

**Exploring genomic bases of neurological disease**

Chairs : Shoji Tsuji

Department of Molecular Neurology, Graduate School of Medicine, The University of Tokyo / International University of Health and Welfare

Takeshi Ikeuchi

Niigata University, Brain Research Institute

**OC-04-1 Exploring molecular bases of sporadic neurological diseases based on genome analyses -Overview-**

Shoji Tsuji

Department of Molecular Neurology, Graduate School of Medicine, The University of Tokyo / International University of Health and Welfare

**OC-04-2 Trans-layer omics analysis connects human genetic and phenotypic information**

Yukinori Okada

Department of Statistical Genetics, Osaka University Graduate School of Medicine

**OC-04-3 Medical Genomics Japan Variant Database(MGeND)**

Yasushi Okuno

Department of Biomedical Data Intelligence Graduate School of Medicine, Kyoto University

**OC-04-4 Genomic copy number variation in sporadic neurodegenerative disorder**

Yuka Hama

Department of Neurology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University

**OC-04-5 Genetic studies towards elucidation of molecular bases of sporadic neurodegenerative disease**

Jun Mitsui

Department of Molecular Neurology, University of Tokyo, Graduate School of Medicine

## Recent advances in noncoding RNA-involved neurodegeneration in ALS and SCA

Chairs : Yoshitaka Nagai

Department of Neurotherapeutics, Osaka University Graduate School of Medicine

Kinya Ishikawa

The Center for Personalized Medicine for Healthy Aging, Tokyo Medical and Dental University.

### HT-05-1 Nuclear body construction by long noncoding RNAs

Tetsuro Hirose

Institute for Genetic Medicine, Hokkaido University

### HT-05-2 Physiological function of paraspeckle nuclear bodies

Shinichi Nakagawa

Faculty of Pharmaceutical Sciences, Hokkaido University

### HT-05-3 Challenges toward treatment of repeat diseases with small molecules binding to repeat RNA

Kazuhiko Nakatani

Department of Regulatory Bioorganic Chemistry, The Institute of Scientific and Industrial Research, Osaka University

### HT-05-4 Molecular pathomechanisms and repeat associated non-ATG translation in C9orf72-linked ALS/FTD

Yoshitaka Nagai

Department of Neurotherapeutics, Osaka University Graduate School of Medicine

## Cutting edge and perspective of investigator-led clinical trials for neurological disorders in Japan

Chairs : Satoshi Kuwabara

Department of Neurology, Chiba University

Masashi Aoki

Department of Neurology, Tohoku University School of Medicine

### HT-06-1 Leuprorelin acetate for spinal and bulbar muscular atrophy

Masahisa Katsuno

Department of Neurology, Nagoya University Graduate School of Medicine

### HT-06-2 Development of a novel treatment for ALS using hepatocyte growth factor (HGF)

Hitoshi Warita

Department of Neurology, Tohoku University Hospital

### HT-06-3 Japanese eculizumab trial for Guillain-Barre syndrome

Satoshi Kuwabara

Department of Neurology, Chiba University

**HT-06-4** The breakthrough required for clinical trials of dementia  
 Keisuke Suzuki  
 Innovation Center for Clinical Research, National Center for Geriatrics and Gerontology

**HT-06-5** Current situation and future perspectives of drug development for neurological disorders  
 Ryosuke Araki  
 Pharmaceuticals and Medical devices Agency (PMDA) Office of New Drug 3

### S-18 Symposium 18

Jp

May 25 (Fri) 8:00 ~ 9:30

Room2 (Sapporo Geibunkan [Zuisetsu] 3F)

#### inherited dystonia-update

Chairs : Kazuko Hasegawa  
 National Hospital Organization, Sagami National Hospital  
 Yuishin Izumi  
 Department of Neurology, Tokushima University Hospital

**S-18-1** Hereditary paroxysmal dyskinesia  
 Toshitaka Kawarai  
 Department of Clinical Neuroscience, Institute of Biomedical Sciences, Tokushima University Graduate School

**S-18-2** ATP1A3-related disorders  
 Kazuko Hasegawa  
 National Hospital Organization, Sagami National Hospital

**S-18-3** Segawa disease and related disorders  
 Satoko Kumada  
 Department of Pediatrics, Tokyo Metropolitan Neurological Hospital

### S-19 Symposium 19

Proposed symposium Jp

May 25 (Fri) 8:00 ~ 9:30

Room4 (Sapporo Geibunkan [Reimei] 3F)

#### Pre-and inhospital stroke management for hyper acute stroke

Chairs : Yasuyuki Iguchi  
 Department of Neurology, the Jikei University School of Medicine  
 Shigeru Fujimoto  
 Division of Neurology, Department of Medicine, Jichi Medical University

**S-19-1** Pre-hospital stroke care in the United States  
 Ken Uchino  
 Cerebrovascular Center, Cleveland Clinic

**S-19-2** We are aiming at the world's quickest recanalization for acute stroke patients  
 Ryo Itabashi  
 Department of Stroke Neurology, Kohnan Hospital

S-19-3 Reducing door-to-needle time using MRI as a stroke screening tool under quality improvement process

Yuki Sakamoto

Department of Neurological Science, Graduate School of Medicine, Nippon Medical School

S-19-4 Development and trial of an ICT system (Task Calc. Stroke) to support acute stroke care

Shoji Matsumoto

Department of Neurology, Stroke Center, Kokura Memorial Hospital / Department of Neurology, Neurological Institute, Graduate School of Medical Sciences, Kyushu University

Co-hosted by: The Japan Stroke Society · The Japanese Society for Neuroendovascular Therapy

## S-20 Symposium 20

Jp

May 25 (Fri) 8:00 ~ 9:30

Room5 (Sapporo Geibunkan [Seiryu] 3F)

### Cutting-edge of genomic medicine essential for neurologist

Chairs : Tatsushi Toda

Department of Neurology, Graduate School of Medicine, The University of Tokyo

Yoshiki Sekijima

Department of Medicine (Neurology & Rheumatology), Shinshu University School of Medicine

S-20-1 IRUD (Initiative on Rare and Undiagnosed Diseases)

Yuji Takahashi

National Center of Neurology and Psychiatry

S-20-2 DIAN-J (Dominantly Inherited Alzheimer Network-Japan)

Hiroyuki Shimada

Osaka City University Graduate School of Medicine. Clinical Research Center for Dementia

S-20-3 Disease modifying therapy for spinal muscular atrophy and future prospects

Kayoko Saito

Institute of Medical Genetics, Tokyo Women's Medical University

S-20-4 Handling of genome information and genetic counseling in clinical research for at-risk persons

Yoshimitsu Fukushima

Shinshu University School of Medicine

**How do we prevent burnout in neurologists?**

Chairs : Kazuto Yoshida

Department of Neurology, Japanese Red Cross Asahikawa Hospital

Yoshiko Unno

Department of Stroke and Cerebrovascular Medicine, Kyorin University

**S-21-1 Status of burnout among the neurologist worldwide**

Takayoshi Shimohata

Department of Neurology and Geriatrics, Gifu University Graduate School of Medicine

**S-21-2 Burnout among neurology residents - problems and future measures**

Shoichiro Ando

Department of Neurology, Brain Research Institute, Niigata University

**S-21-3 How do we prevent burnout in neurologists in acute care hospital ?**

Daisuke Ishima

Department of Neurology Kitasato University, School of Medicine

**S-21-4 Burnout syndrome among Japanese female neurologists**

Ikuko Aiba

Department of Neurology, National Hospital Organization, Higashinagoya National Hospital

**S-21-5 Burnout issues and measures at university**

Nobutaka Hattori

Department of Neurology, Juntendo University

**Future perspective in Sports Neurology  
~ from basics to clinical practice ~**

Chairs : Masahito Mihara

Department of Neurology, Kawasaki Medical School

Motohiko Hara

Saitama Prefectural University

**S-22-1 Secrets of Neymar's football brain**

Eiichi Naito

Center for Information and Neural Networks, National Institute of Information and Communications Technology

**S-22-2 Occupational dystonia in sports: yips**

Noriaki Hattori

Endowed Research Department of Clinical Neuroengineering, Global Center for Medical Engineering and Informatics, Osaka University / Department of Neurology, Osaka University Graduate School of Medicine

S-22-3 Physical exercise and sports participation in patients with multiple sclerosis

Hirofumi Ochi

Department of Neurology and Geriatric Medicine, Ehime University Graduate School of Medicine

S-22-4 Para-sports for patients with muscular dystrophy

Tsuyoshi Matsumura

Department of Neurology, National Hospital Organization Toneyama National Hospital

## S-23 Symposium 23

En

May 25 (Fri) 8:00 ~ 9:30

Room8 (Royton Sapporo [Empress Hall] 2F)

### New frontier of epileptogenicity: translatability between basic and clinical fields

Chairs : Akio Ikeda

Department of Epilepsy, Movement Disorders and Physiology Kyoto University Graduate School of Medicine, Japan

Kazutaka Jin

Department of Epileptology, Tohoku University Graduate School of Medicine, Japan

S-23-1 Characterization of epileptogenic astrocytes

Schuichi Koizumi

Dept Neuropharmacol, Interdisciplinary Grad Sch Med, Univ Yamanashi, Japan

S-23-2 Glia and epileptogenicity from the clinical approach

Akio Ikeda

Department of Epilepsy, Movement Disorders and Physiology Kyoto University Graduate School of Medicine, Japan

S-23-3 A novel PET tracer for AMPA receptors to visualize epileptic focus

Takuya Takahashi

Department of Physiology, Yokohama City University, School of Medicine, Japan

S-23-4 Antagonists of AMPA receptor on epilepsy: from clinical point of view

Kiyohito Terada

NHO Shizuoka Institute of Epilepsy and Neurological Disorders, Japan

S-23-5 Very small dose of perampanel improved refractory cortical myoclonus

(Short Talk)  
adopted from  
free papers

Kazuki Oi

Department of Neurology, Kyoto University Graduate School of Medicine, Japan

Co-hosted by: The Japan Epilepsy Society

**Pathological basis and therapeutic strategy for neuropsychiatric symptoms**

Chairs : Hitoshi Shimada

Department of Functional Brain Imaging Research (DOFI), National Institute of Radiological Sciences (NIRS), National Institutes for Quantum and Radiological Science and Technology (QST), Japan

Amane Tateno

Department of Neuropsychiatry, Nippon Medical School, Japan

**S-24-1****Neuropsychiatric manifestations in movement disorders**

Taku Hatano

Department of Neurology, Juntendo University School of Medicine, Japan

**S-24-2****Neural basis of neuropsychiatric symptoms in dementia**

Hitoshi Shinotoh

Neurology Clinic Chiba, Japan / Department of Brain Functional Imaging Research, National Institute of Radiological Sciences, National Institutes for Quantum and Radiological Science and Technology, Japan

**S-24-3****Psychiatric symptoms following brain trauma: CTE and PD-TBI**

Amane Tateno

Department of Neuropsychiatry, Nippon Medical School, Japan

**S-24-4****Molecular mechanism and clinical practice of therapy for psychotic symptoms**

Takaaki Mori

Department of Neuropsychiatry, Ehime University Graduate School of Medicine, Japan

Co-hosted by: Japanese Psychogeriatric Society

**Neuromodulation and motor training using novel devices**

Chairs : Yumiko Kaseda

Department of Neurology, Hiroshima City Rehabilitation Hospital

Takashi Nakajima

Department of Neurology, NHO Niigata National Hospital

**S-25-1****Functional reconstruction viewed from neurophysiology**

Kaoru Takakusaki

Research Center for Brain Function and Medical Engineering

**S-25-2****BMI Neurorehabilitation for post-stroke severe upper extremity paralysis**

Meigen Liu

Department of Rehabilitation Medicine, Keio University School of Medicine

S-25-3 Cybernic treatment using "cyborg type robot Hybrid Assistive Limb (HAL) for medical use"

Takashi Nakajima

Department of Neurology, NHO Niigata National Hospital

S-25-4 TMS

Masahiro Abo

Department of Rehabilitation Medicine, The Jikei University School of Medicine

S-25-5 Utilizing biomarkers for enhancing poststroke motor recovery

Ichiro Miyai

Neurorehabilitation Research Institute, Morinomiya Hospital

Co-hosted by: Japanese Society for Neural Repair and Neurorehabilitation

## S-26 Symposium 26

Jp

May 25 (Fri) 13 : 45 ~ 15 : 45

Room6 (Sapporo Geibunkan [Gyokuyou] 3F)

### The latest in Charcot-Marie-Tooth disease -diagnosis and care-

Chairs : Hiroshi Takashima

Department of Neurology and Geriatrics, Kagoshima University Graduate School of Medical and Dental Sciences

Masanori Nakagawa

North Medical Center, Kyoto Prefectural University of Medicine

S-26-1 Establishment of Charcot-Marie-Tooth Patients Registry (CMTPR) system in Japan

Masanori Nakagawa

North Medical Center, Kyoto Prefectural University of Medicine

S-26-2 Surrogate markers for clinical trials in Charcot-Marie-Tooth disease

Yu-ichi Noto

Department of Neurology, Graduate School of Medical Science, Kyoto Prefectural University of Medicine

S-26-3 Progress and Future of Genetic Diagnosis of Charcot-Marie-Tooth Disease

Yuji Okamoto

Department of Neurology and Geriatrics, Kagoshima University Graduate School of Medical and Dental Sciences

S-26-4 Rehabilitation for Charcot-Marie-Tooth disease patients, with the aim of improving QOL

Yoko Kobayasi

National Center Hospital, National Center of Neurology and psychiatry, Department of Rehabilitation Medicine

Co-hosted by: Japanese Peripheral Nerve Society

**the "new wave" of CNS stimulation therapy**

Chairs : Hiroyuki Enomoto

Department of Neurology, Fukushima Medical University

Takashi Nagamine

Department of Systems Neuroscience, School of Medicine, Sapporo Medical University

**S-27-1 repetitive transcranial magnetic stimulation (rTMS):**

Parkinson disease

Hiroyuki Enomoto

Department of Neurology, Fukushima Medical University

**S-27-2 Reconstruction of walking via transvertebral magnetic stimulation in spinal cord injury patients**

Suguru Kadowaki

The Department of Neurology, Ohta Atami hospital

**S-27-3 Application of Magnetic Resonance Guided Focused Ultrasound (MRgFUS) for neurological diseases**

Masahito Mihara

Department of Neurology, Kawasaki Medical School

**S-27-4 Electrical stimulation therapy for epilepsy using implantable device**

Kensuke Kawai

Department of Neurosurgery, Jichi Medical University

**Cross-interaction of neuro-immune axis in autoimmune disorders of the CNS**

Chairs : Izumi Kawachi

Department of Neurology, Brain Research Institute, Niigata University, Japan

Ryo Yamasaki

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

**S-28-1 Revisiting glia as mothers and guardians of the central nervous system**

Ryo Yamasaki

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

**S-28-2 From yolk sac to neurodegeneration: the multiple facets of microglia**

Marco Prinz

University Freiburg, Institute of Neuropathology, Freiburg, Germany

**S-28-3 Cross-interaction of neuro-immune axis in multiple sclerosis**

Izumi Kawachi

Department of Neurology, Brain Research Institute, Niigata University, Japan

**S-28-4** Cross-interaction of neuro-immune axis in NMO and neuroinflammatory disorders with MOG antibodies

**Kazuo Fujihara**

Multiple Sclerosis & Neuromyelitis Optica Center, Southern TOHOKU Research Institute for Neuroscience, Japan / Department of Multiple Sclerosis Therapeutics, Fukushima Medical University School of Medicine, Japan

**S-28-5** TREM2 Maintains Microglial Metabolic Fitness in Alzheimer's Disease

**Marco Colonna**

Washington University School of Medicine, USA

Co-hosted by: The Japanese Society for Neuroimmunology

**S-29 Symposium 29**

**En**

May 25 (Fri) 13 : 45 ~ 15 : 45

Room9 (Royton Sapporo [Regent Hall] 2F)

**Alzheimer's disease up to date**

Chairs : **Koji Abe**

Department of Neurology, Okayama University, Japan

**Atsushi Iwata**

Department of Neurology, Graduate School of Medicine, The University of Tokyo, Japan

**S-29-1** Aducanumab and immunotherapy for the treatment of AD: what have we learnt from preclinical research?

**Thierry Bussière**

Alzheimer & Dementia Research Unit, Biogen, USA

**S-29-2** Pathogenesis of Abeta oligomers in Alzheimer's disease, and foresights for therapy

**Takeshi Kawarabayashi**

Department of Neurology, Institute of Brain Science, Hirosaki University Graduate School of Medicine, Japan

**S-29-3** Generation of mutant presenilin 1 mice using a novel RNA-guided base editing technology

(Short Talk)  
adopted from  
free papers

**Hiroki Sasaguri**

RIKEN Center for Brain Science, Japan / Department of Neurology and Neurological Science, Graduate School of Medicine, Tokyo Medical and Dental University, Japan

**S-29-4** Chronic cerebral hypoperfusion accelerates Alzheimer's pathology in a novel mouse model

**Toru Yamashita**

Department of Neurology, Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama University, Japan

**S-29-5** Tau aggregation mechanisms and therapeutic strategies for AD

**Masato Hasegawa**

Department of Dementia and Higher Brain Function, Tokyo Metropolitan Institute of Medical Science, Japan

Co-hosted by: Japan Society for Dementia Research

**The future prospects of board-certified neurologists in Japan**

Chairs : Ryosuke Takahashi

Department of Neurology, Kyoto University Graduate School of Medicine

Jun-ichi Kira

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

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**SP-01-1 Board-certified neurologist in the new system**

Susumu Kusunoki

Department of Neurology, Kindai University Faculty of Medicine

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**SP-01-2 Report statement of the board-certified neurologist issue review committee**

Jun-ichi Kira

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

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**SP-01-3 Activity Report of the Headquarter of Board-Certified Neurologist System Innovation**

Ryosuke Takahashi

Department of Neurology, Kyoto University Graduate School of Medicine