

## 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

- HT-06-2**    **Towards Primates and Human Brain Connectome using Neuroimaging**  
**Takuya Hayashi**  
 RIKEN Center for Biosystems Dynamics Research, Japan
- HT-06-3**    **Neuroimaging and Informatics in Alzheimer's disease Research**  
**Arthur W. Toga**  
 USC Mark and Mary Stevens Neuroimaging and Informatics Institute, USA
- HT-06-4**    **Computational neuroscience for neuroimaging in psychiatry**  
**Mitsuo Kawato**  
 Director, ATR Brain Information Communication Research Laboratory Group, Japan

**HT-07 Hot Topics 07****Jp**

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

- HT-07-1**    **Pathogenesis and treatment of HTLV-1-associated myelopathy**  
**Yoshihisa Yamano**  
 Department of Rare Diseases Research, Institute of Medical Science, St. Marianna University  
 School
- HT-07-2**    **Clinical features of acute flaccid myelitis**  
**Keiko Tanaka-taya**  
 Infectious Disease Surveillance Center, National Institute of Infectious Diseases
- HT-07-3**    **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
- HT-07-4**    **Clinical features of anti-MOG-antibody related myelitis**  
**Ichiro Nakashima**  
 Department of Neurology, Tohoku Medical and Pharmaceutical University

**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

**S-08 Symposium 08****Genome editing technology break new ground in neurology**

Chairs : Takaomi Saïdo

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**

Proposed symposium **Jp**

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

**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

**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

**S-11-3**    **Diagnosis and treatments for spasmodic dysphonia**

Masamitsu Hyodo

Department of Otolaryngology, Kochi Medical School

**S-11-4**    **Surgical management of focal hand dystonia**

Takaomi Taira

Department of Neurosurgery, Tokyo Women's Medical University

**S-11-5**    **The pitfalls of dystonia and botulinum toxin therapy**

Takashi Sakamoto

National Center of Neurology and Psychiatry, Department of Neurology

**S-12 Symposium 12****Jp**

May 23 (Thu) 8:00 ~ 9:00    Room 11 (Osaka International Convention Center 12F Conference Room 1202)

**Grow up with water, heal with water**

Chairs : Hikoaki Fukaura

Saitama Medical Center, Saitama Medical University

Masahito Mihara

Department of Neurology, Kawasaki Medical School

**S-12-1**    **The effects of the exercise therapy to make good Use of physical function of cerebrovascular disease**

Kazu Mizuno

Japan Aquatic &amp; Health Therapy Association

**S-12-2**    **the effect and problems of swimming for the neurological diseases**

Masashi Tsujimoto

Department of Neurology, National Center for Geriatrics &amp; Gerontology

**S-12-3**    **Prognosis of ischemic stroke and its determinants**

Shinichi Takahashi

Neurology and Stroke, Saimata medical university International medical center

**S-13 Symposium 13****Jp**

May 23 (Thu) 15:35 ~ 17:35    Room 3 (Osaka International Convention Center 10F Conference Room 1003)

**Acute treatment in cerebral Infarction ~new future developments~**

Chairs : Kazumi Kimura

Nippon Medical School, Department of Neurology

Kazunori Toyoda

National Cerebral and Cardiovascular Center

**S-13-1**    **Prehospital strategy for endovascular treatment in acute stroke**

Shigeru Fujimoto

Division of Neurology, Department of Medicine, Jichi Medical University

**S-13-2**    **Imaging based selection for recanalization therapy in wake-up stroke**

Sohei Yoshimura

Department of Cerebrovascular Medicine, National Cerebral and Cardiovascular Center

S-13-3 Is tPA necessary for hyperacute LVO treated by endovascular therapy?

Kentaro Suzuki  
Nippon Medical School Department of Neurology

S-13-4 Next possible treatment for futile recanalization

Tatsuo Amano  
Department of Stroke and Cerebrovascular Medicine Kyorin University

S-13-5 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

S-13-6 Is the cell therapy in acute cerebral infarction clinically possible?

Shunya Takizawa  
Division of Neurology, Department of Internal Medicine, Tokai University School of Medicine

#### S-14 Symposium 14

Proposed symposium Jp

May 23 (Thu) 15 : 35 ~ 17 : 35 Room 4 (Osaka International Convention Center 10F Conference Room 1001-1002)

### Dysautonomia and cognitive dysfunction in $\alpha$ -synucleinopathy

Chairs : Hisayoshi Oka  
Department of Neurology, The Jikei University School of Medicine, Daisan Hospital  
Masato Asahina  
Neurology Clinic Tsudanuma

S-14-1 Autonomic disorders and cognitive / emotional disorders

Satoshi Umeda  
Keio University, Department of Psychology

S-14-2 Dysautonomia and cognition in Parkinson's disease

Tadashi Umehara  
Department of Neurology, The Jikei University School of Medicine

S-14-3 Autonomic failure and cognitive dysfunction in dementia with Lewy bodies

Masato Asahina  
Neurology Clinic Tsudanuma

S-14-4 Autonomic failure and cognitive impairment in multiple system atrophy

Hirohisa Watanabe  
Department of Neurology & Neuroscience, Fujita Health University

S-14-5 Autonomic nervous dysfunction and cognitive impairment in RBD

Renpei Sengoku  
Department of Neurology and BBAR, Tokyo Metropolitan Geriatric Hospital

**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

**S-15-1****Recent advancement of cognitive batteries for Alzheimer's disease**

Atsushi Iwata

The University of Tokyo Hospital Department of Neurology, Japan

**S-15-2****Neuropathology of primary progressive aphasia**

Mari Yoshida

Institute for Medical Science of Aging, Aichi Medical University, Japan

**S-15-3****Neuroanatomy of Language and Primary Progressive Aphasia**

Zachary A Miller

University of California, San Francisco, USA

**S-15-4****Logopenic variant primary progressive aphasia and progressive transcortical sensory aphasia**

Michitaka Funayama

Department of Neuropsychiatry, Ashikaga Red Cross Hospital, Japan

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

Chairs : Brian G. Weinschenker

Dept of Neurology, Mayo Clinic Rochester, USA

Tatsuro Misu

Department of Neurology, Tohoku University Graduate School of Medicine,  
Japan**S-16-1****THE HISTORY AND EVOLUTION OF NEUROMYELITIS OPTICA SPECTRUM DISORDERS**

Brian G. Weinschenker

Dept of Neurology, Mayo Clinic Rochester, USA

**S-16-2****From the viewpoint of pathological study in MS**

Izumi Kawachi

Dept. of Neurology, Brain Research Institute, Niigata University, Japan

**S-16-3****From the viewpoint of clinical and epidemiological MS study in Japan**

Katsuichi Miyamoto

Department of Neurology, Kindai University School of Medicine, Japan



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**S-16-4** Neuromyelitis optica : Taiwanese experience

Jen Jen Su

Department of Neurology, National Taiwan University hospital, Taiwan

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**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

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**S-17 Symposium 17**

**En**

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

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**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

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**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

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**S-17-2** Autoantibodies against nodes of Ranvier and paranodes in CIDP

Hidenori Ogata

Department of neurology, Kyushu University Hospital, Japan

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**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

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**S-17-4** Anti-plexinDI antibody and painful neuropathy

Takayuki Fujii

Department of Neurology, Neurological Institute, Graduate School of Medical Sciences, Kyushu University, Japan

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**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

**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

S-19-4 Myopathies with cardiomyopathy: Pompe disease and Danon disease  
Kazuma Sugie  
Department of Neurology, Nara Medical University, Japan

S-19-5 Cardiac Transplantation for patients with muscular dystrophy  
Osamu Seguchi  
National Cerebral and Cardiovascular Center, Department of Transplant Medicine, Japan

S-19-6 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

**SP Special Program** **Jp**

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

**SS-01 Special Session 01** **Jp**

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

**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

**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 Isoe**  
 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 neurological diseases  
**Yasushi Kisanuki**  
 Department of Neurology, The Ohio State University Wexner Medical Center, USA

**SS-04 Special Session 04**

Proposed symposium **En**

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