JNS Neurosurgery-Neurology Symposium

Sep 1 (Tue) 16:00 ~ 17:30 Room 03 "Main Hall" (Okayama Convention Center 3F Convention Hall)

Neurosurgery & Neurology Joint Symposium

Chairs: Tatsushi Toda
Department of Neurology, Graduate School of Medicine, The University of Tokyo
Teiji Tominaga
Department of Neurosurgery, Tohoku University Graduate School of Medicine

JNS-1 Advance of neuroprotective therapy
Koji Abe
Okayama University, Department of neurology

JNS-2 The progress of stereotactic neurosurgery
Isao Date
Department of Neurological Surgery, Okayama University Graduate School

JNS-3 Therapies in Parkinson's Disease: Recent Advances and Challenges
Ryosuke Takahashi
Department of Neurology, Kyoto University Graduate School of Medicine

JNS-4 Recent Advancement of Stroke Medicine
Hiroyuki Kinouchi
President, the 80th Annual Meeting of the Japan Neurosurgical Society
Stroke and Cardiovascular Control Act and Japan Neurological Society

Chairs: Takao Urabe
Department of Neurology, Juntendo University Urayasu Hospital
Chiaki Yokota
National Cerebral and Cardiovascular Center Stroke Rehabilitation

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<th>S-20-1</th>
<th>Introduction: Details of the approval and future development of the Act</th>
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<td>Kazuo Minematsu</td>
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Headquarters of the Iseikai Medical Corporation / Japan Stroke Association

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<th>S-20-2</th>
<th>Future Direction of Measures based on the Cerebrovascular and Cardiovascular Disease Control Act</th>
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<td>Akiko Ishigami</td>
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Department of Cerebrovascular Medicine, National Cerebral and Cardiovascular Center

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<tr>
<th>S-20-3</th>
<th>What are necessary things and supports for stroke patients and their families?</th>
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<td>Hidehiro Takekawa</td>
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Japan Stroke Association / Dokkyo Medical University

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<th>Roles and challenges of the Japanese Society of Neurology</th>
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<td>Yoichiro Hashimoto</td>
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Department of Neurology, Kumamoto City Hospital
S-21 Symposium 21
Sep 1 (Tue) 9:00 ~ 10:30  Room 05 (Okayama Convention Center 3F Conference Room 302)

Basic Neuropathology for Neurologists
Chairs: Shigeo Murayama
Departments of Neurology and Neuropathology (the Brain Bank for Aging Research)
Masaki Takao
Saitama International Medical Center, Saitama Medical University

S-21-1 Neuromuscular pathology
Shigeo Murayama
Department of Neurology and Neuropathology (the Brain Bank for Aging Research), Tokyo Metropolitan Geriatric Hospital and Institute of Gerontology / United Graduate School of Child Development, Osaka University

S-21-2 Basic knowledge of neuropathology that neurologists want to know, brain tumor
Hirotake Nishimura
Kawasaki medical school dept.pathology

S-21-3 Pathology of Neurodegenerative diseases
Masashi Takanashi
Department of Neurology, Juntendo University Faculty of Medicine

S-21-4 Neuropathology of Cerebrovascular Disorders
Masaki Takao
Department of Neurology, Saitama International Medical Center, Saitama Medical University

Nominal support: The Japanese Society of Neuropathology

S-22 Symposium 22
Sep 1 (Tue) 9:00 ~ 10:30  Room 06 (Okayama Convention Center 2F Reception Hall)

Latest Advances in the Treatment of Ischemic Stroke
Chairs: Kazuo Kitagawa
Department of Neurology, Tokyo Women's Medical University
Toru Yamashita
Department of Neurology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences

S-22-1 Therapeutic strategies modulating post-stroke inflammation
Takashi Shichita
Stroke Renaissance Project, Tokyo Metropolitan Institute of Medical Science, Japan

S-22-2 Therapeutic strategies promoting collateral circulation
Satoru Ishibashi
Department of Neurology, Tokyo Medical and Dental University Hospital, Japan
Muse Cell Therapy for Cerebral Ischemia
Kuniyasu Niizuma
Department of Neurosurgical Engineering and Translational Neuroscience, Graduate School of Biomedical Engineering, Tohoku University, Japan / Department of Neurosurgical Engineering and Translational Neuroscience, Tohoku University Graduate School of Medicine, Japan / Department of Neurosurgery, Tohoku University Graduate School of Medicine, Japan

iN cell therapy for cerebral ischemia
Toru Yamashita
Department of Neurology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Japan

Symposium 23
Sep 1 (Tue) 9:00 ~ 10:30
Room 07 (Okayama Convention Center 2F Exhibition Hall)

Novel neurophysiological techniques for evaluating and diagnosing neurological patients
Chairs: Yasuo Terao
Department of Medical Physiology
Takashi Nagamine
Department of Systems Neuroscience, School of Medicine, Sapporo Medical University

Quantitative evaluation of cerebellar ataxia and its clinical application
Shinji Kakei
Tokyo Metropolitan Institute of Medical Science

Analysis of gait disorders in neurodegenerative diseases
Hiroshi Mitoma
Department of Medical Education, Tokyo Medical University

Videofluorographic study of swallowing for neurological diseases
Makito Hirano
Kindai University, Faculty of Medicine, Department of Neurology

Nerve conduction study of the spinal cord and the peripheral nerve by neuromagnetic measurement
Shigenori Kawabata
Department of Advanced Technology in medicine, Graduate School of Tokyo Medical and Dental University
### S-24 Symposium 24

**Proposed symposium**

Sep 1 (Tue) 9:00 ~ 10:30  Room 09 (Okayama Prefectural Medical Association Office 4F Conference Room 402)

**When should we stop the treatment?**

Chairs: Hikoaki Fukaura  
Saitama Medical University  
Chieko Suzuki  
Department of Neurology, Hirosaki University Graduate School of Medicine

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<td>S-24-1</td>
<td>When to discontinue disease modifying drug in multiple sclerosis?</td>
<td>Yuko Shimizu</td>
<td>Department of Neurology, Tokyo Women's Medical University</td>
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<td>S-24-2</td>
<td>The late stage of Parkinson's disease</td>
<td>Tetsuya Maeda</td>
<td>Division of Neurology and Gerontology, Department of Internal Medicine, School of Medicine, Iwate Medical University</td>
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<td>S-24-3</td>
<td>How to treat the end stage of ALS</td>
<td>Mieko Ogino</td>
<td>International University of Health and Welfare, School of Medicine, Office of Medical Education</td>
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<td>S-24-4</td>
<td>How long are you going to do it? Continuation or withdrawal of secondary prevention of stroke</td>
<td>Yasuo Terayama</td>
<td>Division of Neurology, Shonan Keiku Hospital</td>
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### S-25 Symposium 25

**Proposed symposium**

Sep 1 (Tue) 9:00 ~ 10:30  Room 10 (Okayama Prefectural Medical Association Office 2F Miki Memorial Hall)

**The Implication of Autophagy in Alzheimer’s disease and Dementia**

Chairs: Yumiko Motoi  
Juntendo University School of Medicine, Dept of Diagnosis, Prevention, and Treatment of Dementia  
Tadanori Hamano  
Department of Neurology, University of Fukui

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<th>Institution</th>
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<tr>
<td>S-25-1</td>
<td>Degradation of amyloid B protein and tau in Autophagy</td>
<td>Tadanori Hamano</td>
<td>Department of Neurology, University of Fukui, Japan</td>
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<tr>
<td>S-25-2</td>
<td>A Role of Lithium on Autophagy in Tau Propagation Cell Models</td>
<td>Yumiko Motoi</td>
<td>Juntendo University, Dept. of Diagnosis, Prevention, and Treatment of Dementia, Japan</td>
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<td>Juntendo University, Dept. of Neurology, Japan</td>
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<tr>
<td>S-25-3</td>
<td>Granulovacuolar degeneration in neurodegeneration</td>
<td>Koki Makioka</td>
<td>Department of Neurology, Gunma University Graduate School of Medicine, Japan</td>
</tr>
<tr>
<td>S-25-4</td>
<td>Alteration of autophagy-related proteins in synucleinopathies</td>
<td>Yasuo Miki</td>
<td>Department of Neuropathology, Hirosaki University Graduate School of Medicine, Japan</td>
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S-26 Symposium 26
Sep 1 (Tue) 9:00 ~ 10:30 Room 12 (Okayama International Center 8F Event Hall)

Pitfalls in medical treatment for dementia patients
Chairs: Akira Tamaoka
Department of Neurology, University of Tsukuba
Akira Kuzuya
Department of Neurology, Kyoto University Graduate School of Medicine

S-26-1 Pitfalls in the treatment of Alzheimer’s disease
Hiroyuki Shimada
Osaka City University Graduate School of Medicine Clinical Research Center for Dementia

S-26-2 Pitfalls in Management of Vascular Cognitive Impairment
Ken Nagata
Clinical Research Institute, Yokohama General Hospital

S-26-3 Pitfalls of clinical diagnosis of dementia with Lewy bodies
Yasuhiro Nagahama
Kawasaki Memorial Hospital

S-26-4 Pitfalls in the medical examination of frontotemporal lobar degeneration
Satoshi Tanimukai
Ehime University Graduate School of Medicine, Nursing and community health course, Department of Integrated community care for elderly

S-26-5 Pitfalls in the diagnosis and treatment of idiopathic normal pressure hydrocephalus (iNPH)
Akira Tamaoka
Department of Neurology, Faculty of Medicine, University of Tsukuba

S-27 Symposium 27
Sep 1 (Tue) 10:45 ~ 12:15 Room 04 (Okayama Convention Center 3F Conference Room 301)

Autoimmune encephalitis: Frontline diagnosis and treatment
Chairs: Satoshi Kamei
Center for Neuro-infections, Department of Neurology, Ageo Central General Hospital
Takashi Yamamura
Department of Immunology, National Institute of Neuroscience, NCNP

S-27-1 Nationwide survey of patients in Japan with autoimmune encephalitis
Michiaki Koga
Department of Neurology and Clinical Neuroscience, Yamaguchi University Graduate School of Medicine

S-27-2 Rapid diagnosis of the antibodies against neuronal surface antigens with a tissue-based assay
Makoto Hara
Division of Neurology, Department of Medicine, Nihon University School of Medicine
Autoimmune glial fibrillary acidic protein astrocytopathy
Akio Kimura
Department of Neurology, Gifu University Graduate School of Medicine

Myalgic encephalomyelitis/Chronic fatigue syndrome (ME/CFS) as a neuroimmunological disorder
Takashi Yamamura
Department of Immunology, National Institute of Neuroscience, NCNP

Current issues of transition from child to adult health services for childhood-onset neurological and muscular diseases

Chairs: Katsuhisa Ogata
Department of Neurology/Institute of Clinical Research, National Hospital Organization Higashisaitama National Hospital
Toshio Saito
Division of Child Neurology, Department of Neurology, National Hospital Organization Osaka Toneyama Medical Center

Current issues of transition: based on adult healthcare of Medical and Rehabilitation Center
Yoko Mochizuki
Department of Neurology, Tokyo Metropolitan Kita Medical and Rehabilitation Center for the Disabled

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

Transitional medicine (A role of National Hospital Organization)
Kazuya Takahashi
Department of Medicine, National Hospital Organization Iou National Hospital

Current status and issues in transition medicine: from the standpoint of child neurologists
Tatsuya Fujii
Department of Pediatrics, Shiga Medical Center for Children / Department of Child Neurology, Osaka Toneyama Medical Center

Nominal support: Japanese Society of Child Neurology
S-29 Symposium 29

Preparing for disease-modifying therapies in PD
- From biomarkers, animal models to novel therapeutic approach

Chairs: Carolyn Sue
The University of Sydney

Shigeki Arawaka
Department of Internal Medicine IV, Division of Neurology, Osaka Medical College

S-29-1 Updates of Liquid biomarkers in PD
Chin-Hsien Lin
National Taiwan University Hospital

S-29-2 Updates of liquid biomarkers and disease-modifying potential of an antiparkinsonian drug in PD
Shigeki Arawaka
Department of Internal Medicine IV, Division of Neurology, Osaka Medical College, Japan

S-29-3 Animal model for disease-modifying therapies in PD
Hodaka Yamakado
Kyoto University Hospital, Japan

S-29-4 Novel therapeutic strategies targeting mitochondria
Carolyn M. Sue
Kolling Institute of Medical Research, Australia / University of Sydney, Australia

S-29-5 Disease-modifying therapeutics targeting alpha-synuclein
Masayuki Nakamori
Department of Neurology, Osaka University Graduate School of Medicine, Japan

S-30 Symposium 30

Let’s learn about basic science for the future therapeutics

Chairs: Hideki Mochizuki
Department of Neurology, Osaka University

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

S-30-1 The Interest of Basic Research
Hideki Mochizuki
Department of Neurology, Osaka University Graduate School of Medicine

S-30-2 An Invitation to Basic Research from the President of the Japan Neuroscience Society
Michisuke Yuzaki
Keio University School of Medicine
### S-30-3

**Attractiveness of Basic Research -From the President of the Japanese Society for Neurochemistry-**

Schuichi Koizumi  
Department of Neuropharmacology, Interdisciplinary Graduate School of Medicine, University of Yamanashi

### S-30-4

**President of Japanese Society of Neuropathology Address:**  
**Neuropathology is the core of neurology**

Shigeo Murayama  
Department of Neurology and Neuropathology (the Brain Bank for Aging Research) / United Graduate School of Child Development


### S-31 Symposium 31

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**IBM intensive course ~up to date and pitfall~**

**Chairs:** Madoka Mori-yoshimura  
Department of Neurology, National Center Hospital, National Center of Neurology and Psychiatry  
Naoki Suzuki  
Department of Neurology, Tohoku University School of Medicine

#### S-31-1

**Sporadic inclusion body myositis gains importance in an aging society**  
Masashi Aoki  
Department of Neurology, Tohoku University School of Medicine

#### S-31-2

**Inclusion body myositis -clinical basis and pitfalls-**  
Madoka Mori-yoshimura  
Department of Neurology, National Center Hospital, National Center of Neurology and Psychiatry

#### S-31-3

**Needle electromyography of inclusion body myositis: a practical EMG guide for differential diagnosis**  
Mana Higashihara  
Department of Neurology, Tokyo Metropolitan Geriatric Medical Center

#### S-31-4

**Sporadic inclusion body myositis: histopathological findings and differential diagnosis**  
Akatsuki Kubota  
Department of Neurology, The University of Tokyo

#### S-31-5

**Videofluorographic findings in dysphagia with inclusion body myositis**  
Toshiyuki Yamamoto  
Department of Neurology, National Center Hospital, National Center of Neurology and Psychiatry
S-32 Symposium 32
Sep 1 (Tue) 14:15 ~ 15:45  Room 05 (Okayama Convention Center 3F Conference Room 302)

Non-motor symptoms of PD; Manifestation and pathomechanisms
Chairs: Hidefumi Ito
Department of Neurology, Wakayama Medical University
Shinsuke Fujioka
Department of Neurology, Fukuoka University

S-32-1 Non-motor features of Parkinson disease
Shinsuke Fujioka
Department of Neurology, Fukuoka University Faculty of Medicine

S-32-2 Neuropathological background of non-motor symptoms in Parkinson’s disease
Yuko Saito
Dept. Neuropath., National Center Hosp. of Neurology and Psychiatry

S-32-3 Constipation in Parkinson’s disease: chicken or egg?
Ryuji Sakakibara
Neurology, Internal Medicine, Sakura Medical Center, Toho University

S-32-4 Olfactory dysfunction as a biomarker in Parkinson’s disease
Toru Baba
Department of Neurology, National Hospital Organization Sendai-Nishitaga Hospital

S-33 Symposium 33
Sep 1 (Tue) 14:15 ~ 15:45  Room 06 (Okayama Convention Center 2F Reception Hall)

New era of neuroimaging and neurosonology
Chairs: Hidehiro Hirabayashi
National Hospital Organization Nara Medical Center, Japan
Dong-Eog Kim
Dongguk University, Seoul, Korea

S-33-1 New cerebral hemodynamic indicators using dual ASL perfusion imaging
Jyoji Nakagawara
Osaka Namba Clinic, Japan

S-33-2 MR Imaging of Neurovascular Abnormality: Experiences from A Quantitative Image-based Stroke Registry
Dong-Eog Kim
Department of Neurology, Dongguk University Ilsan Hospital, Korea

S-33-3 Magnetic resonance-guided focused ultrasound treatment for essential tremor-Our experience-
Hidehiro Hirabayashi
Department of Neurosurgery, National Hospital Organization Nara Medical Center, Japan
S-34 Symposium 34
Sep 1 (Tue) 14:15 ~ 15:45 Room 07 (Okayama Convention Center 2F Exhibition Hall)

Personalized Medicine for Neuroloimmunological Disorders: Present and Future

Chairs: Takashi Yamamura
Department of Immunology, National Institute of Neuroscience, NCNP
Tomoko Okamoto
Department of Neurology, National Center Hospital, National Center of Neurology and Psychiatry

S-34-1 Personalized medicine for immune-mediated neuropathy
Tomoko Okamoto
Department of Neurology, National Center Hospital, National Center of Neurology and Psychiatry

S-34-2 THE STATE OF NEUROLOGICAL DISEASES THAT PLASMAPHERESIS IS USUFUL
Youwei Lin
Department of Neurology, National Center Hospital, National Center of Neurology and Psychiatry / Department of Immunology, National Institute of Neuroscience, National Center of Neurology and Psychiatry

S-34-3 Can skew of circulating follicular helper T cells be an activity biomarker of myasthenia graves?
Takayuki Kondo
Department of Neurology, Kansai Medical University Medical Center

S-34-4 Therapeutic insights in neuromyelitis optica spectrum disorders
Manabu Araki
Department of Neurology, Kawakita General Hospital / Department of Immunology, National Institute of Neuroscience, National Center of Neurology and Psychiatry

S-35 Symposium 35
Sep 1 (Tue) 14:15 ~ 15:45 Room 09 (Okayama Prefectural Medical Association Office 4F Conference Room 402)

Neurometabolic disorders; updates on therapeutics and management

Chairs: Takayoshi Shimohata
Department of Neurology, Gifu University Graduate School of Medicine
Yoshiki Sekijima
Department of Medicine (Neurology & Rheumatology), Shinshu University School of Medicine

S-35-1 siRNA therapy for hereditary ATTR amyloidosis and its diagnosis in non-endemic area
Yoshiki Sekijima
Department of Medicine (Neurology & Rheumatology), Shinshu University School of Medicine

S-35-2 Hematopoietic stem cell transplantation for adrenoleukodystrophy
Takashi Matsukawa
Department of Molecular Neurology, Graduate School of Medicine, The University of Tokyo
Wilson disease: Don't miss important cases and continuous treatment
Hiroaki Miyajima
Division of Neurology, Hamamatsu University Hospital

Treatment of mitochondrial diseases with taurine
Yoshihide Sunada
Department of Neurology, Kawasaki Medical School

Treatment and management of lysosomal disease with neurological symptoms
Kazuya Tsuboi
LSD Center, Nagoya Central Hospital

Symposium 36

Sep 1 (Tue) 13:45 ~ 15:15    Room 12 (Okayama International Center 8F Event Hall)

Development of new frontier for elucidation of multiple system atrophy
Chairs: Yasuyuki Ohta
Division of Neurology, Department of Internal Medicine III, Yamagata University
Koichi Wakabayashi
Department of Neuropathology, Hirosaki University Graduate School of Medicine

Cellular pathology in multiple system atrophy
Koichi Wakabayashi
Department of Neuropathology, Hirosaki University Graduate School of Medicine, Japan

Alterations of Cerebello-Cerebral Resting State Networks in Multiple System Atrophy
Hirohisa Watanabe
Department of Neurology, Fujita Health University, Japan

How does exogenous alpha-synuclein get access to the endogenous alpha-synuclein proteins?
Takafumi Hasegawa
Division of Neurology, Department of Neuroscience & Sensory Organs, Tohoku University Graduate School of Medicine, Japan
Recent advances in temporal lobe epilepsy

Chairs: Hiroshi Shigeto
Department of Health Sciences, School of Medicine, Kyushu University
Kazutaka Jin
Department of Epileptology, Tohoku University Graduate School of Medicine

S-37-1 Diversity in temporal lobe epilepsy
Kiyohito Terada
Yokohama Minoru Epilepsy & Developmental Clinic / NHO Shizuoka Institute of Epilepsy and Neurological Disorders

S-37-2 Temporal lobe epilepsy and dementia
Naoki Akamatsu
Department of Neurology, International University of Health and Welfare School of Medicine / Fukuoka Sanno Hospital

S-37-3 Temporal lobe epilepsy and autoimmune encephalitis
Kazuhiro Kato
Department of Neurology, South Miyagi Medical Center

S-37-4 Higher Brain Dysfunction in temporal lobe epilepsy
Akihiro Shimotake
Department of Neurology, Kyoto University Graduate School of Medicine

S-37-5 Reduced relative volume of left CA1 accelerates long-term forgetting in temporal lobe epilepsy
Takahiko Mukaino
Department of Neurology, Neurological Institute, Graduate School of Medicine, Kyushu University

The cutting-edge discoveries of neurogenetics from Japan

Chairs: Manabu Funayama
Research Institute of Disease of Old Age, Graduate School of Medicine, Juntendo University
Wataru Satake
Dept Neurol, The Univ of Tokyo

S-38-1 The discovery of the gene responsible for Neuronal intranuclear inclusion disease: NIID
Jun Sone
National Hospital Organization Suzuka National Hospital

S-38-2 New noncoding repeat expansion diseases
Hiroyuki Ishiura
Department of Neurology, The University of Tokyo
The latest knowledge in genetics of inherited neuropathy
Yujiro Higuchi
Department of Neurology, Kagoshima University Hospital

Discovery of a new gene linked to Parkinson's disease:
Is Parkinson's disease a lysosomal disorder?
Yutaka Oji
Department of Neurology, Juntendo University School of Medicine

Clinical and molecular characterization of SCA36/Asidan
Yoshio Ikeda
Department of Neurology, Gunma University Graduate School of Medicine

Characteristic of Perry disease in Japan
Takayasu Mishima
Department of Neurology, Fukuoka University School of Medicine

The concept of MOG-IgG positive diseases
Chairs: Ichiro Nakashima
Department of Neurology, Tohoku Medical and Pharmaceutical University
Tatsuro Misu
Department of Neurology, Tohoku University

MOG-IgG assays and their clinical associations in children
Patrick Waters
University of Oxford, UK

Clinical manifestation of MOG-IgG associated encephalomyelitis
Sung Min Kim
Seoul National University Hospital, Korea

Immunological features of MOG-IgG diseases
Kimihiko Kaneko
Department of Neurology, NHO Miyagi National Hospital, Japan / Department of Neurology, Tohoku University, Japan

Pathology of MOG-IgG diseases
Yoshiki Takai
Department of Neurology, Tohoku University Hospital, Japan

Pediatric cases of MOG-IgG disease
Takahiro Ikeda
Department of Pediatrics, Jichi Medical University, Japan
S-40 Symposium 40

Sep 1 (Tue) 16:00 ~ 17:30  Room 07 (Okayama Convention Center 2F Exhibition Hall)

Low power pathologists have a high power

Chairs: Yasushi Iwasaki
Institute for Medical Science of Aging, Aichi Medical University
Toshiki Uchihara
Neurology Clinic with Neuromorphomics Lab, Nitobe-Memorial Nakano General Hospital

S-40-1 Cerebrovascular diseases and brain lesions due to systemic diseases; MRI-pathologic correlation
Fukashi Udaka
Department of Neurology, Sumitomo Hospital

S-40-2 Macroscopic findings of brain showing dementia
Yoshio Hashizume
Institute of Neuropathology, Fukushimura Hospital

S-40-3 Spinocerebellar Degeneration
Kiyoshi Iwabuchi
Mirai Clinic

S-40-4 Macroscopic findings for diagnostic clue of Parkinsonism
Mari Yoshida
Institute for Medical Science for Aging, Aichi Medical University

Nominal support: Japanese Society of Neuropathology, Japanese Society of Neuroradiology

S-41 Symposium 41

Sep 1 (Tue) 16:00 ~ 17:30  Room 09 (Okayama Prefectural Medical Association Office 4F Conference Room 402)

Neurorehabilitation for degenerative neurological diseases: Neuroplasticity to improvement of clinical outcome

Chairs: Yumiko Kaseda
Hiroshima City Rehabilitation Hospital
Takeshi Hayashi
Department of Neurology and Cerebrovascular Medicine

S-41-1 What are molecular mechanisms that physical exercise improves Alzheimer's disease?
Akiko Takeda
Department of Neurotherapeutics, Graduate School of Medicine, Osaka University

S-41-2 Repetitive transcranial magnetic stimulation for treatment of neurodegenerative disorders
Ritsuko Hanajima
Division of Neurology, Department of Brain and Neurosciences, Faculty of Medicine, Tottori University
S-41-3  Intensive Inpatient Neurorehabilitation for spinocerebellar degeneration
Ichiro Miyai
Neurorehabilitation Research Institute, Morinomiya Hospital

S-41-4  Combined therapy with cyborg-type robot HAL® for functional regeneration of neuromuscular diseases
Takashi Nakajima
Department of Neurology, National Hospital Organization Niigata National Hospital

S-42 Symposium 42
Sep 1 (Tue) 16:00 ~ 17:30  Room 11 (ANA Crowne Plaza Okayama 1F Kyokusui)
Novel approach for patients with acute stroke
Chairs: Kazumi Kimura
Nippon Medical School
Shigeru Fujimoto
Division of Neurology, Department of Medicine, Jichi Medical University

S-42-1  Reperfusion Strategy for Acute Ischemic Stroke: Tissue-based Patient Selection
Teruyuki Hirano
Department of Stroke and Cerebrovascular Medicine, Kyorin University

S-42-2  Reperfusion therapy for ischemic stroke; intravenous thrombolysis and endovascular therapy
Kazutaka Sonoda
Department of Neurology, Saiseikai Fukuoka General Hospital

S-42-3  Acute stroke rehabilitation: gait training using HAL® and comprehensive cardiovascular rehabilitation
Chiaki Yokota
Department of Stroke rehabilitation, National Cerebral and Cardiovascular Center

S-42-4  Novel antithrombotic therapies for acute ischemic stroke
Takehiko Nagao
Department of Neurology, Nippon Medical School Tama-Nagayama Hospital

S-43 Symposium 43
Sep 1 (Tue) 15:30 ~ 17:00  Room 12 (Okayama International Center 8F Event Hall)
Neurology Career Path: Neurologist as a key to visiting and home care
Chairs: Yuishin Izumi
Department of Neurology, Tokushima University Hospital
Naoki Matsuoka
Matsuoka Neurology Clinic

S-43-1  The current status and future tasks of home medical care in urban areas
Masatoshi Yoshino
Yoshino Clinic for Internal Medicine
The practice of neurologists to support home medical treatment in new residential area
Naoki Matsuoka
Matsuoka Neurology Clinic

What is necessary of a neurologist to support homecare for intractable neurological patients
Nozomi Ogasawara
ohnonaika

A nutrition care and home ventilation of patients with intractable neurological diseases
Yoshifumi Umaki
Aozora Clinic

**NFS-01 Neuroscience Frontier Symposium 01**

**En**

Sep 1 (Tue) 16:00 ~ 17:30 Room 10 (Okayama Prefectural Medical Association Office 2F Miki Memorial Hall)

New approaches aimed for the development of disease modifying therapies of Alzheimer's disease and other dementia diseases
Chairs: Takeshi Iwatsubo
The University of Tokyo, Neuropathology
Kenjiro Ono
Division of Neurology, Department of Medicine, Showa University School of Medicine

**NFS-01-1**
The pathological link of glia activation with amyloid clearance in Alzheimer disease
Taisuke Tomita
Laboratory of Neuropathology and Neuroscience, Graduate School of Pharmaceutical Sciences, The University of Tokyo, Japan

**NFS-01-2**
Principles of Inflammasome Priming and Inhibition: Implications for Neurodegenerative Disorders
Giulio M. Pasinetti
Icahn School of Medicine at Mount Sinai, USA / James J Peters Veterans Affairs Medical Center, USA

**NFS-01-3**
HMW Aβ oligomers are important targets for disease modifying approach of Alzheimer's disease
Kenjiro Ono
Division of Neurology, Department of Medicine, School of Medicine, Showa University, Japan

**NFS-01-4**
canceled
### HT-07  Hot Topics 07

**Sep 1 (Tue) 9:00 ~ 10:30  Room 01 (Okayama Convention Center 4F Conference Room 405)**

**Progress in functional neuroimaging in dementia**  
**Chairs:** Shun Shimohama  
Department of Neurology, Sapporo Medical University School of Medicine  
Haruo Hanyu  
Department of Geriatric Medicine, Tokyo Medical University

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<tr>
<th>Session</th>
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<th>Presenters</th>
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| HT-07-1  | Significance and prospect of histopathological correlation study of amyloid PET | Kenji Ishii  
Team for Neuroimaging Research, Tokyo Metropolitan Institute of Gerontology |
| HT-07-2  | Recent advancement in our understanding of pathological basis of dementia brought by Tau PET | 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) |
| HT-07-3  | PET imaging of reactive astrocytes                           | Nobuyuki Okamura  
Division of Pharmacology, Faculty of Medicine, Tohoku Medical and Pharmaceutical University |
| HT-07-4  | Nicotinic receptors PET and cognition                        | Yasuomi Ouchi  
Department of Biofunctional Imaging, Hamamatsu University School of Medicine |
| HT-07-5  | Early Diagnosis of Alzheimer’s disease using MRI-QSM         | Kohsuke Kudo  
Department of Diagnostic Imaging, Hokkaido University Graduate School of Medicine |

### HT-08  Hot Topics 08

**Sep 1 (Tue) 9:00 ~ 10:30  Room 02 (Okayama Convention Center 4F Conference Room 407)**

**Teleremedicine and online-medicine in neurology**  
**Chairs:** Sonoko Nozaki  
Kansai Rosai Hospital, Department of Neurology  
Akinori Nakamura  
National Hospital Organization Matsumoto Medical Center

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| HT-08-1  | Overview of telemedicine and online medicine                | Sonoko Nozaki  
Kansai Rosai Hospital, Department of Neurology & Rehabilitation |
| HT-08-2  | Usefulness of telemedicine in intractable neuromuscular disorders | Akinori Nakamura  
National Hospital Organization Matsumoto Medical Center |
| HT-08-3  | Telestroke (Telemedicine for acute stroke)                  | Yasuhiro Hasegawa  
Department of Neurology, St Marianna University School of Medicine |
Online medicine in the home-visit nursing service: effectiveness and problem
Mika Takeichi
Home-visit nursing station TABELU

The overview of guidelines of telemedicine
Keigo Ban
Medical Professions Division, Health Policy Bureau, Ministry of Health, Labour and Welfare

Is the concept of embolic stroke of undertermined source (ESUS) dead or alive?
Chairs: Kazunori Toyoda
Dept. of Cerebrovascular Medicine, National Cerebral and Cardiovascular Center
Takanari Kitazono
Department of Medicine and Clinical Science

H 09-1 Problems of ESUS criteria from the viewpoint of the guidelines for implantable cardiac monitor
Keiji Yamaguchi
Department of Neurology, Ichinomiya Nishi Hospital, Japan

H 09-2 Investigation of arteriogenic embolism
Yuji Ueno
Department of Neurology, Juntendo University Faculty of Medicine, Japan

H 09-3 Decision making of patent foramen ovale closure by brain and heart team
Hiroshi Yamagami
Department of Stroke Neurology, National Hospital Organization Osaka National Hospital, Japan

H 09-4 Subclassification of ESUS according to the responsiveness to anticoagulation
Shinichiro Uchiyama
Center for Brain and Cerebral Vessels, Sanno Hospital and Sanno Medical Center, Japan

H 09-5 Atrial cariopathy as a cause of ESUS
Hans C. Diener
Faculty of Medicine and Institute for Medical Informatics, Biometry and Epidemiology at the University of Duisburg-Essen, Germany

Nominal support: Japan Stroke Society, Japanese Society on Thrombosis and Hemostasis, Japan Society of Embolus Detection and Treatment, Cardiovascular Stroke Society of Japan
HT-10  Hot Topics 10
Sep 1 (Tue) 10:45 ~ 12:15  Room 02 (Okayama Convention Center 4F Conference Room 407)

Neurotoxicology update (its mechanisms and treatments)
Chairs: Takayoshi Shimohata
Department of Neurology, Gifu University Graduate School of Medicine
Atsushi Iwata
Department of Neurology, Tokyo Metropolitan Geriatric Medical Center

HT-10-1 methylmercury intoxication
Takayoshi Shimohata
Department of Neurology, Gifu University Graduate School of Medicine

HT-10-2 Tetanus toxin
Kentaro Tokumoto
NHO Shizuoka Institute of Epilepsy and Neurological Disorders, Dept. of Neurology

HT-10-3 Neurotoxicology of pesticides
Hiroo Ichikawa
Division of Neurology, Department of Internal Medicine, Showa University Rehabilitation Hospital

HT-10-4 Carbon monoxide intoxication
Takahiro Nakayama
Department of Neurology, Division of Neuromuscular Diseases, Yokohama Rosai Hospital

HT-11  Hot Topics 11
Sep 1 (Tue) 14:15 ~ 15:45  Room 01 (Okayama Convention Center 4F Conference Room 405)

An update on diagnostic and prognostic biomarkers in Parkinson's diseases
Chairs: Masahiko Tomiyama
Department of Neurology, Hirosaki University Graduate School of Medicine
Tetsuya Maeda
Division of Neurology and Gerontology, Department of Internal Medicine, School of Medicine, Iwate Medical University

HT-11-1 Neuroimaging biomarkers in Parkinson's disease and related disorders
Taku Hatano
Department of Neurology, Juntendo University, Faculty of Medicine, Japan

HT-11-2 Intestinal microbiota as biomarkers
Masaaki Hirayama
Nagoya University Graduate School of Medicine, Japan

HT-11-3 Biofluid biomarkers for parkinsonian disorders: focusing on blood-based biomarkers
Takahiko Tokuda
Department of Molecular Pathobiology of Brain Diseases, Kyoto Prefectural University of Medicine, Japan
HT-12 Hot Topics 12

Sep 1 (Tue) 14:15 ~ 15:45  Room 02 (Okayama Convention Center 4F Conference Room 407)

Hot topics of spinal cord diseases including cervical and lumbar spondylosis

Chairs: Tetsuo Ando
Anjo Kosei Hospital, Department of Neurology
Hirokazu Furuya
Department of Neurology, Kochi Medical School, Kochi University

HT-12-1 Clinico-pathology in cervical spondylosis
Takashi Kameyama
Department of Neurology, Chubu Rosai Hospital

HT-12-2 Large neurological data analysis to improve the diagnostic accuracy of cervical lesions
Hirokazu Furuya
Department of Neurology, Kochi Medical School, Kochi University

HT-12-3 Differential diagnosis and surgical indication of lumbar spinal diseases
Tetsuo Ando
Anjo Kosei Hospital, Department of Neurology

HT-12-4 Pathophysiology and management of low back pain - from the perspective of Rehabilitation Medicine
Noriaki Hattori
Department of Rehabilitation Medicine, Toyama University Hospital

HT-13 Hot Topics 13

Sep 1 (Tue) 16:00 ~ 17:30  Room 01 (Okayama Convention Center 4F Conference Room 405)

Recent advances in tauopathies

Chairs: Yoshio Tsuboi
Department of Neurology, Fukuoka University
Ichiro Yabe
Department of Neurology Faculty of Medicine and Graduate School of Medicine Hokkaido University

HT-13-1 Neuropathology of tauopathies
Mari Yoshida
Institute for Medical Science of Aging, Aichi Medical University

HT-13-2 Genetic aspects of typical and atypical tauopathy
Ichiro Yabe
Department of Neurology Faculty of Medicine and Graduate School of Medicine Hokkaido University
HT-13-3  Clinical aspects and therapeutic advances in tauopathies
Shinsuke Fujioka
Department of Neurology, Fukuoka University Faculty of Medicine

HT-13-4  Molecular mechanisms of neurodegenerative tauopathies
Masato Hasegawa
Department of Dementia and Higher Brain Function, Tokyo Metropolitan Institute of Medical Science

HT-14  Hot Topics 14

Radiological and pathological findings of rare diseases showing cognitive disorders
Chairs: Akira Tamaoka
Department of Neurology, University of Tsukuba
Takeshi Ikeuchi
Brain Research Institute, Niigata University

HT-14-1  Clinical, neuroimaging, and neuropathological features of ALSP/HDLS
Takeshi Ikeuchi
Brain Research Institute, Niigata University

HT-14-2  Clinical features and pathology of fragile X-related tremor / ataxia syndrome (FXTAS)
Kazuhiro Ishii
Department of Neurology, Faculty of Medicine, University of Tsukuba

HT-14-3  Imaging and pathology of CADASIL or CARASIL
Toshiki Mizuno
Dept. of Neurology, Kyoto Prefectural Univ. of Medicine

HT-14-4  Radiological and histopathological findings of Neuronal intranuclear inclusion disease: NIID
Jun Sone
National Hospital Organization Suzuka National Hospital

G  New Guideline

Dystonia, SCD/MSA, HAM
Chairs: Haruo Hanyu
Department of Geriatric Medicine, Tokyo Medical University
Muneshige Tobita
Department of Neurology, Yonezawa National Hospital, National Hospital Organization

G-1  Japanese guidelines on diagnosis and treatment of dystonias
Takahiro Mezaki
Department of Neurology, Sakakibara Hakuho Hospital
G-2  The essence of the clinical guideline for spinocerebellar ataxia and multiple system atrophy
Kunihiro Yoshida
Division of Neurogenetics, Department of Brain Disease Research, Shinshu University School of Medicine

G-3  HAM clinical guidelines based on real world evidence
Tomoo Sato
Institute of Medical Science, St. Marianna University School of Medicine