

## Pathogenesis of Parkinson's disease: Latest Challenges of Basic Research

Chairs : Yasushi Shimo

Juntendo University Nerima Hospital

Hideaki Matsui

Brain Research Institute, Niigata University

### S-01-1 Neurodegeneration induced by ectopic mitochondrial DNA

Hideaki Matsui

Department of Neuroscience of Disease, Brain Research Institute, Niigata University, Japan

### S-01-2 Toward an understanding of the prion-like propagation of $\alpha$ -synuclein from membrane trafficking

Takafumi Hasegawa

Division of Neurology, Department of Neuroscience & Sensory Organs, Tohoku University Graduate School of Medicine, Japan

### S-01-3 Cellular neuropathological and structural analyses of alpha-synuclein aggregates

Takashi Nonaka

Tokyo Metropolitan Institute of Medical Science, Dementia Project, Japan

### S-01-4 What does basal ganglia activity tell about the pathophysiology of Parkinson's disease?

Atsushi Nambu

Division of System Neurophysiology, National Institute for Physiological Sciences, Japan / Department of Physiological Sciences, SOKENDAI, Japan

## S-02 Symposium 02

## What "Home Medical Care" can do for patients with neurological diseases

Chairs : Yasunori Ishigaki

Jinseido medical corporation Ohmura hospital

Yukio Miyazaki

Nitta Clinic

### S-02-1 Coexistence of hospital medical care and home medical care: The present situation and the prospects

Yukio Miyazaki

Medical Corporation of Tsukushi-kai, Nitta Clinic, Japan

### S-02-2 Hospital and Clinical Corporation for total care of Parkinson's disease

Taku Hatano

Juntendo University School of Medicine, Japan

**S-02-3** Hospital and clinical corporation for multiple system atrophy patients  
Renpei Sengoku

Department of Neurology, Daisan Hospital, The Jikei Univ. School of Medicine, Japan

**S-02-4** Home Healthcare for PALS: person with Amyotrophic Lateral Sclerosis

Mieko Ogino

International university of health and welfare, Ichikawa hospital, Department of Neurology, Japan / International university of health and welfare, school of Medicine, office medical education, Japan

**S-02-5** Thought on intractable neurological diseases in home medical care  
Yasunori Ishigaki

Medical Corporation of Yuki-kai, Coral clinic, Department of Neurology, Japan

Nominal supported by: Japanese Association for Home Care Medicine

### S-03 Symposium 03

**Web Jp**

May 18 (Wed) 13:20 ~ 15:20

Room 02 (C Block 4F Hall C)

## Cutting into the Frontier of Brain Research with New Technologies

Chairs : Fumitaka Shimizu

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

Kensuke Ikenaka

Department of Neurology, Osaka University Graduate school of Medicine

**S-03-1** Physiological functions of glial cells and their contribution to CNS pathology

Hiroaki Wake

Department of Anatomy and Molecular Cell Biology Nagoya University Graduate School of Medicine, Japan / Division of Multicellular Circuit Dynamics, National Institute for Physiological Sciences, National Institute of Natural Sciences, Japan / Organization of Advanced and Integrated Research, Kobe University, Japan

**S-03-2** Development of human immortalized cell-based blood-brain barrier models for CNS-drug development

Tomomi Furihata

Tokyo University of Pharmacy and Life Sciences, Japan

**S-03-3** Advanced Complexity and Plasticity of Neural Activity in Connected Human Cerebral Organoids

Tatsuya Osaki

Institute of Industrial Science, The University of Tokyo, Japan

**S-03-4** Study of the synucleinopathies using the ultrasound-controlled amyloid amplification system HANABI

Kensuke Ikenaka

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

**S-03-5** Investigations of genetic and environmental factors by bioinformatics  
Yoshiaki Yasumizu

Department of Neurology, Osaka University Graduate School of Medicine, Japan / Department of Experimental Immunology, Immunology Frontier Research Center, Osaka University, Japan

**S-03-6** Cellomics accelerated by cleared brain  
Tomoki Mitani

Department of Neurology, Osaka University Graduate School of Medicine, Japan / Laboratory for Synthetic Biology, RIKEN Center for Biosystems Dynamics Research, Japan / Department of Systems Biology, Osaka University Graduate School of Medicine, Japan

**S-04 Symposium 04**

**Jp**

May 18 (Wed) 13:20 ~ 15:20

Room 06 (B Block 5F Hall B5 (2))

**Paradigm shift in the therapeutic approaches to CNS disorder by Brain Machine Interface technology**

Chairs : Masahito Mihara

Dept. of Neurology, Kawasaki Medical School

Genko Oyama

Juntendo University

**S-04-1** Understanding perceptual and cognitive functions via modeling and decoding of brain activity

Shinji Nishimoto

Graduate School of Frontier Biosciences, Osaka University, Japan / Graduate School of Medicine, Osaka University, Japan / CiNet, NICT, Japan

**S-04-2** Innovative Treatment Strategies Using Brain Machine Interface  
Takufumi Yanagisawa

Institute for advanced co-creation studies, Osaka University, Japan

**S-04-3** Functional neural network dynamics and functional recovery after stroke

Noriaki Hattori

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

**S-04-4** Strategy for brain functional recovery by clinical application of brain decoding

Satoko Koganemaru

Graduate school of Medicine, Kyoto University Human Brain Research Center, Department of Regenerative Systems Neuroscience, Japan

**Three noteworthy keywords: burnout in the era of COVID-19, participation in health and labor administration, and support for balancing treatment and work**

Chairs : Hiroya Kuwahara

Department of Neurology and Neurological Science, Tokyo Medical and Dental University

Yuta Hagiwara

St.Marianna university

**S-05-1 Countermeasures against burnout based on a survey of members of the Japanese Society of Neurology**

**Takayoshi Shimohata**

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

**S-05-2 Physician Burnout in General Hospitals Turned into COVID-19 Priority Hospitals in Japan**

**Yurika Kimura**

Tokyo Metropolitan Ebara Hospital, Japan

**designated comment** **Overview of the measures for supporting treatment and work integration in the workplace by the government**

**Ryotaro Ito**

The measure for supporting treatment and work integration in the workplace, Industrial Health Division, Industrial Safety and Health Department, Labour Standards Bureau, MHLW

**S-05-3 Importance of balancing support of the treatment and work outpatient in neurology**

**Masato Yamatoku**

St.Marianna University School of Medicine department of Neurology, Japan

**S-05-4 Support for balancing work and treatment for intractable neurological diseases and stroke**

**Yoichiro Hashimoto**

Department of Neurology, Kumamoto City Hospitalment, Japan

**S-05-5 Significance of participation in government's planning measures against stroke**

**Akiko Ishigami**

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

**S-05-6 Administrative participation in the promotion of medical research and development at the MHLW**

**Hiroya Kuwahara**

Department of Neurology and Neurological Science, Tokyo Medical and Dental University Hospital, Japan

**Huntington's disease -update**

Chairs : Kazuko Hasegawa

Department of Neurology, National Hospital Organization, Sagamihara National Hospital

Nobuyuki Nukina  
Juntendo University**S-06-1 Current states of Huntington's disease -overview-**

Kazuko Hasegawa

Department of Neurology, NHO Sagamihara National Hospital, Japan

**S-06-2 Update of the HTT gene**

Hiroyuki Ishiura

Department of Neurology, The University of Tokyo, Japan

**S-06-3 Huntingtin update**

Yoshitaka Nagai

Department of Neurology, Kindai University Faculty of Medicine, Japan

**S-06-4 The role of basal ganglia and cerebral cortex in driving symptoms in Huntington disease**

Masashi Hamada

Department of Neurology, the University of Tokyo Hospital, Japan

**S-06-5 Current Situation and Future Prospect of Clinical Trials for Huntington's disease**

Hitoshi Okazawa

Neuropathology, Tokyo Medical and Dental University, Japan / Center for Brain Integration Research, Tokyo Medical and Dental University, Japan

**Significance of clinicians' association: Advice from other academic areas**

Chairs : Kazutoshi Nishiyama

Department of Neurology, Kitasato University School of Medicine

Kiyoshi Niwa  
Tokyo Headache Clinic**S-07-1 Report from the Preparatory Committee for the Japanese Clinical Neurologist Society**

Kazutoshi Nishiyama

Department of Neurology, Kitasato University School of Medicine, Japan

**S-07-2** The process of establishment and activities of Japan Otorhinolaryngologists Association

Hideyuki Iwasa  
IWASA ENT CLINIC, Japan

**S-07-3** activities of Japan Clinilal Orthopedic association

Keiji Fujino  
Fujino Orthopedic Clinic, Japan

**S-07-4** Activities of Associations and Leagues of Medical Specialty in Japan: Should we have "Japanese Association of Clinical Neurologist"?

Kotaro Asanuma  
Yanagibaba Takeda Clinic, Japan

**S-08 Symposium 08**

**Jp**

May 18 (Wed) 13:20 ~ 15:20

Room 11 (Glass Building 7F G701)

**Neuromuscular Junction - Updates from Neuroscience to Clinical Applications -**

Chairs : Kazuhiro Shigemoto  
Tokyo Metropolitan Institute of Gerontology  
Kinji Ohno  
Neurogenetics, Nagoya University Graduate School of Medicine

**S-08-1** Congenital myasthenic syndromes and novel secreted molecules to induce the neuromuscular junction

Kinji Ohno  
Neurogenetics, Nagoya University Graduate School of Medicine, Japan

**S-08-2** Targeting neuromuscular junctions as a novel therapeutic approach for neuromuscular disorders

Yuji Yamanashi  
Division of Genetics, The Institute of Medical Science, The University of Tokyo, Japan

**S-08-3** Pathogenic mechanism and a biomarker of MuSK antibody-positive myasthenia gravis

Kazuhiro Shigemoto  
Geriatric Medicine, Tokyo Metropolitan Institute of Gerontology, Japan

**S-08-4** Innovative therapy for myesthenia gravis with immunoglobulin Fc-antigenic epitope fusion protein

Satoshi Kuwabara  
Department of Neurology, Chiba University Hospital, Japan

**S-08-5** The new clinical guidelines for myasthenia gravis

Hiroyuki Murai  
International University of Health and Welfare, Japan

**Clinical and pathological heterogeneity in multiple system atrophy**

Chairs : Masaki Takao

National Center of Neurology and Psychiatry (NCNP) National Center Hospital

Yasuo Miki

Department of Neuropathology, Hirosaki University Graduate school of  
Medicine**S-09-1** Pathological features of individuals with typical MSA, preclinical MSA, and MSA of long duration

Taku Homma

Saitama Medical University International Medical Center, Japan

**S-09-2** Clinicopathological features of MSA with concomitant pathologies

Shunsuke Koga

Department of Neuroscience, Mayo Clinic, USA

**S-09-3** Pathological substrate of memory impairment in multiple system atrophy

Yasuo Miki

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

**S-09-4** Frontotemporal lobar degeneration  $\alpha$ -synuclein - update

Gabor G. Kovacs

University of Toronto, Canada / University Health Network, Toronto, Canada

Nominal supported by: The Japanese Society of Neuropathology

**Personalized medicine for ultra-rare disease by nucleic acid drug**

Chairs : Annemieke Aartsma-rus

Leiden University Medical Center

Takanori Yokota

Department of Neurology and Neurological Science, Tokyo Medical and Dental  
University**S-10-1** Early forays into individualized genomic medicine with antisense oligonucleotides

Tojo Nakayama

Harvard Medical School Boston Children's Hospital, Japan

**S-10-2** Development of Antisense Drugs for Rare Neurological Diseases

Frank Bennett

Ionis Pharmaceuticals, USA

**S-10-3** Dutch Center for RNA Therapeutics:a center to develop AON therapies for patients with rare mutations  
Annemieke Aartsma-rus  
Leiden University Medical Center, the Netherlands/Dutch Center for RNA Therapeutics, the Netherlands

**S-10-4** 'N of I' therapy, IRUD and IRUD Beyond  
Hidehiro Mizusawa  
National Center of Neurology and Psychiatry, Japan/Tokyo Medical and Dental University, Japan

Nominal supported by: Oligonucleotide Therapeutics Society (OTS)

## S-11 Symposium 11

Jp

May 19 (Thu) 8:00 ~ 9:30

Room 06 (B Block 5F Hall B5 (2))

### Current topics in the diagnosis and pathogenesis of spinal cord disorders

Chairs : Yoshihisa Yamano  
Division of Neurology, Department of Internal Medicine, St. Marianna University School of Medicine  
Tatsuro Misu  
Department of Neurology, Tohoku University Hospital

**S-11-1** Differential diagnosis of myelitis  
Tetsuo Ando  
Kameda Medical Center, Japan

**S-11-2** Pathological Mechanisms of HTLV-1 Associated Myelopathy/Tropical Spastic Paraparesis(HAM/TSP)  
Natsumi Araya  
Institute of Medical Science, St. Marianna University School of Medicine, Japan

**S-11-3** Pathogenesis and diagnosis of anti-myelin oligodendrocyte glycoprotein antibody associated disorders  
Tatsuro Misu  
Department of Neurology, Tohoku University Hospital, Japan

**S-11-4** Pathophysiology and diagnosis of GFAP autoimmunity  
Akio Kimura  
Department of Neurology, Gifu university graduate school of medicine, Japan

**Treatment strategy for recurrent ischemic stroke**

Chairs : Shigeru Fujimoto

Division of Neurology, Department of Medicine, Jichi Medical University

Yasuyuki Iguchi

Department of Neurology, the Jikei University School of Medicine

**S-12-1 Lesson from current status of stroke patients taking oral anticoagulants**

Satoshi Suda

Department of Neurology, Nippon Medical School, Japan

**S-12-2 Anticoagulant therapy for patients with atrial fibrillation and renal dysfunction**

Shigeru Fujimoto

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

**S-12-3 Recurrent ischemic stroke under antiplatelet therapy in patients with cerebrovascular stenosis**

Hiroshi Yamagami

Department of Stroke Neurology, NHO Osaka National Hospital, Japan

**S-12-4 Recurrent ischemic stroke in patients with patent foramen ovale**

Koichi Oki

Department of Neurology, Tokyo Saiseikai Central Hospital, Japan

**S-12-5 Cancer associated stroke and secondary prevention**

Ryota Tanaka

Stroke Center and Division of Neurology, Department of Medicine, Jichi Medical University, Japan

**Transcranial ultrasound stimulation (TUS) in humans**

Chairs : Yoshikazu Ugawa

Department of Human Neurophysiology, Fukushima Medical University

Seiki Konishi

Juntendo University School of Medicine

**S-13-1 Definition of ultrasound, why it is useful in medicine**

Hiroshi Kanai

Dept of Electronic Engineering, Tohoku University, Japan

**S-13-2 Basic mechanisms of transcranial ultrasound stimulation(TUS)**

Yasuo Terao

Department of Medical Physiology, Kyorin University, Japan

S-13-3 Practice of low intensity ultrasound stimulation to human cerebral cortex and basal ganglia

Seiki Konishi

Department of Neurophysiology, Juntendo University School of Medicine, Japan

S-14 Symposium 14

Jp

May 19 (Thu) 8:00 ~ 9:30

Room 09 (D Block 1F Hall D1)

The current topics on pathophysiology and complications of narcolepsy

Chairs : Yuichi Inoue

Department of Somnology, Tokyo Medical University

Keisuke Suzuki

Dokkyo Medical University

S-14-1 REM sleep behavior disorder in narcolepsy

Hiroaki Fujita

Dokkyo Medical University, Japan

S-14-2 The neural circuit regulating cataplexy

Shuntaro Uchida

Laboratory for Comparative Connectomics, RIKEN Center for Biosystems Dynamics Research, Japan

S-14-3 Prevalence of metabolic syndrome related disorders in narcolepsy spectrum disorders

Yuichi Inoue

Tokyo Medical University/Yoyogi Sleep Disorder Center, Japan

S-14-4 Pathophysiology and treatment strategies for idiopathic / symptomatic narcolepsy / hypersomnia

Takashi Kanbayashi

International Institute for Integrative Sleep Medicine (IIIS), Tsukuba University, Japan / Ibaraki Prefectural Medical Center of Psychiatry, Japan

**S-15 Symposium 15****Jp**

May 19 (Thu) 8:00 ~ 9:30

Room 11 (Glass Building 7F G701)

**Competence of general medical practice of a neurologist: requirement for neurology as a specialty in the Japanese medical specialty system**

Chairs : Ryosuke Takahashi

Department of Neurology, Kyoto University Graduate School of Medicine

Tatsushi Toda

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

**S-15-1****The Japanese Medical Specialty Board's thoughts on how a General Medicine Physician should be****Yutaka Hatori**

JAPAN MEDICAL ASSOCIATION EXECUTIVE BOARD MEMBER, Japan / Japanese Board of General Medicine (JBGGM) chair, Japan

**S-15-2****Measures for general practice -from a stand point of MHLW-****Ryosuke Fukuda**

Medical Profession Division, Health Policy Bureau, Ministry of Health, Labour, and Welfare, Japan

**S-15-3****Neurology as an independent specialty and the general medicine capability of neurologists****Masahiro Sonoo**

Department of Neurology, Teikyo University School of Medicine, Japan

**S-15-4****Neurologist as a generalist in the community medicine****Yasumasa Ohyagi**

Department of Neurology and Geriatric Medicine, Ehime University, Japan

**S-15-5****Core competencies of General Physician: a neurologist's view****Masanaga Yamawaki**

Department of Medical Education, Graduate School of Medicine &amp; Dentistry, Tokyo Medical &amp; Dental University, Japan

**S-16 Symposium 16****Web En**

May 19 (Thu) 15:30 ~ 17:30

Room 03 (B Block 7F Hall B7 (1))

**Frontiers of animal models for neurodegenerative diseases**

Chairs : Koji Yamanaka

Research Institute of Environmental Medicine, Nagoya University

Atsushi Iwata

Tokyo Metropolitan Geriatric Hospital

**S-16-1****Development of next-generation tauopathy model mouse****Naoto Watamura**

RIKEN Center for Brain Science, Japan

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Symposium

S-16-2 Mutant  $\alpha$ -Synuclein transgenic marmoset as a model for Parkinson's disease

Reona Kobayashi

RIKEN Center for Brain Science, Japan / Department of Physiology, Keio University School of Medicine, Japan

S-16-3 Generation of animal models of Alzheimer's disease - from mice to non-human primates

Hiroki Sasaguri

Laboratory for Proteolytic Neuroscience, RIKEN Center for Brain Science, Japan / Department of Neurology and Neurological Science, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University, Japan

S-16-4 Animal model of Parkinson's disease: For unveiling the pathogenesis and the development of DMT

Hodaka Yamakado

Department of Neurology Kyoto University Hospital, Japan

S-16-5 Revisiting TDP-43-based mouse models for ALS and FTD

Koji Yamanaka

Research Institute of Environmental Medicine, Nagoya University, Japan

## S-17 Symposium 17

Web En

May 19 (Thu) 15:30 ~ 17:30

Room 05 (B Block 5F Hall B5 (1))

### Integrated understanding of physiology and imaging based on the genetic dystonia

Chairs : Nagako Murase

National Hospital Organization Nara Medical Center

Yuishin Izumi

Department of Neurology, Institute of Biomedical Sciences, Tokushima University Graduate School

S-17-1 Biochemical, Electrophysiological and Behavioral Studies using Genetic Mouse Models of DYT1 Dystonia

Fumiaki Yokoi

Norman Fixel Institute for Neurological Diseases, USA / McKnight Brain Institute, USA / Department of Neurology, College of Medicine, University of Florida, USA

S-17-2 Disruption of network for visual perception of natural motion in DYT1 dystonia

Koji Fujita

Department of Neurology, Tokushima University, Japan

S-17-3 GCH1 variants in dopa-responsive dystonia and Parkinson's disease

Hiroyo Yoshino

Research Institute for Diseases of Old Age, Graduate School of Medicine, Juntendo University, Japan

S-17-4 Pre-movement gating of somatosensory evoked potentials in two types of DYT5, Segawa disease

Kazue Kimura

Segawa Memorial Neurological Clinic for Children, Japan

S-17-5 PRRT2 mutations in Japanese patients with benign infantile epilepsy and paroxysmal kinesigenic dyskinesia

Yoshiteru Azuma

Department of Pediatrics, Aichi Medical University, Japan

### S-18 Symposium 18

Jp

May 19 (Thu) 15:30 ~ 17:30

Room 06 (B Block 5F Hall B5 (2))

#### Medical Exam and Rehab for obstinate neurological disease with ICT

Chairs : Tadashi Ichikawa

Saitama Prefectural Rehabilitation Center

Takayo Chuma

Department of Rehabilitation Medicine, Shiga General Hospital

S-18-1 New technologies in neurological intractable diseases

Genko Oyama

Department of Neurology, Juntendo University School of Medicine, Japan

S-18-2 Possibility and Limitation of Tele-rehabilitation -PD Telerehabilitation Research Group-

Tadashi Ichikawa

Department of Neurology, Saitama Prefectural Rehabilitation Center, Japan

S-18-3 Telerehabilitation intervention for people with Parkinson's disease

Mitsuru Doi

NHO Tottori Medical Center, Japan

S-18-4 Telerehabilitation for dysphagia in patients with neuromuscular disease

Sonoko Nozaki

Wakakusa Tatsuma Rehabilitation Hospital, Japan

### S-19 Symposium 19

Web En

May 20 (Fri) 8:00 ~ 9:30

Room 03 (B Block 7F Hall B7 (1))

#### Autophagy dysfunction in Alzheimer's disease and dementia

Chairs : Tatsuro Mutoh

Fujita Health University Hospital

Tadanori Hamano

Department of Neurology, University of Fukui

S-19-1 Autophagy dysfunction and accumulation of amyloid beta protein and tau protein

Tadanori Hamano

Department of Neurology, University of Fukui, Japan

S-19-2

Tau propagation and autophagy dysfunction - relationship to strain hypothesis and treatment

Yumiko Motoi

Department of Neurology, Graduate School of Medicine, Juntendo University, Japan / Department of Diagnosis, Prevention, and Treatment of Dementia, Graduate School of Medicine, Juntendo University, Japan / Juntendo University, Juntendo hospital Medical Center for Dementia, Japan

S-19-3

Dysfunction of the autophagy-endolysosomal system in ALS and FTD

Shinji Hadano

Department of Molecular Life Sciences, Tokai University School of Medicine, Japan

S-19-4

Autophagy dysfunction in skeletal myopathies: Inclusion body myositis and Danon disease

Kazuma Sugie

Department of Neurology, Nara Medical University, Japan

**S-20 Symposium 20**

**Web En**

May 20 (Fri) 8:00 ~ 9:30

Room 05 (B Block 5F Hall B5 (1))

**Innovation of non-invasive brain stimulation**

Chairs : Yasuo Terao

Department of Medical Physiology, Kyorin University

Masashi Hamada

the University of Tokyo Hospital

S-20-1

Non-invasive temporal interference electrical deep brain stimulation

Nir Grossman

Imperial College London, UK / UK Dementia Research Institute, UK / Massachusetts Institute of Technology, UK

S-20-2

Transcranial ultrasound stimulation(TUS) and its clinical application

Yoshikazu Ugawa

Department of Human Neurophysiology, Japan

S-20-3

Repetitive transcranial magnetic stimulation(rTMS) for depression in Parkinson's disease

Shinsuke Kito

National Center of Neurology and Psychiatry, Japan / Jikei University School of Medicine, Japan

S-20-4

Neo-rehabilitation for Stroke: Gait Reconstruction using Closed-Loop Stimulation

Tatsuya Mima

The Graduate School of Core Ethics and Frontier Sciences, Ritsumeikan University, Japan

Nominal supported by: Japanese Society of Clinical Neurophysiology

## Transition from child to adult health care services for people with neurological diseases: cooperation among pediatric and adult physicians

Chairs : Yoko Mochizuki

Tokyo Metropolitan Kita Medical and Rehabilitation Center for the Disabled

Katsuhisa Ogata

National Hospital Organization Higashisaitama National Hospital

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### S-21-1 The transition support medical team in the neurological specialist hospital

Hideaki Mashimo

Department of neuropediatrics, Tokyo Metropolitan Neurology Hospital, Japan

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### S-21-2 Transition to adult care in the pediatric neurology clinic of Hospital of Tsukuba university

Tatsuyuki Ohto

Department of Child Health, Faculty of Medicine, University of Tsukuba, Japan

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### S-21-3 Current situation of transitional care in the department of neurology of the local core hospital

Yoshio Sakiyama

Department of Neurology, Jichi Medical University, Saitama Medical Center, Japan

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### S-21-4 Current problems in the adult section in childhood onset neuromuscular disease patients medical care

Toshio Saito

Division of Child Neurology, Department of Neurology, National Hospital Organization Osaka Toneyama Medical Center, Japan

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### S-21-5 Perspective on pediatric-adult health care transition for patients with neurological diseases

Katsuhisa Ogata

Department of Neurology / Institute of Clinical Research, National Hospital Organization Higashisaitama National Hospital, Japan / Special Committee on Measures for Transition from Pediatric to Adult Health Care, the Japanese Society of Neurology, Japan

Nominal supported by: The Japanese Society of Child Neurology

**Personalized medicine of patients with multiple sclerosis**

Chairs : Masahiro Mori

Department of Neurology, Chiba University

Chiyoko Nohara

Tokyo Metropolitan Health and Medical Treatment Corporation Ebara Hospital

**S-22-1 Update of immunopathological mechanism of relapsing and progressive MS**

Izumi Kawachi

Department of Neurology, Brain Research Institute, Niigata University, Japan / Medical Education Center, Niigata University School of Medicine, Japan

**S-22-2 Personalized medicine in multiple sclerosis: Poor prognostic factors and disease biomarkers**

Jin Nakahara

Department of Neurology, Keio University School of Medicine, Japan

**S-22-3 The relapsing prevention of MS treatments in consideration of life event and social environment**

Yuko Shimizu

Department of Neurology, Tokyo Women's Medical University, Japan

**S-22-4 Personalized treatment strategy for multiple sclerosis**

Yusei Miyazaki

Department of Neurology, National Hospital Organization Hokkaido Medical Center, Japan

**Artificial intelligence in the diagnosis and treatment of neuromuscular diseases**

Chairs : Ichizo Nishino

Department of Neuromuscular Research, National Institute of Neuroscience, NCNP

Yoshitsugu Aoki

Department of Molecular Therapy, National Institute of Neuroscience, National Center of Neurology and Psychiatry

**S-23-1 AI-based algorithm for muscle pathology diagnosis**

Ichizo Nishino

Department of Neuromuscular Research, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Japan

**S-23-2 eSkip-Finder: a machine learning-based web application and database for exon skipping therapy**

Yoshitsugu Aoki

Department of Molecular Therapy, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Japan

**S-23-3** Deep learning-based automatic diagnosis of neurological diseases using EEG and MEG

Ryohei Fukuma

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

**S-23-4** Structure-based development of genome-editing tools towards accurate and safe gene therapy

Osamu Nureki

Graduate School of Science, The University of Tokyo, Japan

Nominal supported by: Japan Muscle Society

**S-24 Symposium 24**

**Web En**

May 20 (Fri) 8:00 ~ 9:30

Room 10 (Glass Building 4F G409)

**Frontiers of Gene and Cell Therapy**

Chairs : Shin-ichi Muramatsu

Jichi Medical University

Yohei Okada

Aichi Medical University, Department of Neurology

**S-24-1** Safety and clinical outcomes from the PD 1101 trial of AADC gene therapy for Parkinson's disease

Chadwick Christine

University of California San Francisco, USA

**S-24-2** Recent advances in AAV gene therapy

Shin-ichi Muramatsu

Division of Neurological Gene Therapy, Center for Open Innovation, Jichi Medical University, Japan / Center for Gene and Cell Therapy, The Institute of Medical Science, The University of Tokyo, Japan

**S-24-3** Disease modeling and drug development for Parkinson's disease using iPS cells

Wado Akamatsu

Center for Genomic and Regenerative Medicine, Juntendo University, Japan

**S-24-4** iPS cell-based therapy for Parkinson's disease

Jun Takahashi

Kyoto University, Center for iPS Cell Research and Application, Japan

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

May 20 (Fri) 8:00 ~ 9:30

Room 11 (Glass Building 7F G701)

**Escape from lap delay**

Chairs : Yukiko Hayashi

Tokyo Medical University

Sonoko Misawa

Department of Neurology, Chiba University Graduate School of Medicine

**S-25-1** Escape from lap delay: Based n the current situation in Japan

Yukiko Hayashi

Department of Pathophysiology, Tokyo Medical university, Japan

**S-25-2** The Vulnerability and FutureChallenges of SocialSecurity in Japan Highlighted by the Corona Disaster

Natsuko Iino

University of Yamanashi, Japan

**S-25-3** Dx and AI in medical fields in Japan

Takashi Hanakawa

Kyoto University Graduate School of Medicine, Japan

**S-25-4** The Path to Closing the Gender Gap in Academia

Akiko Murata

Faculty of Letters, Arts and Sciences WASEDA University, Japan

**S-26 Symposium 26****Jp**

May 20 (Fri) 13:45 ~ 15:45

Room 06 (B Block 5F Hall B5 (2))

**Considering relationship between neurology & psychiatry in 21st century**

Chairs : Kenichi Kashihara

Okayama Neurology Clinic

Hidehiro Shibayama

Kameda Medical Center

**S-26-1** Interrelation between neurology and psychiatry viewed from history of the Occident

Hidehiro Shibayama

Kameda Medical Center, Japan

**S-26-2** Neurological knowledge helpful for psychiatrist and psychiatric knowledge helpful for neurologist

Kenichi Kashihara

Okayama Neurology Clinic, Japan

**S-26-3** Psychiatric symptoms in movement disorders and motor symptoms in psychiatric disorders

Yoshiyuki Nishio

Department of Psychiatry and Neurology, Tokyo Metropolitan Matsuzawa Hospital, Japan

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**S-26-4** Rethinking relationship between psychiatry and neurology from motor and cognitive impairments

Takahashi Hidehiko

Tokyo Medical and Dental University, Japan

Nominal supported by: Japanese Society of Psychiatry

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**S-27 Symposium 27**

**Jp**

May 20 (Fri) 13:45 ~ 15:45

Room 07 (D Block 7F Hall D7)

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**Next-generation standard diagnostic imaging in the treatment of dementia with DMT**

Chairs : Hirohisa Watanabe

Fujita Health University, School of Medicine

Hitoshi Shimada

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

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**S-27-1** Disease-modifying therapies for Alzheimer's disease: clinical development and implementation

Takeshi Iwatsubo

Department of Neuropathology, The University of Tokyo, Japan

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**S-27-2** Clinical and neuropathologic aspects of mild cognitive impairments

Masaki Takao

National Center of Neurology and Psychiatry (NCNP), National Center Hospital, Japan

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**S-27-3** Pioneering a new frontier for AI-enhanced dementia diagnosis imaging in the DMT era

Yuki Aoyama

Splink, Inc., Japan

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**S-27-4** Prospects for amyloid PET in clinical practice in the DTM era

Kenji Ishii

Ream for Neuroimaging Research, Tokyo Metropolitan Institute of Gerontology, Japan

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**S-27-5** Important radiological abnormalities after disease modifying therapy and their countermeasures

Hidekazu Tomimoto

Department of Neurology, Mie University, Japan

**The future of neuromuscular disease registries-The advent of disease-modifying therapy and patient involvement**

Chairs : Eri Hirasawa

Department of Neurology Graduate School of Medicine, Juntendo University

Masanori Takahashi

Osaka University Graduate School of Medicine

**S-28-1 Clinical innovation network and registry of muscular dystrophy (REMUDY)**

Harumasa Nakamura

Department of Clinical Research Support Clinical Research &amp; Education Promotion Division, National Center Hospital National Center of Neurology and Psychiatry, Japan

**S-28-2 A nationwide patient registry for GNE myopathy in Japan: 10 years of experience**adapted from  
free papers

Madoka Mori-Yoshimura

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

**S-28-3 A longitudinal cohort study of adults with spinal muscular atrophy**

Kentarō Sahashi

Department of Neurology, Nagoya University Hospital, Japan

**S-28-4 Active patient involvement in rare disease research**

Kazuto Kato

Department of Biomedical Ethics and Public Policy, Graduate School of Medicine, Osaka University, Japan

**S-28-5 The TREAT-NMD Global Registry Network**

Volker Straub

John Walton Muscular Dystrophy Research Centre, Newcastle University, UK

**Neuropsychiatric complications associated with COVID-19 infection and vaccination**

Chairs : Nobuo Sanjo

Tokyo Medical and Dental University Graduate School of Medical and Dental Science

Katsuya Satoh

Department of Health Sciences, Unit of Medical and Dental Sciences, Nagasaki University Graduate School of Biomedical Sciences

**S-29-1 SARS-CoV-2 viral properties and COVID-19 associated neuroinfectious disease**

Nobuo Sanjo

Tokyo Medical and Dental University Graduate School of Medical and Dental Science, Japan

**S-29-2** COVID19 infection and Neuroimmunological Diseases  
Okuno Tatsusada  
Department of Neurology, Osaka University Graduate School of Medicine, Japan

**S-29-3** Stroke in COVID-19  
Satoru Ishibashi  
Ishibashi Neurology Clinic, Japan / Dpt of Neurology and Neurological Science, Tokyo Medical and Dental University, Japan

**S-29-4** Neurological dysfunction in post COVID-19 condition/Long COVID  
Hideto Nakajima  
Division of Neurology, Department of Medicine, Nihon University, Japan

**S-29-5** Types and characteristics of COVID-19 vaccines  
Hiroyuki Moriuchi  
Department of Pediatrics, Nagasaki University Graduate School of Biomedical Sciences, Japan

**S-29-6** Neurological adverse events following COVID-19 vaccination  
Yohsuke Yagi  
Department of Neurology and Neurological Science, Tokyo Medical and Dental University, Japan

### S-30 Symposium 30

Jp

May 21 (Sat) 8:00 ~ 10:00

Room 07 (D Block 7F Hall D7)

### Recent Status of Investigator-initiated Clinical Trial in Neurology

Chairs : Hideki Mochizuki  
Department of Neurology, Osaka University Graduate School of Medicine  
Osamu Onodera  
Brain Research Institute, Niigata University.

**S-30-1** Physician-initiated clinical trials and Patient-proposed healthcare service for refractory CIDP  
Masahiro Iijima  
Division of Advanced Medicine, Nagoya University Hospital, Japan

**S-30-2** Toward clinical trials of Parkinson's disease  
Yasuyoshi Kimura  
Department of Neurology, Osaka University Graduate School of Medicine, Japan

**S-30-3** Gene and genetic therapy for muscular disorders  
Go Fujino  
Department of Neurology, The University of Tokyo Hospital, Japan

**S-30-4** Phase II study of a protein aggregation inhibitor for polyglutamine disease  
Tomohiko Ishihara  
Niigata University BRI, Japan

**S-31 Symposium 31****Jp**

May 21 (Sat) 8:00 ~ 10:00

Room 09 (D Block 1F Hall D1)

**Forefront of treatment for metabolic and hereditary peripheral neuropathy**

Chairs : Haruki Koike

Nagoya University Graduate School of Medicine

Akihiro Hashiguchi

Kagoshima University Hospital, Neurology, Neurological Disease Center

**S-31-1 Frontiers in the treatment of spinal muscular atrophy**

Hitaru Kishida

Department of Neurology, Yokohama City University Medical Center, Japan

**S-31-2 Current treatment strategy of diabetic peripheral neuropathies**

Takahisa Deguchi

Clinical Training Center, Kagoshima University Hospital, Japan

**S-31-3 Recent advances in treatments for hereditary transthyretin amyloidosis**

Mitsuharu Ueda

Department of Neurology, Kumamoto University, Japan

**S-31-4 Frontiers of HAL-based Cybernics Therapy for Peripheral (and Central) Nervous system disorders**

Takashi Nakajima

Department of Neurology, National Hospital Organization Niigata National Hospitalpa, Japan

**S-32 Symposium 32****Web Jp**

May 21 (Sat) 8:00 ~ 10:00

Room 10 (Glass Building 4F G409)

**From long read sequencing, artificial intelligence, and machine learning to neurogenetic diseases**

Chairs : Hiroshi Takashima

Kagoshima University, Neurology

Hiroyuki Ishiura

Department of Neurology, The University of Tokyo

**S-32-1 Mosaicism of repeat expansions hidden in personal genomes**

Shinichi Morishita

Graduate School of Frontier Sciences, Japan

**S-32-2 Long read sequencing dissecting disease-related genome**

Naomichi Matsumoto

Department of Human Genetics, Yokohama City University Graduate School of Medicine, Japan

**S-32-3 Machine learning and artificial intelligence in genetic research**

Tatsuhiko Naito

Department of Statistical Genetics, Osaka University, Japan / Department of Neurology, The University of Tokyo, Japan / Laboratory for Systems Genetics, RIKEN, Japan

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**S-32-4** Update of Hereditary Spastic Paraplegia in Japan

Kishin Koh

Department of Neurology, University of Yamanashi, Japan

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**S-32-5** Update on the genetics of Parkinson's disease

Manabu Funayama

Research Institute of Disease of Old Age, Graduate School of Medicine, Juntendo University, Japan / Department of Neurology, Juntendo University School of Medicine, Japan

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**S-33 Symposium 33**

**Jp**

May 21 (Sat) 8 : 00 ~ 10 : 00

Room 11 (Glass Building 7F G701)

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**Intractable disease medical care provision system and community symbiosis: in anticipation of review of Act on Medical Care for Patients with Intractable Diseases**

Chairs : Takafumi Miyachi

NHO Yanai Medical Center

Tatsuya Abe

National Hospital Organization Hakone Hospital

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**S-33-1** Current status and future perspectives of rare and intractable disease control in Japan

Yukari Takahashi

Intractable/Rare Disease Control Division, Health Service Bureau, Ministry of Health, Labour and Welfare, Japan

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**S-33-2** The role of a hospital specialized for intractable neurological disease on medical care networking

Kiyonobu Komai

National Hospital Organization Iou National Hospital, Hokuriku Brain and Neuromuscular Disease Center, Japan

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**S-33-3** Nursing for Intractable neurological diseases Supporting for living based on the community

Yuki Nakayama

Tokyo Metropolitan Institute of Medical Science Research Centre for Social Science & Medicine Unit for Intractable Disease Nursing Care, Japan

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**S-33-4** Human resource development for multidisiplinary professionals using the Internet

Tomihiro Imai

National Hospital Organization Hakone Hospital, Japan

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