamura
Department of Neurology, Nagoya University Hospital
S-10 Symposium 10

May 23 (Thu) 8:00 ~ 9:30  Room 5 (Osaka International Convention Center 10F Conference Room 1005-1007)

How do we prevent burnout in neurologists?

Chairs: Kazuto Yoshida
Japanese Red Cross Asahikawa Hospital
Yoshiko Unno
Department of Stroke and Cerebrovascular Medicine, Kyorin University

S-10-1 Burnout: understanding and prevention
Makoto Kubo
Doshisha University Faculty of Policy Studies

S-10-2 Burnout syndrome in Japanese female neurologists
Ikuko Aiba
National Hospital Organization, Higashinagoya National Hospital

S-10-3 Burnout at university doctors
(Questionnaire analysis and recommendations)
Takashi Ogawa
Department of Neurology, Juntendo University Faculty of Medicine

S-10-4 Burnout of neurologists working in general hospital
- what is the problem and how to prevent?
Kenichi Kashihara
Department of Neurology, Okayama Kyokuto Hospital

S-10-5 Proposal from carrier support committee of JNS
Atsushi Takeda
Department of neurology, Sendai-Nishitaga Hospital

S-10-6 Leadership education as a strategy for physician burnout
Takayoshi Shimohata
Department of Neurology, Gifu University Graduate School of Medicine

S-11 Symposium 11

May 23 (Thu) 8:00 ~ 9:30  Room 9 (Osaka International Convention Center 12F Conference Hall)

Dystonia - early detection, early treatment

Chairs: Takahiro Mezaki
Department of Neurology, Sakakibara Hakuho Hospital
Ritsuko Hanajima
Division of Neurology, Department of Brain and Neurosciences, Faculty of Medicine, Tottori University

S-11-1 GLUT1 deficiency
Hideki Mochizuki
Department of Neurology, Osaka University Graduate School of Medicine

S-11-2 Biotin-Thiamine-Responsive Basal Ganglia Disease (BTBGD)
Satoko Kumada
Department of Neuropediatrics, Tokyo Metropolitan Neurological Hospital
Diagnosis and treatments for spasmodic dysphonia
Masamitsu Hyodo
Department of Otolaryngology, Kochi Medical School

Surgical management of focal hand dystonia
Takaomi Taira
Department of Neurosurgery, Tokyo Women's Medical University

The pitfalls of dystonia and botulinum toxin therapy
Takashi Sakamoto
National Center of Neurology and Psychiatry, Department of Neurology

Grow up with water, heal with water
Chairs: Hikoaki Fukaura
Saitama Medical Center, Saitama Medical University
Masahito Mihara
Department of Neurology, Kawasaki Medical School

The effects of the exercise therapy to make good Use of physical function of cerebrovascular disease
Kazu Mizuno
Japan Aquatic & Health Therapy Association

The effect and problems of swimming for the neurological diseases
Masashi Tsujimoto
Department of Neurology, National Center for Geriatrics & Gerontology

Prognosis of ischemic stroke and its determinants
Shinichi Takahashi
Neurology and Stroke, Saitama medical university International medical center

Prehospital strategy for endovascular treatment in acute stroke
Shigeru Fujimoto
Division of Neurology, Department of Medicine, Jichi Medical University

Imaging based selection for recanalization therapy in wake-up stroke
Sohei Yoshimura
Department of Cerebrovascular Medicine, National Cerebral and Cardiovascular Center
Is tPA necessary for hyperacute LVO treated by endovascular therapy?
Kentaro Suzuki
Nippon Medical School Department of Neurology

Next possible treatment for futile recanalization
Tatsuo Amano
Department of Stroke and Cerebrovascular Medicine Kyorin University

Endovascular recanalization more than 6 hours after onset
- Embolic and atherosclerotic occlusion -
Keisuke Imai
Department of Neurology and Stroke Treatment, Kyoto First Red Cross Hospital

Is the cell therapy in acute cerebral infarction clinically possible?
Shunya Takizawa
Division of Neurology, Department of Internal Medicine, Tokai University School of Medicine

Symposium 14

Dysautonomia and cognitive dysfunction in α-synucleinopathy
Chairs: Hisayoshi Oka
Department of Neurology, The Jikei University School of Medicine, Daisan Hospital
Masato Asahina
Neurology Clinic Tsudanuma

Autonomic disorders and cognitive / emotional disorders
Satoshi Umeda
Keio University, Department of Psychology

Dysautonomia and cognition in Parkinson's disease
Tadashi Umehara
Department of Neurology, The Jikei University School of Medicine

Autonomic failure and cognitive dysfunction in dementia with Lewy bodies
Masato Asahina
Neurology Clinic Tsudanuma

Autonomic failure and cognitive impairment in multiple system atrophy
Hirohisa Watanabe
Department of Neurology & Neuroscience, Fujita Health University

Autonomic nervous dysfunction and cognitive impairment in RBD
Renpei Sengoku
Department of Neurology and BBAR, Tokyo Metropolitan Geriatric Hospital
### Symposium 15

**Dementia and cognitive neurology: recent advances**

*Chairs:* Mikio Shoji  
Department of Neurology, Hirosaki University Graduate School of Medicine, Japan  
Mika Otsuki  
Graduate School of Health Sciences, Hokkaido University, Japan

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<th>Institution</th>
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<td>S-15-1</td>
<td>Recent advancement of cognitive batteries for Alzheimer's disease</td>
<td>Atsushi Iwata</td>
<td>The University of Tokyo Hospital Department of Neurology, Japan</td>
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<td>S-15-2</td>
<td>Neuropathology of primary progressive aphasia</td>
<td>Mari Yoshida</td>
<td>Institute for Medical Science of Aging, Aichi Medical University, Japan</td>
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<td>S-15-3</td>
<td>Neuroanatomy of Language and Primary Progressive Aphasia</td>
<td>Zachary A Miller</td>
<td>University of California, San Francisco, USA</td>
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<td>S-15-4</td>
<td>Logopenic variant primary progressive aphasia and progressive transcortical sensory aphasia</td>
<td>Michitaka Funayama</td>
<td>Department of Neuropsychiatry, Ashikaga Red Cross Hospital, Japan</td>
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### Symposium 16

**Insights into the disease concept and the boarder of NMOSD and MS**

*Chairs:* Brian, G. Weinshenker  
Dept of Neurology, Mayo Clinic Rochester, USA  
Tatsuro Misu  
Department of Neurology, Tohoku University Graduate School of Medicine, Japan

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<tr>
<td>S-16-1</td>
<td>THE HISTORY AND EVOLUTION OF NEUROMYELITIS OPTICA SPECTRUM DISORDERS</td>
<td>Brian G. Weinshenker</td>
<td>Dept of Neurology, Mayo Clinic Rochester, USA</td>
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<td>S-16-2</td>
<td>From the viewpoint of pathological study in MS</td>
<td>Izumi Kawachi</td>
<td>Dept. of Neurology, Brain Research Institute, Niigata University, Japan</td>
</tr>
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<td>S-16-3</td>
<td>From the viewpoint of clinical and epidemiological MS study in Japan</td>
<td>Katsuichi Miyamoto</td>
<td>Department of Neurology, Kindai University School of Medicine, Japan</td>
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</table>
S-16-4 Neuromyelitis optica: Taiwanese experience
Jen Jen Su
Department of Neurology, National Taiwan University Hospital, Taiwan

S-16-5 Insights into the concept and pathology of NMOSD and MS in association with AQP4 and MOG antibodies
Tatsuro Misu
Department of Neurology, Tohoku University, Japan

S-17 Symposium 17
May 23 (Thu) 15:35 ~ 17:35 Room 10 (Osaka International Convention Center 12F Grande Toque)

Mechanisms of novel pathogenic autoantibodies in chronic immune-mediated neuropathies
Chairs: Jun-ichi Kira
Department of Neurology, Neurological Institute, Graduate School of Medical Sciences, Kyushu University, Japan
Masahiro Sonoo
Department of Neurology, Teikyo University School of Medicine, Japan

S-17-1 Ultrastructure of CIDP: A role of autoantibodies to nodal or paranodal proteins in the pathogenesis
Haruki Koike
Department of Neurology, Nagoya University Graduate School of Medicine, Japan

S-17-2 Autoantibodies against nodes of Ranvier and paranodes in CIDP
Hidenori Ogata
Department of Neurology, Kyushu University Hospital, Japan

S-17-3 The ganglionic AChR antibodies in autoimmune autonomic ganglionopathy
Shunya Nakane
Department of Neurology, Kumamoto University Hospital, Japan / Department of Molecular Neurology and Therapeutics, Kumamoto University Hospital, Japan

S-17-4 Anti-plexinD1 antibody and painful neuropathy
Takayuki Fujii
Department of Neurology, Neurological Institute, Graduate School of Medical Sciences, Kyushu University, Japan
**S-18 Symposium 18**

May 23 (Thu) 15:35 ~ 17:35  Room 12 (Osaka International Convention Center 11F Conference Room 1101-1102)

**Preclinical pathogenesis and therapy for neurodegeneration**

**Chairs:** Masahisa Katsuno  
Department of Neurology, Nagoya University Graduate School of Medicine, Japan  
Noriko Nishikawa  
National Center of Neurology and Psychiatry, Japan

- **S-18-1** Preclinical biomarkers of Alzheimer's disease  
Akinori Nakamura  
Department of Clinical and Experimental Neuroimaging, National Center for Geriatrics and Gerontology, Japan

- **S-18-2** Preclinical pathogenesis of Parkinson's disease  
Noriko Nishikawa  
National Center of Neurology and Psychiatry, Japan

- **S-18-3** Preclinical pathogenesis and biomarkers of motor neuron diseases  
Masahisa Katsuno  
Department of Neurology, Nagoya University Graduate School of Medicine, Japan

- **S-18-4** RISCA: preclinical cohort of spinocerebellar ataxia  
Thomas Klockgether  
Department of Neurology, University of Bonn, Germany

**S-19 Symposium 19**

May 23 (Thu) 15:35 ~ 17:35  Room 13 (Osaka International Convention Center 8F Conference Room 801-802)

**Cross-talk between myologists and cardiologists - from basic science to bed side**

**Chairs:** Jun Shimizu  
Department of Neurology, Graduate School of Medicine, The University of Tokyo, Japan  
Masanori Takahashi  
Department of Functional Diagnostic Science, Osaka University Graduate School of Medicine, Japan

- **S-19-1** Navigating the sea of channelopathies in muscle  
Stephen C. Cannon  
David Geffen School of Medicine at UCLA, USA

- **S-19-2** Clinical features of Andersen-Tawil syndrome and periodic paralysis  
Norito Kokubun  
Department of Neurology, Dokkyo Medical University, Japan

- **S-19-3** Cardiac ion channelopathy as systemic disease especially complicated with neurological disorders  
Minoru Horie  
Center for Epidemiologic Research in Asia, Shiga University of Medical Sciences, Japan  
Department of Cardiovascular Medicine, Shiga University of Medical Science, Japan
Myopathies with cardiomyopathy: Pompe disease and Danon disease  
Kazuma Sugie  
Department of Neurology, Nara Medical University, Japan

Cardiac Transplantation for patients with muscular dystrophy  
Osamu Seguchi  
National Cerebral and Cardiovascular Center, Department of Transplant Medicine, Japan

Natural history study for preventative medicine for cardiac involvement of Becker muscular dystrophy  
Akinori Nakamura  
Department of Neurology, National Hospital Organization, Matsumoto Medical Center, Japan

Nominal support: The Japanese Circulation Society, Japanese Heart Rhythm Society

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**SP Special Program**

**May 23 (Thu) 8:50 ~ 9:30  Room 10 (Osaka International Convention Center 12F Grande Toque)**

Chair: Genjiro Hirose  
Department of Neurology, Neurological Center, Asanogawa General Hospital

**SP-1**

Augusta Klumpke; the first woman neurologist  
Makoto Iwata  
Medical Clinic Kakinokizaka

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**SS-01 Special Session 01**

**May 23 (Thu) 8:00 ~ 9:30  Room 8 (Osaka International Convention Center 10F Conference Room 1004)**

**NeuroCPC**

Chairs: Shigeo Murayama  
Department of Neurology and Neuropathology (the Brain Bank for Aging Research)  
Yuishin Izumi  
Department of Neurology, Tokushima University Hospital

**SS-01-1**

An 83-year-old female brain donor with gait disturbance and fall  
Mari Shibukawa  
Department of Neurology, Tokyo Metropolitan Geriatric Hospital  
Tomoyasu Matsubara  
The Brain Bank for Aging Research, Tokyo Metropolitan Geriatric Hospital and Institute of Gerontology

**SS-01-2**

Co-morbidity of Parkinson's disease and amyotrophic lateral sclerosis  
Yuishin Izumi  
Department of Neurology, Tokushima University Hospital  
Shigeo Murayama  
Department of Neuropathology, Tokyo Metropolitan Geriatric Hospital and Institute of Gerontology
**SS-02 Special Session 02**

May 23 (Thu) 8:00 ~ 9:30  Room 12 (Osaka International Convention Center 11F Conference Room 1101-1102)

**Influence of revising law to the total support for neurological intractable diseases**

Chairs: Tetsuo Komori  
National Hakone Hospital, Center for Neuromuscular and Intractable Disease  
Kouichi Mizoguchi  
Shizuoka Medical Center

**SS-02-1**  
Intractable disease health care provider system for neurological diseases  
Takafumi Miyachi  
National Hospital Organization, Yanai Medical Center

**SS-02-2**  
The questionnaire survey on clinical multidisciplinary team for intractable diseases  
Tatsuya Abe  
Department of Neurology, Center for Neuromuscular and Intractable diseases, National Hakone Hospital

**SS-02-3**  
How to balance work with neurological disease treatment  
Hina Uetake  
National Hospital Organization Matsumoto Medical Center

**SS-02-4**  
The picture of rehabilitation for intractable diseases  
Takayo Chuma  
Department of Rehabilitation Medicine, Shiga General Hospital

**SS-02-5**  
Current situation and challenges of measures against intractable/rare diseases  
Akiko Tanaka  
Ministry of Health, Labour and Welfare, Japan

**SS-03 Special Session 03**

May 23 (Thu) 8:00 ~ 9:30  Room 14 (Osaka International Convention Center 7F Conference Room 701-702)

**International tele-education on neurology: how to actively join tele-conference**

Chairs: Yasushi Kisanuki  
Department of Neurology, The Ohio State University Wexner Medical Center, USA  
Noriko Isobe  
Department of Neurological Therapeutics, Neurological Institute, Graduate School of Medical Sciences, Kyushu University, Japan

**SS-03-1**  
The Role of Teleneurology between Indonesia and Japan in Improving Neuroimmunology Knowledge  
Riwanti Estiasari  
Department of Neurology, Faculty of Medicine Universitas Indonesia, Indonesia
SS-03-2 Monthly teleconference on neuroimmunological diseases with Indonesia institutes: from Japanese side
Noriko Isobe
Department of Neurological Therapeutics, Neurological Institute, Graduate School of Medical Sciences, Kyushu University, Japan

SS-03-3 International education program from my experience: JSN, IFCN, MDS
Yoshikazu Ugawa
Department of Neuro-Regeneration, Fukushima Medical University, Japan

SS-03-4 International education on muscular diseases
Ichizo Nishino
Department of Neuromuscular Research, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Japan

SS-03-5 How to join English teleconference on neuroimmunological diseases
Yasushi Kisanuki
Department of Neurology, The Ohio State University Wexner Medical Center, USA

SS-04 Special Session 04
May 23 (Thu) 15:35 ~ 17:05 Room 1 (Osaka International Convention Center 5F Large Hall)

ANA Session
Chairs: Susumu Kusunoki
Department of Neurology, Kindai University Faculty of Medicine, Japan
Ryosuke Takahashi
Department of Neurology, Kyoto University Graduate School of Medicine, Japan

SS-04-1 The Future Practice of Neurology: Coordinated, Team-Care Models to Improve Outcomes in Populations
Barbara G. Vickrey
Icahn School of Medicine at Mount Sinai, USA

SS-04-2 Emerging neurological infections
Justin C. McArthur
Sheikh Khalifa Stroke Institute, Johns Hopkins University, USA / Department of Neurology, Johns Hopkins University School of Medicine, USA

SS-04-3 Emerging genetic and cellular insights into HSP pathogenesis
Craig Blackstone
Neurogenetics Branch, NINDS, US National Institutes of Health, USA