Chushikoku Block Special Session
-From the local Chushikoku to the World (1)-

Chairs: Shigeki Kuzuhara
Graduate School of Health Science, Suzuka University of Medical Science
Tatsushi Toda
Department of Neurology, Graduate School of Medicine, The University of Tokyo

CS-01-1 The world first report of fronto-temporal dementia (FTD)
Koji Abe
Okayama University, Department of Neurology

CS-01-2 Miyoshi Myopathy As a Distinct Type of Autosomal Recessive Distal Muscular Dystrophy
Hiroshi Nishino
NHO Tokushima National Hospital
Hisaomi Kawai
Minami-cho National Health Insurance Hiwasa Clinic

CS-01-3 Miyoshi-type distal muscular dystrophy-after discovery of the causative gene
Masashi Aoki
Department of Neurology, Tohoku University School of Medicine

CS-01-4 Neuroprotective therapy both for acute stroke and ALS
Koji Abe
Department of Neurology, Okayama University

CS-01-5 Discovery of Asidan (SCA36)
Yasuyuki Ohta
Department of Neurology, Okayama university

CS-01-6 Genetic mutations and molecular pathomechanisms in Asidan (SCA36)
Yoshitaka Nagai
Department of Neurotherapeutics, Osaka University Graduate School of Medicine

CS-01-7 Discovery of optineurin mutations in ALS
Hideshi Kawakami
Department of Epidemiology, RIRBM, Hiroshima University

CS-01-8 Taurine therapy for MELAS
Yoshihide Sunada
Department of Neurology, Kawasaki Medical School

CS-01-9 Discovery of a familial Alzheimer disease kindred (APP E693 del mutation) without amyloid deposition
Yumiko Kutoku
Department of Neurology, Kawasaki Medical School
**S-01 Symposium 01**  
Aug 31 (Mon) 10:30 ~ 12:00  Room 04 (Okayama Convention Center 3F Conference Room 301)

A novel approach to decipher molecular mechanisms of human demyelinating diseases

**Chairs:** Yuji Nakatsuji  
Department of Neurology, Toyama University Hospital  
Ryo Yamasaki  
Department of Neurology, Neurological Institute, Graduate School of Medical Sciences, Kyushu University

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-01-1</td>
<td>A genetic approach to uncover a novel target molecule for human demyelinating diseases</td>
<td>Takuya Matsushita</td>
<td>Department of Neurology, Kyushu University, Japan</td>
</tr>
<tr>
<td>S-01-2</td>
<td>A molecular immunopathological approach to decipher mechanisms of human demyelinating diseases</td>
<td>Tatsuro Misu</td>
<td>Department of Neurology, Tohoku University Hospital, Japan</td>
</tr>
<tr>
<td>S-01-3</td>
<td>How to image myelin using MRI</td>
<td>Yaou Liu</td>
<td>Department of Radiology, Beijing Tiantan Hospital, Capital Medical University, China</td>
</tr>
<tr>
<td>S-01-4</td>
<td>A genetically engineered mouse approach to elucidate molecular mechanisms of demyelinating diseases</td>
<td>Ryo Yamasaki</td>
<td>Department of Neurology, Neurological Institute, Graduate School of Medical Sciences, Kyushu University, Japan</td>
</tr>
</tbody>
</table>

*Nominal support: The Japanese Society for Neuroimmunology*

**S-02 Symposium 02**  
Aug 31 (Mon) 10:30 ~ 12:00  Room 05 (Okayama Convention Center 3F Conference Room 302)

Current status and perspectives of the Neuro-ICU in the world Neurology

**Chairs:** Masao Nagayama  
Department of Neurology, International University of Health and Welfare  
Graduate School of Medicine  
Tohru Aruga  
Japan Organization of Occupational Health and Safety

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-02-1</td>
<td>Management of severe emergency patients in neurology and importance of Neuro-ICU</td>
<td>Yasuyuki Ohta</td>
<td>Department of Neurology, Okayama university</td>
</tr>
</tbody>
</table>
S-02-2 Neurological Intensive Care Unit in the United States and Europe and Advances in Neuromonitoring
Masao Nagayama
Department of Neurology, International University of Health and Welfare Graduate School of Medicine

S-02-3 Simulation training in neurocritical Care and Neuro-ICU
Yasuhiro Kuroda
Department of Emergency, Disaster, and Critical Care Medicine, Faculty of Medicine, Kagawa University

S-02-4 Neuro-monitoring for management of neuromuscular disorders
Mana Higashihara
Department of Neurology, Tokyo Metropolitan Geriatric Medical Center

S-02-5 Progress in Guidelines from Prehospital through Intensive Cares for Neuro-resuscitation in Japan
Tohru Aruga
Japan Organization of Occupational Health and Safety

S-03 Symposium 03
Aug 31 (Mon) 10:30 ~ 12:00 Room 07 (Okayama Convention Center 2F Exhibition Hall)

Recent advances in neuroimaging in PSP / CBD
Chairs: Hirofumi Maruyama
Department of Clinical Neuroscience and Therapeutics, Hiroshima University
Yoshio Tsuboi
Department of Neurology, Fukuoka University

S-03-1 It’s not so tough for us to track tau changes in PSP/CBS, isn’t it?
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)

S-03-2 Neuroimaging for diagnosis of PSP and CBS
Wataru Sako
Department of Clinical Neuroscience, Institute of Biomedical Sciences, Tokushima University Graduate School

S-03-3 Diagnostic strategy of PSP/CBS with neuroimaging
Aya.m. Tokumaru
Department of Diagnostic Radiology, Tokyo Metropolitan Medical Center of Gerontology

S-03-4 adopted from free papers
The usefulness of quantitative susceptibility mapping in Parkinson's disease and related disorders
Keita Matsuura
Department of Neurology, Mie University
S-04 Symposium 04

Aug 31 (Mon) 10:30 ~ 12:00  Room 09 (Okayama Prefectural Medical Association Office 4F Conference Room 402)

**The science of vertigo/dizziness**

Chairs: Ken Johkura
Department of Neurology, Yokohama Brain and Spine Center
Toshio Fukutake
Kameda Medical Center Department of Neurology

**S-04-1**
Pathogenesis and treatment of vestibular migraine
Mamoru Shibata
Department of Neurology, Keio University School of Medicine

**S-04-2**
Vertigo caused by Cerebral Lesions
Toshio Fukutake
Department of Neurology, Kameda Medical Center

**S-04-3**
Chronic dizziness caused by infratentorial lesion
Ken Johkura
Department of Neurology, Yokohama Brain and Spine Center

**S-04-4**
Persistent postural-perceptual dizziness (PPPD)
Ken Johkura
Department of Neurology, Yokohama Brain and Spine Center

S-05 Symposium 05

Aug 31 (Mon) 10:30 ~ 12:00  Room 11 (ANA Crowne Plaza Okayama 1F Kyokusui)

**Treatment strategy update for MS and NMOSD**

Chairs: Kazumasa Yokoyama
Department of Neurology of Juntendo University
Jin Nakahara
Department of Neurology, Keio University School of Medicine

**S-05-1**
Corticosteroids and immunosuppressants for neuromyelitis optica spectrum disorder
Ichiro Nakashima
Division of Neurology, Tohoku Medical and Pharmaceutical University

**S-05-2**
The proper way to use IFN-beta and GA
Tatsusada Okuno
Department of Neurology, Osaka University Graduate School of Medicine

**S-05-3**
How to use MS oral drugs
Hirofumi Ochi
Department of Neurology and Geriatric Medicine, Ehime University Graduate School of Medicine

**S-05-4**
Natalizumab treatment for relapsing-remitting multiple sclerosis
Nobuaki Yoshikura
Department of neurology, Gifu university graduate school of medicine
### S-05-5

**New MS/NMOSD drugs on the horizon**  
**Jin Nakahara**  
Department of Neurology, Keio University School of Medicine

### S-06 Symposium 06  
**Symposium 06**  
Aug 31 (Mon) 10:30 ~ 12:00  
Room 12 (Okayama International Center 8F Event Hall)

#### Integration of the insights from various ALS models for preclinical study

**Chairs:**  
Makoto Urushitani  
Department of Neurology, Shiga University of Medical Science  
Yohei Iguchi  
Department of Neurology

| S-06-1 | Evaluation of toxicity of ALS-causing protein SOD1 using Caenorhabditis elegans | Yoshiaki Furukawa  
Laboratory for Mechanistic Chemistry of Biomolecules, Department of Chemistry, Keio University |
|-------|--------------------------------------------------------------------------------|--------------------------------------------------|
| S-06-2 | Drosophila models to study ALS | Morio Ueyama  
Department of Neurotherapeutics, Osaka University Graduate School of Medicine |
| S-06-3 | Utility and characteristics of mouse model for ALS | Yohei Iguchi  
Department of Neurology, Nagoya University Hospital |
| S-06-4 | Modeling ALS using iPSCs: Significance and Characteristics | Naoki Suzuki  
Department of Neurology, Tohoku University Hospital / Department of Neurology, Shodo-kai Southern TOHOKU General Hospital |
| S-06-5 | Advantage and availability in non-human primate model of ALS | Takuya Ohkubo  
Department of Neurology and Neurological Science, Graduate School of Medicine, Tokyo Medical and Dental University |
### S-07 Symposium 07
Aug 31 (Mon) 10:30 ~ 12:00  Room 13 (Okayama International Center 5F Conference Room 1)

**Mitochondrial diseases UPDATE**

Chairs: Yoshihide Sunada  
Department of Neurology, Kawasaki Medical School  
Yu-ichi Goto  
Medical Genome Center, National Center of Neurology and Psychiatry

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Speaker</th>
<th>Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-07-1</td>
<td>Diagnostic approach for mitochondrial diseases</td>
<td>Yu-ichi Goto</td>
<td>Medical Genome Center, National Center of Neurology and Psychiatry / Depart. of Mental Retardation and Birth Defect Research, National Institute of Neuroscience, National Center of Neurology and Psychiatry</td>
</tr>
<tr>
<td>S-07-2</td>
<td>Genotype-phenotype correlation in mitochondrial diseases</td>
<td>Makoto Yoneda</td>
<td>Faculty of Nursing &amp; Social Welfare Science, Fukui Prefectural University</td>
</tr>
<tr>
<td>S-07-3</td>
<td>Recently discovered new mitochondria diseases</td>
<td>Ichizo Nishino</td>
<td>Department of Neuromuscular Research, National Institute of Neuroscience, NCNP</td>
</tr>
<tr>
<td>S-07-4</td>
<td>Development of therapeutics for mitochondrial diseases: current status and prospects</td>
<td>Yoshihide Sunada</td>
<td>Department of Neurology, Kawasaki Medical School</td>
</tr>
</tbody>
</table>

### S-08 Symposium 08
Aug 31 (Mon) 13:30 ~ 15:00  Room 04 (Okayama Convention Center 3F Conference Room 301)

**CIDP: From bench to bedside**

Chairs: Sonoko Misawa  
Department of Neurology, Chiba University Graduate School of Medicine  
Motoi Kuwahara  
Department of Neurology, Kindai University Faculty of Medicine

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Speaker</th>
<th>Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-08-1</td>
<td>Pathogenesis of CIDP model mice</td>
<td>Masahiro Iijima</td>
<td>Division of Advanced Medicine, Nagoya University Hospital / Department of Neurology, Nagoya University Graduate School of Medicine</td>
</tr>
<tr>
<td>S-08-2</td>
<td>Clinical subtypes and autoantibodies in chronic inflammatory demyelinating polyneuropathy</td>
<td>Motoi Kuwahara</td>
<td>Department of Neurology, Kindai University Faculty of Medicine</td>
</tr>
<tr>
<td>S-08-3</td>
<td>Disruption of the blood-nerve barrier in CIDP</td>
<td>Yasuteru Sano</td>
<td>Department of Neurology and Clinical Neuroscience, Yamaguchi University Graduate School of Medicine</td>
</tr>
</tbody>
</table>
### S-08-4 Anti-neurofascin 155 antibody-positive CIDP
Hidenori Ogata  
Department of Neurology, Kyushu University Hospital

### S-09 Symposium 09
Aug 31 (Mon) 13:30 ~ 15:00  Room 05 (Okayama Convention Center 3F Conference Room 302)

Clinical ethics consultations help autonomous decision making by patients with intractable diseases  
Chairs: Kazuto Inaba  
Chukyo university  
Isao Nagano  
NHO Miyagi National Hospital

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Presenter</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-09-1</td>
<td>Clinical ethics consultation and its philosophical foundations</td>
<td>Atsushi Asai</td>
<td>Department of Medical Ethics, Tohoku University Graduate School of Medicine</td>
</tr>
<tr>
<td>S-09-2</td>
<td>Ethics consultation on law aspect</td>
<td>Kazuto Inaba</td>
<td>Chukyo university</td>
</tr>
<tr>
<td>S-09-3</td>
<td>Intake Process of Clinical Ethics Consultation</td>
<td>Koichiro Itai</td>
<td>University of Miyazaki, Interdisciplinary Graduate School of Medicine and Veterinary Medicine</td>
</tr>
<tr>
<td>S-09-4</td>
<td>Ethical intervention in the clinical practice at a hospital</td>
<td>Hiroaki Ito</td>
<td>Department of Internal Medicine, NHO Miyagi National Hospital</td>
</tr>
</tbody>
</table>

Nominal support: The Japanese Society of Medical Networking for Intractable Diseases

### S-10 Symposium 10
Aug 31 (Mon) 13:30 ~ 15:00  Room 06 (Okayama Convention Center 2F Reception Hall)

Neuroimaging of neurological disorders presenting parkinsonism  
Chairs: Shun Shimohama  
Department of Neurology, Sapporo Medical University School of Medicine  
Haruo Hanyu  
Department of Geriatric Medicine, Tokyo Medical University

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Presenter</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-10-1</td>
<td>Diagnostic imaging for Parkinson’s disease and Lewy body dementia</td>
<td>Syuuichirou Suzuki</td>
<td>Department of Neurology, School of Medicine, Sapporo Medical University</td>
</tr>
<tr>
<td>S-10-2</td>
<td>Diagnostic Imaging of progressive supranuclear palsy (PSP) and corticobasal degeneration (CBD)</td>
<td>Mineo Yamazaki</td>
<td>Dept. Neurology, Nippon Medical School Chiba Hokusoh Hospital</td>
</tr>
</tbody>
</table>
S-10-3  Diagnostic neuroimaging of multiple system atrophy  
Hidefumi Ito  
Department of Neurology, Wakayama Medical University

S-10-4  Diagnostic imaging of normal pressure hydrocephalus and vascular parkinsonism  
Hirofumi Sakurai  
Department of Geriatric Medicine, Tokyo Medical University

S-11 Symposium 11  
Aug 31 (Mon) 13:30 ~ 15:00  Room 07 (Okayama Convention Center 2F Exhibition Hall)

The cutting edge of imaging research for the neurodegenerative factors

Chairs: Makoto Yoneda  
Faculty of Nursing & Social Welfare Science, Fukui Prefectural University  
Masamichi Ikawa  
Department of Neurology, University of Fukui Hospital

S-11-1  Imaging of mitochondrial activity and neuroinflammation  
Yasuomi Ouchi  
Department of Biofunctional Imaging, Hamamatsu University School of Medicine

S-11-2  Molecular imaging for oxidative stress  
Masamichi Ikawa  
Department of Neurology, University of Fukui Hospital / Biomedical Imaging Research Center, University of Fukui

S-11-3  Metabolic analysis and imaging: brain MRS for Translational Research  
Yuhei Takado  
Department of Functional Brain Imaging Research, National Institutes for Quantum and Radiological Science and Technology

S-11-4  PET imaging of astrogliosis  
Akio Kikuchi  
Department of Neurology, Tohoku University Graduate School of Medicine
### S-12 Symposium 12

**Aug 31 (Mon) 13:30 ~ 15:00**  
**Room 09 (Okayama Prefectural Medical Association Office 4F Conference Room 402)**

The next-generation ALS clinical trials proposed from the 5 running investigator-initiated clinical trials in Japan  

**Chairs:**  
- Masashi Aoki  
  Department of Neurology, Tohoku University School of Medicine  
- Hitoshi Aizawa  
  Department of Neurology, Tokyo Medical University

|  
|---|
| **S-12-1** | Intrathecal injection of recombinant human HGF: a phase II clinical trial in ALS  
  Hitoshi Warita  
  Department of Neurology, Tohoku University Hospital |
| **S-12-2** | AMPA receptor antagonist for sporadic ALS  
  Hitoshi Aizawa  
  Department of Neurology, Tokyo Medical University |
| **S-12-3** | Japanese early-stage trial of high dose methylcobalamin for amyotrophic lateral sclerosis (JETALS)  
  Yuishin Izumi  
  Department of Neurology, Tokushima University Graduate School of Biomedical Sciences |
| **S-12-4** | Phase I/IIa study of Ropinirole, a candidate for ALS based on iPS cell drug discovery  
  Daisuke Ito  
  Department of Neurology, Keio University School of Medicine |
| **S-12-5** | A phase I dose escalation study of bosutinib for amyotrophic lateral sclerosis patients  
  Haruhisa Inoue  
  Center for iPS Cell Research and Application (CiRA), Kyoto University |

### S-13 Symposium 13

**Aug 31 (Mon) 13:30 ~ 15:00**  
**Room 12 (Okayama International Center 8F Event Hall)**

Dystonia Update  

**Chairs:**  
- Satoshi Kuwabara  
  Department of Neurology, Chiba University  
- Kazuko Hasegawa  
  National Hospital Organization Sagamihara National Hospital

|  
|---|
| **S-13-1** | Dystonia update - overview  
  Kazuko Hasegawa  
  National Hospital Organization, Sagamihara National Hospital / National Hospital Organization, Sagamihara clinical research center |
| **S-13-2** | Pathophysiology of dystonia: How are the basal ganglia and cerebellum involved in?  
  Satomi Chiken  
  Division of System Neurophysiology, National Institute for Physiological Sciences |
S-13-3  Genetic dystonias caused by disturbances in monoamine metabolism
Satoko Kumada
Department of Neuropediatrics, Tokyo Metropolitan Neurological Hospital

S-13-4  Effect of bilateral pallidal DBS for generalized dystonia patients
Makoto Taniuchi
Tokyo Metropolitan Neurological Hospital, Department of Neurosurgery

S-14  Symposium 14
Aug 31 (Mon)  15:15 ~ 16:45  Room 04 (Okayama Convention Center 3F Conference Room 301)
Cutting edge of the pathogenesis and treatment in peripheral neuropathies
Chairs : Takashi Kanda
Department of Neurology and Clinical Neuroscience, Yamaguchi University Graduate School of Medicine
Haruki Koike
Department of Neurology, Nagoya University Graduate School of Medicine

S-14-1  Leading-edge trend of therapeutic interventions for Guillain Barré syndrome
Sonoko Misawa
Department of Neurology, Chiba University Graduate School of Medicine

S-14-2  Pathogenesis and therapeutic strategies of CIDP from the viewpoint of autoantibodies
Kenichi Kaida
Department of Neurology, Saitama Medical Center, Saitama Medical University

S-14-3  Charcot-Marie-Tooth disease and HNPP: advances in diagnosis and treatments
Yuji Okamoto
Department of Neurology and Geriatrics, Kagoshima University Graduate School of Medical and Dental Sciences, Kagoshima, Japan

S-14-4  New therapeutic options for vasculitic peripheral neuropathy
Yukio Takeshita
Department of Neurology and Clinical Neuroscience Yamaguchi University Graduate School of Medicine
**S-15 Symposium 15**

Aug 31 (Mon) 15:15 ~ 16:45  Room 05 (Okayama Convention Center 3F Conference Room 302)

**Overcoming refractory headaches**

**Chairs:** Takao Takeshima  
Department of Neurology, Headache Center, Tominaga Hospital  
Norihiro Suzuki  
Department of Neurology, Shonan Keikyu Hospital

**S-15-1** What's the definition of severe headaches  
Yasuo Ito  
Department of Neurology, Saitama Medical University

**S-15-2** Diagnosis and treatment of chronic migraine and medication overuse headache  
Noboru Imai  
Japanese Red Cross Shizuoka Hospital

**S-15-3** Chronic cluster headache  
Shoji Kikui  
Department of Neurology

**S-15-4** New daily persistent headache  
Muneto Tatsumoto  
Medical Safety Management Center, Dokkyo Medical University Hospital

**S-15-5** Persistent headache attributed to traumatic injury/whiplash  
Michiyasu Suzuki  
Department of Neurosurgery Yamaguchi University Graduate School of Medicine  /  Department of Advanced ThermoNeuroBiology Yamaguchi University Graduate School of Medicine

---

**S-16 Symposium 16**

Aug 31 (Mon) 15:15 ~ 16:45  Room 06 (Okayama Convention Center 2F Reception Hall)

**Autoimmune epilepsy**

**Chairs:** Akio Ikeda  
Department of Epilepsy, Movement Disorders and Physiology, Kyoto  
University Graduate School of Medicine  
Riki Matsumoto  
Division of Neurology, Kobe University Graduate School of Medicine

**S-16-1** Pathophysiology of autoimmune epilepsy  
Bo Sun  
University of Oxford, UK  /  Association of British Neurologists, UK

**S-16-2** Diagnosis of autoimmune epilepsy  
Mitsuhiro Sakamoto  
Department of Neurology, Rakuwakai Otowa Hospital, Japan

**S-16-3** Clinical management for an acute phase of autoimmune epilepsy  
Yuto Uchida  
Nagoya City University, Japan  /  Toyokawa City Hospital, Japan
Clinical variability of autoimmune epilepsy
Kazutaka Jin
Department of Epileptology, Tohoku University Graduate School of Medicine, Japan

Symposium 17
Aug 31 (Mon) 15:15 ~ 16:45  Room 07 (Okayama Convention Center 2F Exhibition Hall)
Dream of ideal medical care for intractable diseases: challenges and prospects
Chairs: Jun-ichi Kira
Department of Neurology, Neurological Institute, Graduate School of Medical Sciences, Kyushu University
Mieko Ogino
International University of Health and Welfare, School of Medicine, Office of Medical Education

Medical care network under the act on medical care for patients with intractable diseases
Jun-ichi Kira
Department of Neurology, Neurological Institute, Graduate School of Medical Sciences, Kyushu University

To establish the transition support systems for patients with childhood-onset chronic diseases
Naoko Kakee
Division of Bioethics, National Center for Child Health and Development

The hopes and expectations for the development of the Intractable/Rare Disease Act by the afflicted
Tateo Itou
Japan Patients Association

How to deal with ultra-high-cost medical care to intractable disease
Mieko Ogino
International University of Health and Welfare, School of Medicine, Office of Medical Education
Nominal support: The Japanese Society of Medical Networking for Intractable Diseases

Symposium 18
Aug 31 (Mon) 15:15 ~ 16:45  Room 09 (Okayama Prefectural Medical Association Office 4F Conference Room 402)
New development of evolving intractable muscle diseases
Chairs: Kazuma Sugie
Department of Neurology, Nara Medical University
Yukiko Hayashi
Department of Pathophysiology, Tokyo Medical University

Frontier in distal myopathy
Ichizo Nishino
Department of Neuromuscular Research, National Institute of Neuroscience, NCNP
### S-18-2 Diagnosis of inclusion body myositis and development of new treatments
Masashi Aoki  
Department of Neurology, Tohoku University School of Medicine

### S-18-3 Adult patients with congenital myopathy
Yukiko Hayashi  
Department of Pathophysiology, Tokyo Medical University

### S-18-4 Frontiers in the diagnosis and treatment of Danon disease and related autophagic vacuolar myopathies
Kazuma Sugie  
Department of Neurology, Nara Medical University

### S-19 Symposium 19
Aug 31 (Mon) 15:15 ~ 16:45  Room 12 (Okayama International Center 8F Event Hall)

**The development for Japan’s prion disease research leading in the world**

**Chairs:** Masahito Yamada  
Department of Neurology and Neurobiology of Aging, Kanazawa University  
Graduate School of Medical Sciences  
Katsuya Satoh  
Department of Locomotive Rehabilitation Science, Unit of Rehabilitation Sciences, Nagasaki University Graduate School of Biomedical Sciences

### S-19-1 Creutzfeldt-Jakob disease/Gerstmann-Sträussler-Scheinker disease
Nobuo Sanjo  
Department of Neurology and Neurological Science, Tokyo Medical and Dental University, Graduate School of Medical and Dental Sciences

### S-19-2 Neuroimaging studies in prion disease
Koji Fujita  
Department of Neurology, Tokushima University Hospital

### S-19-3 Cerebrospinal fluid analysis for the diagnosis in prion disease patients
Katsuya Satoh  
Department of Health Sciences, Unit of Rehabilitation Sciences, Nagasaki University Graduate School of Biomedical Sciences

### S-19-4 Neuropathology of prion disease
Yasushi Iwasaki  
Institute for Medical Science of Aging, Aichi Medical University

### S-19-5 Treatment for prion diseases
Yoshio Tsuboi  
Department of Neurology, Fukuoka University

**Nominal support:**  
Japanese Society for Neuroinfectious Disease, Asian Pacific Society of Prion Research (APSPR)
Front line of neuromodulation by non-invasive brain stimulation
- from basic to clinical

Chairs: Yasuo Terao
Department of Medical Physiology
Ritsuko Hanajima
Division of Neurology, Department of Brain and Neurosciences, Faculty of Medicine, Tottori University

HT-01-1 Recent Topics in Neuromodulation by transcranial Static Magnetic Stimulation
Tatsuya Mima
The Graduate School of Core Ethics and Frontier Sciences, Ritsumeikan University, Japan

HT-01-2 Clinical application of neuromodulation with transcranial electrical stimulation
Katsuya Ogata
School of Pharmacy at Fukuoka, International University of Health and Welfare, Japan

HT-01-3 Effects of quadripulse stimulation (QPS) on sequential motor learning
Takahiro Shimizu
Division of Neurology, Department of Brain and Neurosciences, Faculty of Medicine, Tottori University, Japan

HT-01-4 Bypassing damaged neural pathways via a neural interface
Yukio Nishimura
Neuroprothetics Project, Tokyo Metropolitan Institute of Medical Science, Japan

Studies on multifactorial diseases using "Big Data"

Chairs: Yoichiro Kamatani
Graduate School of Frontier Sciences, the University of Tokyo
Hiroyuki Ishiura
Department of Neurology, The University of Tokyo

HT-02-1 Understanding complex diseases using genomic big data
Yoichiro Kamatani
Graduate School of Frontier Sciences, the University of Tokyo / RIKEN Center for Integrative Medical Sciences

HT-02-2 Genomic studies of Parkinson's disease and its application
Wataru Satake
Dept Neuro, The Univ of Tokyo

HT-02-3 Clinical phenotypes and genes in ALS from the big data and perspectives on therapeutic development
Naoki Atsuta
Department of Neurology, Nagoya University Hospital
HT-02-4 An integrative multi-omics approach for dementia
Daichi Shigemizu
Medical Genome Center, National Center for Geriatrics and Gerontology / Medical Research Institute, Tokyo Medical and Dental University / RIKEN Center for Integrative Medical Sciences

HT-02-5 Large-scale exome analysis highlights genetic complexity in epileptic encephalopathy
Atsushi Takata
Department of Human Genetics, Yokohama City University Graduate School of Medicine

HT-03-1 Current migraine management
Hisaka Igarashi
Headache Unit, Department of Internal Medicine, Fujitsu Clinic, Japan

HT-03-2 Anti-CGRP antibodies
David W. Dodick
Mayo Clinic, USA

HT-03-3 Gepants and lasmiditan: novel players in acute migraine treatment
Mamoru Shibata
Department of Neurology, Keio University School of Medicine, Japan

HT-03-4 Devices (Cefaly/gammaCore)
Daisuke Danno
Headache center, Department of Neurology, Tominaga hospital, Japan

HT-03-5 Multidisciplinary team approaches for intractable chronic pain
Takahiro Ushida
Multidisciplinary Pain Center, Aichi Medical University, Japan

Nominal support: Japanese Headache Society
## HT-04  Hot Topics 04

Aug 31 (Mon) 13:30 ~ 15:00  Room 02 (Okayama Convention Center 4F Conference Room 407)

### The future of neurology utilized AI and BMI

**Chairs:** Shunya Takizawa  
Division of Neurology, Department of Internal Medicine, Tokai University  
School of Medicine  
Yasuyuki Iguchi  
Department of neurology, the Jikei University school of medicine

### HT-04-1

**Title:** Machine learning underpinning AI and BMI for clinical application to neurological disorders  
**Speaker:** Takashi Hanakawa  
Department of Integrated Neuroanatomy and Neuroimaging, Kyoto University Graduate School of Medicine

### HT-04-2

**Title:** Understandings of higher-order functional circuit through transcranial magnetic stimulation  
**Speaker:** Ken-ichiro Tsutsui  
Laboratory of Systems Neuroscience, Tohoku University Graduate School of Life Sciences

### HT-04-3

**Title:** Application of BMI-mediated Neurofeedback technique in rehabilitation medicine  
**Speaker:** Masahito Mihara  
Department of Neurology, Kawasaki Medical School

### HT-04-4

**Title:** Prospect of teleneurology  
**Speaker:** Yasuyuki Iguchi  
Department of Neurology, the Jikei University School of Medicine

### HT-04-5

**Title:** Functional recovery in neuromuscular disease by the introduction of HAL®  
**Speaker:** Keiji Yamaguchi  
Ichinomiya Nishi Hospital

## HT-05  Hot Topics 05

Aug 31 (Mon) 15:15 ~ 16:45  Room 01 (Okayama Convention Center 4F Conference Room 405)

### Future prospects of drug development for neurological disorders by major pharmaceutical companies and Public Private Partnership

**Chairs:** Taknori Yokota  
Department of Neurology, Tokyo Medical and Dental University  
Shinichi Takahashi  
Saitama Medical University International Medical Center, Department of Neurology and Stroke

### HT-05-1

**Title:** Success and Challenge of Academia-driven R&D for Medical Innovation  
**Speaker:** Yoji Nagai  
Kobe University Hospital, Clinical & Translational Research Center
National strategy for drug discovery through industry-academia collaboration
Hideshi Senba
Ministry of Education, Culture, Sports, Science and Technology, Japan
Life Sciences Division, Research Promotion Bureau

Open innovation at pharmaceutical companies
Toshiyuki Nakanishi
R&D Planning & Management Department, R&D Division, Daiichi Sankyo

Recent Advances in Precision Medicine Approaches to Making Breakthrough Medicines for CNS Diseases
Ceri H. Davies
Takeda Pharmaceuticals Company, Japan

Biogen Perspective on Drug Development for Neurological Diseases
The example of Alzheimer’s Disease
Alfred Sandrock
Biogen Inc., USA

Next steps to overcome proteinopathies
Chairs: Hitoshi Shimada
Department of Functional Brain Imaging Research (DOFI), National Institute of Radiological Sciences (NIRS), National Institutes for Quantum and Radiological Science and Technology (QST)
Takashi Nonaka
Dementia Research Project, Tokyo Metropolitan Institute of Medical Science

Prion-like properties of intracellular protein aggregates
Takashi Nonaka
Dementia Research Project, Tokyo Metropolitan Institute of Medical Science

Next generation therapeutic targets for Synucleinopathy
Ayami Okuzumi
Department of Neurology, Juntendo University School of Medicine / Doshisha University Graduate School of Brain Science

What is the rationale for anti-amyloid beta therapy in Alzheimer’s disease?
Atsushi Iwata
Department of Neurology, Tokyo Metropolitan Geriatric Medical Center Hospital

Neuropathological study of tauopathy and development of new treatments
Miho Uematsu
Department of Immunology and Genomics, Osaka City University Graduate School of Medicine
Functional loss of RNA binding proteins in tauopathies
Shinsuke Ishigaki
Research Division of Dementia and Neurodegenerative Disease, Nagoya University Graduate School of Medicine / Department of Neurology, Nagoya University Graduate School of Medicine / Brain and Mind Research Center, Nagoya University