

**S-01 Symposium 01****Web En**

May 31 (Wed) 9:50 ~ 11:50 Room 03 (Makuhari Messe International Conference Hall 2F 201)

**The current update of restless legs syndrome;  
from mechanisms to treatment**

Chairs : Yuichi Inoue

Department of Somnology, Tokyo Medical University, Japan

Naoko Tachibana

Center for Sleep-related Disorders, Kansai Electric Power Hospital, Japan

**S-01-1 Development and Importance for the Animal model of Restless Legs Syndrome**

Kazuhiro Muramatsu

Pediatrics and Center for Gene Therapy Research, Jichi Medical University, Japan

**S-01-2 Working memory deficits in patients with restless legs syndrome**

Ki-young Jung

Department of Neurology, Seoul National University College of Medicine, Korea

**S-01-3 Seasonal Exacerbation of Subjective Symptoms in Patients with Restless Legs Syndrome**

Kentaro Matsui

Department of Clinical Laboratory, National Center Hospital, National Center of Neurology and Psychiatry, Japan

**S-01-4 Treatment strategy for long-term management of patients with restless legs syndrome**

Naoko Tachibana

Center for Sleep-related Disorders, Kansai Electric Power Hospital, Japan / Division of Sleep Medicine, Kansai Electric Power Medical Research Institute, Japan

**S-01-5 Difference in background factors between treatment responders to gabapentin enacarbil and placebo**

Yuichi Inoue

Department of Somnology, Tokyo Medical University, Japan / Yoyogi Sleep Disorder Center, Japan

**S-02 Symposium 02****Jp**

May 31 (Wed) 9:50 ~ 11:50 Room 05 (Makuhari Messe International Conference Hall 3F 304)

**Knowledge and practical skills in rehabilitation medicine with non-invasive nerve stimulation**

Chairs : Naoki Wada

Department of Rehabilitation Medicine Gunma University Graduate School of Medicine, Japan

Yoshitaka Yamanaka

Urayasu Rehabilitation Education Center, Chiba University Hospital, Japan

**S-02-1 Commonalities and differences of tDCS and rTMS:  
toward the optimal stimulation**

Noriaki Hattori

Department of Rehabilitation, Faculty of Medicine, Academic Assembly, University of Toyama, Japan

**S-02-2 Non-invasive brain stimulation for axial motor and non-motor symptoms in Parkinson's disease**

**Tomoo Mano**

Department of Rehabilitation Medicine, Nara Prefecture General Medical Center, Japan

**S-02-3 Transcutaneous spinal electrical stimulation for gait rehabilitation**

**Toshiyuki Fujiwara**

Department of Rehabilitation Medicine, Juntendo University Graduate School of Medicine, Japan

**S-02-4 Clinical applications of Quadripulse stimulation and Theta burst stimulation**

**Michiyuki Kawakami**

Department of Rehabilitation Medicine, Keio University School of Medicine, Japan

Nominal supported by: the Japanese Association of Rehabilitation Medicine

**S-03 Symposium 03**

**Web En**

May 31 (Wed) 9:50 ~ 11:50 Room 06 (Makuhari Messe International Conference Hall 3F 302)

**Overview of autoimmune peripheral neuropathies**

**Chairs : Norito Kokubun**

Department of Neurology, Dokkyo Medical University, Japan

**Ryo Yamasaki**

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

**S-03-1 Overview of Guillain-Barré syndrome (GBS)**

**Nortina Shahrizaila**

University of Malaya, Malaysia

**S-03-2 CIDP overview**

**Yu-ichi Noto**

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

**S-03-3 Treatment selection according to the pathophysiology of autoimmune nodopathy**

**Ryo Yamasaki**

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

**S-03-4 Vasculitic neuropathy: An overview**

**Ryota Sato**

Department of Neurology and Clinical Neuroscience, Yamaguchi University Graduate School of Medicine, Japan

**S-03-5 POEMS syndrome overview**

**Tomoki Suichi**

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

**S-04 Symposium 04****Jp**

May 31 (Wed) 9:50 ~ 11:50 Room 07 (Makuhari Messe International Conference Hall 3F 303)

**Let's talk about the future of young doctors' training**

Chairs : Masatomi Ikusaka

Department of General Medicine, Chiba University Hospital, Japan

Sonoko Misawa

Department of Neurology, Chiba University Graduate School of Medicine,  
Japan**S-04-1 Developing the young: messages from the field of general medicine**

Masatomi Ikusaka

Department of General Medicine, Chiba University Hospital, Japan

**S-04-2 Boundary between "education" and "harassment" from the perspective of an occupational physician**

Kensuke Yoshimura

Chiba University Hospital, Japan

**S-04-3 The career education for doctors under the work system reform**

Yukari Sekiguchi

Department of neurology, JR Tokyo General Hospital, Japan

**S-04-4 Strategies to protect junior neurologists from burnout**

Takashi Ogawa

Department of Radiology, Faculty of Medicine, Juntendo University, Japan

**S-05 Symposium 05****Jp**

May 31 (Wed) 9:50 ~ 11:50

Room 11 (Tokyo Bay Makuhari Hall 2F No.3, 4)

**Law, lawsuit and legal issue in neurology**

Chairs : Masayuki Ohira

Department of Clinical Laboratory, National Center of Neurology and  
Psychiatry National Center Hospital, Japan

Hiroyuki Ishiura

Department of Neurology, Okayama University, Japan

**S-05-1 Law, lawsuit and legal issue in neurology -Overview**

Takemori Yamawaki

Department of Neurology, Hiroshima Hakushima Hospital, Japan

**S-05-2 Legal Issues at the End of Life in Neurological Incurable Diseases**

Mieko Ogino

International University of Health and Welfare, School of Medicine, Office of Medical Education,  
Department of Neurology, Japan / International University of Health and Welfare, Ichikawa  
hospital, Department of Neurology, Japan**S-05-3 dementia and medical law**

Nobuya Kawabata

Yachiyo Hospital Dementia Treatment Center, Japan

- S-05-4** Common disease in neurology in terms of civil trials  
-Focusing on cerebral infarction and headache-

Ryo Sumioka

Jinho Law office, Japan

- S-05-5** The use of physical restraints and accidental fall of neurologic patients in the inpatient setting

Masayuki Ohira

Department of Clinical Laboratory, National Center of Neurology and Psychiatry (NCNP),  
Japan / Jinho Law Office, Japan

## **S-06 Symposium 06**

**Jp**

May 31 (Wed) 9:50 ~ 11:50

Room 12 (Tokyo Bay Makuhari Hall 2F No. 5, 6)

### **How should we do early diagnosis and early intervention for ALS?**

Chairs : Toshio Shimizu

Tokyo Metropolitan Neurological Hospital, Japan

Naoki Atsuta

Department of Neurology, Aichi Medical University School of Medicine,  
Japan

- S-06-1** Early clinical and electrophysiological diagnosis of amyotrophic lateral sclerosis

Toshio Shimizu

Department of Neurology, Tokyo Metropolitan Neurological Hospital, Japan

- S-06-2** An upper motor neuron sign and diagnostic criteria in amyotrophic lateral sclerosis

Kazumoto Shibuya

Department of Neurology, Chiba University Hospital, Japan

- S-06-3** Importance of genetic diagnosis in ALS

Ryoichi Nakamura

Department of Neurology, Aichi Medical University School of Medicine, Japan

- S-06-4** Early diagnosis of ALS: diagnostic approach from muscle pathology

Takashi Kurashige

Department of Neurology, National Hospital Organization Kure Medical Center and Chugoku  
Cancer Center, Japan

- S-06-5** The protective role of lipids and early nutritional intervention in ALS

Ryutaro Nakamura

Department of Neurology, Shiga University of Medical Science, Japan

- S-06-6** Early intervention for ALS:  
From the point of view of rehabilitation medicine

Mitsuya Morita

Jichi Medical University Hospital, Rehabilitation Center, Japan

## Pathogenesis of Parkinson's Disease

Chairs : Hideki Mochizuki

Department of Neurology, Osaka University, Japan

Ritsuko Hanajima

Division of Neurology, Department of Brain and Neurosciences, Faculty of Medicine, Tottori University, Japan

### S-07-1 Alpha-synuclein aggregates polymorphism and the molecular basis of diverse synucleinopathies

Ronald Melki

CEA-CNRS-University Paris Saclay, France

### S-07-2 Parkinson Disease Pathogenesis and Disease Modification

Ted M. Dawson

Johns Hopkins University School of Medicine, USA

### S-07-3 LRRK2, alpha-synuclein and lysosomal dysfunction in Parkinson's disease

Takeshi Iwatsubo

Department of Neuropathology, The University of Tokyo, Japan

### S-07-4 An update of the prion-like propagation hypothesis in Parkinson's disease

Yasuyoshi Kimura

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

## Which treatment should we select in MG!?

Chairs : Shigeaki Suzuki

Department of Neurology, Keio University School of Medicine, Japan

Akiyuki Uzawa

Graduate School of Medicine, Chiba University, Japan

### S-08-1 Tips for using steroids in patients with MG: oral prednisolone and intravenous methylprednisolone

Yukiko Ozawa

Japanese Red Cross Narita Hospital, Japan / Department of Neurology, Chiba University Hospital, Japan

### S-08-2 How do you use Tacrolimus vs. Cyclosporin?

Yoichiro Nishida

Department of Neurology and Neurological Science, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University (TMDU), Japan

### S-08-3 How to treat myasthenia gravis with intravenous immunoglobulin or plasmapheresis

Takamichi Sugimoto

Department of Clinical Neuroscience and Therapeutics, Hiroshima University Hospital, Japan

**S-08-4** Which is better!? ~Complement C5 inhibitors vs. neonatal Fc receptor (FcRn) inhibitors

Yuriko Nagane

Department of Neurology, Hanamaki General Hospital, Japan

**S-08-5** Current status of thymectomy for myasthenia gravis

Meinoshin Okumura

National Hospital Organization Osaka Toneyama Medical Center, Japan

## **S-09 Symposium 09**

**Jp**

May 31 (Wed) 13 : 20 ~ 15 : 20 Room 05 (Makuhari Messe International Conference Hall 3F 304)

### **Current status and prospects of stroke medical care expanding with AI support**

Chairs : Takao Urabe

Department of Neurology, Juntendo University Urayasu Hospital, Japan

Kazunori Toyoda

National Cerebral and Cardiovascular Center, Japan

**S-09-1** Diagnosis of Hemorrhagic Stroke by AI

Manabu Inoue

Division of Stroke Care Unit, National Cerebral and Cardiovascular Center, Japan

**S-09-2** AI Diagnosis of Ischemic Stroke

Soichiro Shibata

Division of Neurology, Department of Internal Medicine, St. Marianna University School of Medicine, Japan

**S-09-3** Prospects for post-stroke dementia prediction using AI

Kenji Ishii

Neuroimaging Research, Tokyo Metropolitan Institute for Geriatrics and Gerontology, Japan

**S-09-4** Evaluation of arteriosclerosis by artificial intelligence

Yuji Ueno

Department of Neurology, University of Yamanashi, Japan

**S-09-5** Study of Predicting Stroke Patients' Outcome using AI-analyzed Japan Stroke Data Bank

Sohei Yoshimura

Department of Cerebrovascular Medicine, National Cerebral and Cardiovascular Center, Japan

**S-10 Symposium 10****Jp**

May 31 (Wed) 13:20 ~ 15:20 Room 07 (Makuhari Messe International Conference Hall 3F 303)

**Hereditary leukodystrophies up to date**

Chairs : Satoko Kumada

Department of Neuropediatrics, Tokyo Metropolitan Neurological Hospital,  
Japan

Jun-ichi Takanashi

Department of Pediatrics, Tokyo Women's Medical University Yachiyo  
Medical Center, Japan**S-10-1 Elucidation of the pathogenesis of cerebral hypomyelinating leukodystrophy by genetic analysis**

Hirotomo Saitsu

Department of Biochemistry, Hamamatsu University School of Medicine, Japan

**S-10-2 MRI, MR spectroscopy in genetic white matter disorders**

Jun-ichi Takanashi

Department of Pediatrics, Tokyo Women's Medical University Yachiyo Medical Center, Japan

**S-10-3 Hereditary White Matter Diseases;  
Expanding Clinical Landscape, Frontiers of Treatment**

Hitoshi Osaka

Department of Pediatrics, Jichi Medical University, Japan

**S-10-4 Approaches to white matter abnormalities in adults**

Osamu Onodera

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

**S-11 Symposium 11****Jp**

May 31 (Wed) 13:20 ~ 15:20

Room 11 (Tokyo Bay Makuhari Hall 2F No.3, 4)

**State-of-the-art in electromyography and neuromuscular ultrasound supported by artificial intelligence**

Chairs : Tomihiro Imai

National Hospital Organization Hakone Hospital, Japan

Kenji Sekiguchi

Division of Neurology, Kobe University Graduate School of Medicine, Japan

**S-11-1 AI-based diagnostics of neuromuscular ultrasound**

Komei Shimozone

Department of Neurology, Tenri Hospital, Japan

**S-11-2 Quantitative muscle ultrasound for neuromuscular disease**

Kitaoji Takamasa

Department of neurology, Kyoto Prefectural University of Medicine, Japan

**S-11-3 Development of real-time quantitative muscle ultrasound analysis program using machine-learning**

Yoshikatsu Noda

Division of Neurology, Kobe University Graduate School of Medicine, Japan / Nakata Clinic,  
Japan

S-11-4

How detailed should we trace !? Usefulness of visualization of uncommon nerve by nerve ultrasound

Hiroki Yamazaki

Department of Neurology, Tokushima University Hospital, Japan

## S-12 Symposium 12

Jp

May 31 (Wed) 13 : 20 ~ 15 : 20

Room 14 (Tokyo Bay Makuhari Hall 2F No. 9, 10)

Innovations and achievements in diseases affecting the central nervous system brought in by extensive research on gut microbiota

Chairs : Takashi Yamamura

National Institute of Neuroscience, NCNP, Japan

Kinji Ohno

Neurogenetics, Nagoya University Graduate School of Medicine, Japan

S-12-1

Multiple sclerosis and gut microbiome

Takashi Yamamura

Department of Immunology, National Institute of Neuroscience, NCNP, Japan

S-12-2

Relationship between dementia and the gut microbiome

Naoki Saji

Center for Comprehensive Care and Research on Memory Disorders, National Center for Geriatrics and Gerontology, Japan

S-12-3

Parkinson's disease and gut microbiota

Kinji Ohno

Neurogenetics, Nagoya University Graduate School of Medicine, Japan

S-12-4

Mood disorders and gut microbiota

Hiroshi Kunugi

Department of Psychiatry, Teikyo University School of Medicine, Japan / Department of Mental Disorder Research, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Japan

S-12-5

Role of gut microbiota in the pathology of stress-related disorders

Nobuyuki Sudo

Department of Psychosomatic Medicine, Graduate School of Medical Sciences, Kyushu University, Japan



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

June 1 (Thu) 8:30 ~ 9:30 Room 01 (Makuhari Messe International Conference Hall 2F Convention Hall)

**Problem and perspectives for STOP, CerebroVascular Disease (CVD)  
Second Five-year Plan**

Chairs : Yoichiro Hashimoto

Stroke center, Saiseikai Kumamoto Hospital, Japan

Hidehiro Takekawa

Stroke center, Dokkyo Medical University, Japan

**S-13-1 Developing human resources for stroke care**

Ryo Itabashi

Division of Neurology and Gerontology, Department of Internal Medicine, School of Medicine,  
Iwate Medical University, Japan**S-13-2 Enhancement of the medical system**

Shigeru Fujimoto

Division of Neurology, Department of Medicine, Jichi Medical University, Japan

**S-13-3 Promoting the stroke registry project**

Masatoshi Koga

Department of Cerebrovascular Medicine, National Cerebral and Cardiovascular Center, Japan

**S-13-4 Enlightenment to the citizen for stroke prevention**

Yasuyuki Iguchi

Department of Neurology, the Jikei University School of Medicine, Japan

**S-13-5 Promotion of clinical and basic research**

Teruyuki Hirano

Department of Stroke and Cerebrovascular Medicine, Kyorin University, Japan

**S-14 Symposium 14****Web Jp**

June 1 (Thu) 8:00 ~ 9:30 Room 03 (Makuhari Messe International Conference Hall 2F 01)

**New developments in the pathogenesis of Alzheimer's disease**

Chairs : Takeshi Ikeuchi

Brain Research Institute, Niigata University, Japan

Kenjiro Ono

Department of Neurology, Kanazawa University Graduate School of Medical  
Sciences, Japan**S-14-1 New perspectives on glial pathology in Alzheimer Disease**

Taisuke Tomita

Graduate School of Pharmaceutical Sciences, The University of Tokyo, Japan

**S-14-2 Genome editing technologies and Alzheimer's disease**

Hiroki Sasaguri

RIKEN Center for Brain Science, Japan

**S-14-3 The evaluation of the environmental risk factors for dementia:**

Ishikawa Healthy Longevity Project

Moeko Shinohara

Department of Neurology, Kanazawa University Graduate School of Medical sciences, Japan

**S-14-4** Nucleic acid research on new AD pathology:  
development of nucleic acid aptamer and its application

**Kazuma Murakami**

Division of Food Science and Biotechnology, Graduate School of Agriculture, Kyoto University,  
Japan

**S-15 Symposium 15**

**Jp**

June 1 (Thu) 8:00 ~ 9:30 Room 04 (Makuhari Messe International Conference Hall 3F 301)

**Future of AI in neurological application: from basic research to clinical application**

Chairs : Hiroyuki Nodera

Neuromuscular disease center, Tenri Hospital, Japan

**Masahiro Takamura**

Department of Neurology, Shimane University, Japan

**S-15-1** Toward the development of AI-based dementia prediction systems

**Masahiro Takamura**

Department of Neurology, Shimane University Faculty of Medicine, Japan / Brain, Mind and  
KANSEI Sciences Research Center, Hiroshima University, Japan

**S-15-2** The future brought by state-of-the-art speech information processing

**Tomoki Toda**

Information Technology Center, Nagoya University, Japan

**S-15-3** Neuro-Rehabilitation using AI-aided brain-machine interface

**Junichi Ushiba**

Department of Biosciences and Informatics, Faculty of Science and Technology, Keio  
University, Japan

**S-15-4** **AI-guided automatic diagnostic system in nerve conduction study and electromyography**

**Hiroyuki Nodera**

Department of Neurology, Tenri Hospital, Japan

**S-16 Symposium 16**

**Jp**

June 1 (Thu) 8:00 ~ 9:30 Room 07 (Makuhari Messe International Conference Hall 3F 303)

**Telemedicine in home medical care in cooperation with neurologists and multidisciplinary medical professionals**

Chairs : Sonoko Nozaki

Kansai Rosai Hospital, Department of Neurology, Japan

**Mitsuru Doi**

National hospital organization tottori medical center, Japan

**S-16-1** Variety and Possibility of Online Tele-rehabilitation

**Sonoko Nozaki**

Kansai Rosai Hospital, Department of Neurology, Japan

**S-16-2** Online collaboration with physicians in home-visit rehabilitation

**Tetsuya Hirayama**

Relight Rehabilitation Visiting nursing station (physical therapist), Japan

**S-16-3** Needs of telemedicine from day care center staff and visiting medical staff

**Emiko Nishi**  
Taste and see, Japan

**S-16-4** Online Speech Rehabilitation

**Kayoko Otsuka**  
kuruminomori (Speech Therapist), Japan

**S-16-5** online nutritional management for patients with Parkinson's disease in Parkinson's disease center

**Mitsuru Doi**  
tottori medical center, Japan

## **S-17 Symposium 17**

**Jp**

June 1 (Thu) 8:00 ~ 9:30

Room 11 (Tokyo Bay Makuhari Hall 2F No.3, 4)

### **The World of Cerebral Small Vessel Disease Toward Aggressive Neurology with Cerebral Small Vessel Protection**

Chairs : **Toshiki Mizuno**  
Department of Neurology, Kyoto Prefectural University of Medicine, Japan  
**Osamu Onodera**  
Dep. Neurology, Brain Research Institute, Niigata Univ., Japan

**S-17-1** Introduction

**Osamu Onodera**  
Brain Research Institute, Dept. of Neurology, Niigata Univ., Japan

**S-17-2** A history of cerebral small vessel disease in Japan:  
From Binswanger disease to HTRA1 disease

**Toshio Fukutake**  
Department of Neurology Kameda Medical Center, Japan

**S-17-3** Type-1 cerebral small vessel disease: It's time to move on!

**Yusuke Yakushiji**  
Department of Neurology, Kansai Medical University, Japan

**S-17-4** Cerebral amyloid angiopathy

**Akihiko Ueda**  
Department of Neurology, Graduate School of Medical Sciences, Kumamoto University, Japan

**S-17-5** HTRA1-related cerebral small vessel disease

**Masahiro Uemura**  
Department of Neurology, Brain Research Institutes, Niigata University, Japan

**S-17-6** Pathologic analysis for a better understanding of the cerebral small vessel disease

**Rie Saito**  
Department of Pathology, Brain Research Institute, Niigata University, Japan

**Transition from child to adult health care services for people with neurological diseases: current status and issues**

Chairs : Yoko Mochizuki

Department of Neurology, Tokyo Metropolitan Kita Medical and Rehabilitation Center for the Disabled, Japan

Katsuhisa Ogata

National Hospital Organization Higashisaitama National Hospital, Japan

**S-18-1****Pediatric-Adult Transitional Medicine in Epilepsy : current state and future prospect**

Akio Ikeda

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

**S-18-2****Pediatric-adult transition medicine in movement disorders**

Kazuko Hasegawa

NHO Sagamiara National Hospital, Japan

**S-18-3****Proposal for transitional medical support based on the survey of neurological diseases in Chiba**

Moeko Hino

Department of Pediatrics, Chiba University, Japan

**S-18-4****Current Status and Issues of Pediatric-Adult Transition: Questionnaire survey for Members of the JSN**

Toshio Saito

Division of Child Neurology, Department of Neurology, National Hospital Organization Osaka Toneyama Medical Center, Japan / The Special Committee for Measures Against Transition from Pediatric to Adult Health Care, Japanese Society of Neurology, Japan

Nominal supported by: The Japanese Society of Child Neurology

**Management of Cervical spondylosis by neurologists**

Chairs : Tetsuo Ando

Kameda Medical Center, Japan

Eiji Matsumura

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

**S-19-1****The reasons why neurologist should treat cervical spondylosis**

Tetsuo Ando

Kameda Medical Center, Japan

**S-19-2****Differential diagnosis of cervical spondylosis**

Takashi Kameyama

Department of Neurology, Chubu Rosai Hospital, Japan

**S-19-3** Utility of electrophysiological examinations in the differential diagnosis of cervical spondylosis

**Takamichi Kanbayashi**

Teikyo University School of Medicine, Japan

**S-19-4** ASK YOUR FAVOR FROM SPINE SURGEON TO NEUROLOGIST FOCUSED ON MYELOPATHY

**Yukihiro Matsuyama**

Department of Orthopaedic Surgery Hamamatsu University School of Medicine, Japan

## **S-20 Symposium 20**

**Web En**

**June 1 (Thu) 15 : 35 ~ 17 : 35 Room 03 (Makuhari Messe International Conference Hall 2F 201)**

### **Road to new treatments for autoimmune peripheral neuropathy**

**Chairs : Kenichi Kaida**

Dept. of Neurology, Saitama Medical Center, Saitama Medical University, Japan

**Masahiro Iijima**

Pfizer Japan Inc., Japan

**S-20-1** POEMS syndrome and thalidomide

**Sonoko Misawa**

Department of Neurology, Chiba University graduate School of Medicine, Japan

**S-20-2** CIDP and rituximab

**Masahiro Iijima**

Department of Advanced Medicine, Nagoya University Hospital, Japan

**S-20-3** Anti-MAG neuropathy and specific adsorbents against HNK-1 epitopes

**Masanori Nakajima**

Department of Neurology, Kyorin University School of Medicine, Japan

**S-20-4** Clinical development of Efgartigimod and ARGX-117 for Treatment of Neurological Diseases

**Peter Ulrichs**

Chief Scientific Officer, argenx BV, Belgium

## Common Pathological Mechanisms of Psychiatric and Neurodegenerative Diseases Approached from Brain Energy Metabolism and Astrocytes

Chairs : Hirohisa Watanabe  
Fujita Health University, Japan  
Yuhei Takado  
National Institutes for Quantum Science and Technology, Japan

### S-21-1 Energy Metabolic Disorders and Neurodegenerative Diseases as Viewed by Brain Imaging and Biomarkers

Hirohisa Watanabe  
Department of Neurology, Fujita health University School of Medicine, Japan

### S-21-2 Abnormal glucose metabolism in mouse models of psychiatric and neurological disorders

Shinobu Hirai  
Brain Metabolic Regulation Group, Frontier Laboratory, Department of Psychiatry and Behavioral Sciences, Tokyo Metropolitan Institute of Medical Science, Japan

### S-21-3 Brain Energy Metabolism imaging to elucidate Astrocyte dysfunction in dementia

Yuhei Takado  
Institute for Quantum Life Science, National Institutes for Quantum Science and Technology, Japan

### S-21-4 Therapeutic potentials of astrocyte GPCR signaling for neurodegenerative diseases

Jun Nagai  
RIKEN Center for Brain Science, Laboratory for Glia-Neuron Circuit Dynamics, Japan

## Seeing is believing: journey to identify culprit in ALS

Chairs : Koji Yamanaka  
Research Institute of Environmental Medicine, Nagoya University, Japan  
Masahisa Katsuno  
Department of Neurology, Nagoya University Graduate School of Medicine, Japan

### S-22-1 Autoregulation of TDP-43

Akihiro Sugai  
Department of Molecular Neuroscience, Brain Research Institute, Niigata University, Japan

### S-22-2 Using patient derived data and modeling to guide ALS drug development

~~Neta Zach~~ Hidenori Kamiguchi, Akiyoshi Kunugi  
Takeda Pharmaceutical Company Limited, ~~USA~~

**S-22-3 Molecular basis underlying TDP-43 pathology in ALS****Koji Yamanaka**

Research Institute of Environmental Medicine, Nagoya University, Japan

**S-22-4 Unveiling a novel role of phosphorylation of TDP****Yohei Iguchi**

Department of Neurology, Japan

**S-22-5 The expression of STMN2 is associated with the TARDBP exon splicing in TDP-43 proteinopathy**adapted from  
free papers**Takuma Yamagishi**

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

**S-23 Symposium 23****Jp**

June 1 (Thu) 15:35 ~ 17:35 Room 07 (Makuhari Messe International Conference Hall 3F 303)

**Neurological dysfunction in post COVID-19 condition/Long COVID: Future issues and countermeasures for neurologists**Chairs : **Hideto Nakajima**

Nihon University, Neurology, Japan

**Motohiro Yukitake**

Kouhoukai Takagi Hospital, Japan

**S-23-1 COVID-19:Up to date****Norio Ohmagari**

National Center for Global Health and Medicine Hospital, Japan

**S-23-2 Neurological symptoms, occurrence, and risks of Long COVID****Hideto Nakajima**

Division of Neurology, Department of Medicine, Nihon University, Japan

**S-23-3 Diagnosis and clinical practice of long COVID****Hidehiro Mizusawa**

National Center of Neurology and Psychiatry, Japan

**S-23-4 Pathogenesis of Long COVID****Takayoshi Shimohata**

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

**S-23-5 Long COVID and myalgic encephalomyelitis/chronic fatigue syndrome (ME/CFS)****Wakiro Sato**

National Center of Neurology and Psychiatry, Institute of Neuroscience, Dept of Immunology, Japan

**S-23-6 Preventions, Treatments and Future Topics of Discussion of Long COVID****Akihiro Ueda**

Fujita Health University Okazaki Medical Center, Internal Medicine, Department of Neurology, Japan / Fujita Health University School of Medicine, Department of Neurology, Japan

**S-24 Symposium 24****Jp**

June 1 (Thu) 15:35 ~ 17:35

Room 11 (Tokyo Bay Makuhari Hall 2F No.3, 4)

**Curable dystonia!~recent advance**

Chairs : Kazuko Hasegawa

Department of Neurology, National Hospital Organization, Sagami-hara  
National Hospital, Japan

Ryosuke Miyamoto

Department of Neurology, Tokushima University Hospital, Japan

**S-24-1 Advances in understanding genetic dystonias and botulinum toxin therapy**

Ryosuke Miyamoto

Department of Neurology, Tokushima University, Japan

**S-24-2 The landscape of Intrathecal Baclofen Infusion Therapy for a Dystonia case**

Daitoku Mishima

National Hospital Organization National Sagami-hara Hospital Department of Neurosurgery,  
Japan**S-24-3 Stereotactic neurosurgery for dystonia  
-Recent progress and future challenges-**

Hideo Mure

Center for Neuromodulation, Kurashiki Heisei Hospital, Japan / Department of Neurosurgery,  
Kurashiki Heisei Hospital, Japan**S-24-4 Pathophysiology of Musicians' Dystonia**

Shinichi Furuya

Sony Computer Science Laboratories Inc., Japan

Symposium

**S-25 Symposium 25****Jp**

June 1 (Thu) 15:35 ~ 17:35

Room 13 (Tokyo Bay Makuhari Hall 2F No. 7, 8)

**Autoimmune myositis - How much is known?**

Chairs : Ichizo Nishino

Department of Neuromuscular Research, National Institute of Neuroscience,  
NCNP, Japan

Tsuyoshi Matsumura

National Hospital Organization Osaka Toneyama Medical Center, Japan

**S-25-1 Inclusion body myositis: an update on pathogenesis**

Akinori Uruha

Department of Neurology, Tokyo Metropolitan Neurological Hospital, Japan

**S-25-2 Recent findings in immune-mediated necrotizing myopathy**

Akatsuki Kubota

Department of Neurology, The University of Tokyo, Japan



**S-25-3** Is the pathogenesis of dermatomyositis different for each myositis-specific autoantibody?**Naoko Okiyama**

Department of Dermatology, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University, Japan

**S-25-4** What is antisynthetase syndrome or additional subsets?**Shigeaki Suzuki**

Department of Neurology, Keio University School of Medicine, Japan

**S-25-5** Targeting muscle fiber necroptosis for treatment of inflammatory myopathies**Mari Kamiya**

Department of Rheumatology, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University (TMDU), Japan

**S-26 Symposium 26****Web Jp****June 2 (Fri) 8:00 ~ 9:30 Room 01 (Makuhari Messe International Conference Hall 2F Convention Hall)****Expansion of repeat expanded diseases by neurogenetics****Chairs : Masayuki Nakamori**

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

**Wataru Satake**

Dept Neurol, The Univ of Tokyo, Japan

**S-26-1** Repeat conformation heterogeneity in CANVAS**Satoko Miyatake**

Department of Clinical Genetics, Yokohama City University Hospital, Japan

**S-26-2** Targeting Expanded Repeats by Small Molecules in Huntington's Disease and DRPLA**Masayuki Nakamori**

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

**S-26-3** Regulation of RAN translation in C9orf72-FTD/ALS**Kohji Mori**

Psychiatry, Osaka University Graduate School of Medicine, Japan

**S-26-4** Understanding the pathogenesis of SCA31**Kinya Ishikawa**

The Center for Personalized Medicine for Healthy Aging, Tokyo Medical and Dental University, Japan / Department of Personalized Genomic Medicine for Health, Graduate School, Tokyo Medical and Dental University, Japan / Department of Neurology and Neurological Science, Graduate School, Tokyo Medical and Dental University, Japan

**Direct connection of medical care to patients:  
telemedicine spreads to the future**

Chairs : Atsushi Nagai

Internal Medicine III, Shimane University Faculty of Medicine, Japan

Genko Oyama

Department of Neurology, Juntendo University, Japan

**S-27-1 Teleneurology, Current status and Perspective**

Yasuhiro Hasegawa

Stroke Center, Shin-Yurigaoka General Hospital, Japan

**S-27-2 Current status and future perspective of the interactive 3-dimensional  
telemedicine**

Genko Oyama

Juntendo University Faculty of Medicine, Department of Neurology, Japan

**S-27-3 Academic Ophthalmologist Establishes Medical AI Company**

Hidenori Takahashi

Department of Ophthalmology, Jichi Medical University, Japan

**S-27-4 Non-invasive brain machine interfaces based on  
electroencephalography**

Natsue Yoshimura

Department of Computer Science, School of Computing, Tokyo Institute of Technology, Japan /  
ATR Brain Information Communication Research Laboratory Group, Japan**Prospects and Challenges of Developing Individualized Medicine for  
Neurological Rare Diseases**

Chairs : Hidehiro Mizusawa

National Center of Neurology and Psychiatry, Japan

Tojo Nakayama

Harvard Medical School, Boston Children's Hospital, USA

**S-28-1 Individualized medicine with antisense oligonucleotides for  
neurological disorders**

Tojo Nakayama

Harvard Medical School Boston Children's Hospital, USA / Tokyo Medical and Dental  
University, Japan**S-28-2 Accomplishment of Initiative on Rare and Undiagnosed Diseases  
(IRUD) and perspectives towards cures**

Yuji Takahashi

Department of Neurology, National Center Hospital, National Center of Neurology and  
Psychiatry, Japan

**S-28-3** Challenges and Prospects for Nonclinical Safety Evaluation of ONTs for Application to Rare Diseases

Yoko Hirabayashi

National Institute of Health Sciences, Japan

**S-28-4** Challenges towards N-of-one medicine from a view point of Industry

Yasushi Kajii

T-CiRA Discovery and Innovation, Takeda Pharmaceutical Company Limited, Japan

**S-29 Symposium 29**

**Web En**

June 2 (Fri) 8:00 ~ 9:30 Room 06 (Makuhari Messe International Conference Hall 3F 302)

**Women in Neurology in the USA and Japan**

Chairs : Vanda A. Lennon

Department of Neurology, Mayo Clinic, USA

Izumi Kawachi

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

**S-29-1** A woman's journey in translational neuroscience in Australia and North America

Vanda A. Lennon

Department of Neurology, Mayo Clinic, USA

**S-29-2** Female neurologists in Japan as the first baby-boomer generation

Keiko Tanaka

Dept. Animal Model Development, Brain Research Institute, Niigata University, Japan /Dept.

Multiple Sclerosis Therapeutics, Fukushima Medical University, School of Medicine, Japan

**S-29-3** Women in Neurology in Japan since 1990s

Ritsuko Hanajima

Division of Neurology, Department of Brain and Neurosciences, Faculty of Medicine, Tottori University, Japan

**S-29-4** Women in Neurology in Japan in future

Yukiko Hayashi

Department of Pathophysiology, Tokyo Medical University, Japan

Nominal supported by: The Japanese Society of Internal Medicine

**The Dawn of A New Era - Therapy for GNE Myopathy**

Chairs : Madoka Mori-yoshimura

Department of Neurology, National Center Hospital, National, National  
Center of Neurology and Psychiatry, Japan

Naoki Suzuki

Department of Neurology, Tohoku University Hospital, Japan

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**S-30-1 Distal myopathy - an overview**

Ichizo Nishino

Department of Neuromuscular Research, National Institute of Neuroscience, National Center of  
Neurology and Psychiatry, Japan**S-30-2 Clinical characteristics and differential diagnosis of GNE myopathy**

Madoka Mori-yoshimura

Department of Neurology, National Center Hospital, National Center of Neurology and  
Psychiatry, Japan**S-30-3 Clinical trials of GNE myopathy in Japan**

Naoki Suzuki

Department of Neurology, Tohoku University Hospital, Japan

**S-30-4 N-acetylmannosamine (ManNAc) in GNE myopathy:  
clinical trials and future prospects**

May Christine V. Malicdan

National Institute of Health Undiagnosed Diseases Program, USA / Medical Genetics Branch,  
National Human Genome Research Institute, USA**S-30-5 Mutation profile of GNE Gene in Chinese cohort with GNE Myopathy:  
an update**

Wen-hua Zhu

Department of Neurology, Huashan Hospital Fudan University, China / National Center for  
Neurological Disorders (NCND), China / Huashan Rare Disease Center, Shanghai Medical  
College, Fudan University, China**S-30-6 Therapy development for GNE myopathy beyond oral sialic acid  
supplementation**

Wakako Yoshioka

National Center of Neurology and Psychiatry (NCNP), Japan

Nominal supported by: Japan Muscle Society

## Lessons Learned from Imaging on Clinical Issues in Parkinson's Disease and related disorders

Chairs : Yasuomi Ouchi

Hamamatsu University School of Medicine, Department of Biofunctional Imaging, Japan

Hitoshi Shimada

Department of Functional Neurology & Neurosurgery, Center for Integrated Human Brain Science, Brain Research Institute, Niigata University, Japan

S-31-1

### Clinical issues in Parkinson's Disease and Related disorders

Francisco Cardoso

The Federal University of Minas Gerais, Brazil

S-31-2

### Challenges and Future Prospects for Diagnostic Imaging and Biomarker of PD and Atypical Parkinsonism

Taku Hatano

Department of Neurology, Juntendo University Faculty of Medicine, Japan

S-31-3

### Gait-combined closed-loop brain stimulation can improve walking dynamics in Parkinson's disease

Yoshino Ueki

Department of Rehabilitation medicine, Nagoya City University Graduate School of Medicine, Japan

S-31-4

### Pathophysiological Imaging of PD and APS

#### -Toward Realization of Disease-Modifying Therapies-

Hitoshi Shimada

Department of Functional Neurology & Neurosurgery, Center for Integrated Human Brain Science, Brain Research Institute, Niigata University, Japan / Department of Functional Brain Imaging, Institute for Quantum Medical Science, Institutes for Quantum and Radiological Science and Technology, Japan / Department of Neurology, Chiba University, Japan

Nominal supported by: Movement Disorder Society of Japan

## Functional neurological disorders: updates and the role of neurologists

Chairs : Jon Stone

The University of Edinburgh, UK

Masahiro Sonoo

Department of Neurology, Teikyo University School of Medicine, Japan

S-32-1

### Functional weakness

Masahiro Sonoo

Department of Neurology, Teikyo University School of Medicine, Japan

S-32-2

### Functional Movement disorders: The Role of Neurologists

Masahiko Tomiyama

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

S-32-3

Functional Neurological Disorder (FND)  
- an overview and "the assessment as treatment"

Jon Stone

University of Edinburgh, UK

S-33 Symposium 33

Jp

June 3 (Sat) 8 : 00 ~ 10 : 00 Room 04 (Makuhari Messe International Conference Hall 3F 301)

The forefront of development in collaboration with the regulatory  
authorities and ARO in neurological disorders.

Chairs : Masashi Aoki

Department of Neurology, Tohoku University School of Medicine, Japan

~~Harumasa Nakamura~~ Takashi Moritoyo

~~Department of Clinical Research Support—Clinical Research & Education~~

~~Promotion Division, National Center Hospital National Center of Neurology~~

~~and Psychiatry, Japan~~ Clinical Research Promotion Center, The University of Tokyo  
Hospital, Japan

S-33-1

Public support for medical research and development

Yuko Masamura

Ministry of Health, Labour and Welfare, Japan

S-33-2

Current trends in newly drug development for neurological diseases

Masahiro Uemura

Office of new drug 2, Pharmaceuticals and Medical Devices Agency, Japan

S-33-3

Research and Development in Academia Supported by ARO

Takashi Moritoyo

Clinical Research Promotion Center, The University of Tokyo Hospital, Japan

S-33-4

~~The Road to New Drug Approval, based on our experience~~

~~Harumasa Nakamura~~

Withdrawn

~~Clinical Research & Education Promotion Division, National Center Hospital National Center of  
Neurology and Psychiatry, Japan~~

S-33-5

Expectations for Academia in clinical development of Neurology  
- Pharmaceutical company's viewpoint

Yoko Fujimoto

Pfizer, Japan

3

Symposium

**Current Progress in Reproductive Medicine and Neurology**

Chairs : Shigeo Murayama

United Graduate School of Child Development, Japan

Ryosuke Takahashi

Department of Neurology, Kyoto University Graduate School of Medicine,  
Japan**S-34-1 Hot topics, the Japanese Society of Neuropathology**

Shigeo Murayama

United Graduate School of Child Development, Japan / Tokyo Metropolitan Institute of  
Geriatrics and Gerontology, Japan**S-34-2 Pathophysiological analysis of neurological diseases and drug  
discovery using iPSCs technology**

Hideyuki Okano

Department of Physiology, Keio University School of Medicine, Japan

**S-34-3 An Invitation to Basic Neuroscience Research  
- To Change a Game**

Michisuke Yuzaki

Dept. Physiol, Keio Univ. Sch. Med., Japan

**S-34-4 Hot topics in Japanese Society for Biological Psychiatry**

Tadafumi Kato

Department of Psychiatry and Behavioral Science, Juntendo University Graduate School of  
Medicine, JapanNominal supported by: Japanese Society of Neuropathology /  
Japanese Society for Neurochemistry / Japan Neuroscience Society /  
Japanese Society of Biological Psychiatry**Present and future of Segawa Disease;  
50th memorial symposium for discover of Segawa disease**

Chairs : Yasuo Terao

Department of Medical Physiology, Kyorin University, Japan

Kyoko Hoshino

Segawa Memorial Neurological Clinic for Children, Japan

**S-35-1 Decoding the initial process of the establishment of Segawa's disease  
from his medical records**

Masaya Kubota

Department of Pediatrics, Shimada Ryoiku Medical Center for Challenged Children, Japan

**S-35-2 Basal ganglia pathophysiology of Segawa's disease as studied by  
saccade recording**

Yasuo Terao

Department of Medical Physiology, Kyorin University, Japan

**S-35-3** Pathophysiology of Segawa's disease analyzed by bipterin-deficient mice

Hiroshi Ichinose

School of Life Science and Technology, Tokyo Institute of Technology, Japan

**S-35-4** Clinical variations of Segawa disease -based on national survey result-

Kyoko Hoshino

Segawa Memorial Neurological Clinic for Children, Japan

## **S-36 Symposium 36**

**Jp**

June 3 (Sat) 8:00 ~ 10:00

Room 11 (Tokyo Bay Makuhari Hall 2F No.3, 4)

### **Differential diagnosis of neuropathies that lead to treatment**

Chairs : Haruki Koike

Division of Neurology, Department of Internal Medicine, Faculty of Medicine, Saga University, Japan

Yu-ichi Noto

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

**S-36-1** Differential diagnosis of neuropathy by electrophysiological examination

Tomohiko Nakamura

Department of neurology, Hamamatsu University Hospital, Japan

**S-36-2** Differential diagnosis of peripheral neuropathy in pathology

Ryota Sato

Department of Neurology and Clinical Neuroscience, Yamaguchi University Graduate School of Medicine, Japan

**S-36-3** Drug-induced, metabolic, and nutritional neuropathies frequently encountered in daily practice

Haruki Koike

Division of Neurology, Department of Internal Medicine, Faculty of Medicine, Saga University, Japan

**S-36-4** The Need for Early Diagnosis and Current Treatment in Hereditary Neuropathies

Yoshiki Sekijima

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



**Dawn of Telestroke**

Chairs : Yasuhiro Hasegawa

Stroke Center, Shin-yurigaoka General Hospital, Japan

Shigeru Fujimoto

Division of Neurology, Department of Medicine, Jichi Medical University,  
Japan**S-37-1 Current status and issues of the medical resources for stroke in Japanese rural areas**

Takafumi Mashiko

Division of Neurology, Department of Internal Medicine, Jichi Medical University, Japan

**S-37-2 Telestroke in Nagasaki**

Akira Tsujino

Department of Neurology and Strokeology, Nagasaki University Hospital, Japan

**S-37-3 Telestroke in Tochigi Prefecture**

Hidehiro Takekawa

Stroke Center, Dokkyo Medical University, Japan

**S-37-4 Stroke care using telemedicine information sharing**

Kenichiro Sakai

The JIKEI University School of Medicine, Department of Neurology, Japan

**S-37-5 telemedicine guideline (telestroke guideline)**

Yoichiro Hashimoto

Saiseikai Kumamoto Hospital, Stroke Center, Japan