

## Cerebrovascular disease (clinical research 1)

- O-01-1** Investigation of hyperperfusion after thrombectomy by the use of arterial spin labeling  
Naoya Yamzaki  
Department of Neurology, Iwate prefectural central hospital
- O-01-2** MRA study of Circle of Willis, Variation and Age-related changes  
Yoko Okada  
Department of Neurology and Geriatric Medicine, Ehime University Graduate School of Medicine
- O-01-3** The survey of stroke medical care in rural area and isolated remote island  
Takafumi Mashiko  
Division of Neurology, Department of Internal Medicine, Jichi Medical University
- O-01-4** ICM implantation for ESUS  
Tomonari Saito  
NTT medical center Tokyo / Department of Neurology, Nippon Medical School
- O-01-5** Clinical features and imaging findings of unilateral posterior spinal artery syndrome  
Kazutaka Hayashi  
Department of Neurology, Fujita Health University School of Medicine
- O-01-6** A study of urokinase intravenous therapy for branch atheromatous disease with progressive symptoms  
Yutaka Suto  
Department of Neurology, Matsue Red Cross Hospital
- O-01-7** The relationship between undernutrition and dysphagia in acute ischemic stroke  
Tetsuya Chiba  
Department of Neurology, National Cerebral and Cardiovascular Center, Suita, Japan / Division of Cerebrovascular Medicine, National Cerebral and Cardiovascular Center, Suita, Japan
- O-01-8** The course of facial corticonuclear tract in lateral medullary infarction  
Takamichi Kanbayashi  
Department of Neurology Teikyo University School of Medicine
- O-01-9** Thrombolysis for ischemic stroke with unknown time of onset based on DWI-FLAIR mismatch  
Asuka Yasuura  
Department of Neurology, Musashino Red Cross Hospital

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**O-01-10** Prospective study of microembolism and cognitive function after ablation of atrial fibrillation

**Natsuko Kato**

Department of Neurology, Graduate School of Medicine, Mie University / Department of Dementia Prevention and Therapeutics

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**O-02 Oral Session 02**

**En**

**Peripheral Neuropathy 1 E**

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**O-02-1** Frequent subclinical cranial nerve involvement in IgG4 anti-NF155 antibody-positive CIDP

**Hidenori Ogata**

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

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**O-02-2** Two subtypes of anti-neurofascin 155/contactin-1 antibody-negative CIDP by CSF cytokine profiling

**Xu Zhang**

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

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**O-02-3** Investigation on the site of action of immunoglobulin as an immunomodulator

**Masahiro Iijima**

Division of Advanced Medicine, Nagoya University, Japan / Department of Neurology, Nagoya University Graduate School of Medicine, Japan

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**O-02-4** Brachial plexus involvements in patients with ALS and CIPD: MR neurography study

**Tomomasa Ishikawa**

Department of Neurology, Fujita Health University School of Medicine, Japan

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**O-02-5** Diversity in clinical phenotype of patients with neuronal intranuclear inclusion disease

**Tomoko Okamoto**

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

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**O-02-6** Neuroprotective activities of exendin-4 toward dorsal root ganglion neurons and Schwann cells

**Kazunori Sango**

Diabetic Neuropathy Project, Tokyo Metropolitan Institute of Medical Science, Japan

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**O-02-7** Induction therapy for POEMS syndrome:  
A comparison study of thalidomide, lenalidomide and bortezomib

**Tomoki Suichi**

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

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- O-02-8 Clinical characteristics of GBS with pain as an initial symptom  
Naohiro Sakamoto  
Department of Neurology, Anti-aging and Vascular medicine, Division of Internal Medicine, National Defense Medical College, Japan
- O-02-9 Hearing impairment due to arsenic  
~International comparison between Miyazaki and Myanmar~  
Hitoshi Mochizuki  
Department of Neurology, University of Miyazaki, Japan
- O-02-10 withdrawn

O-03 Oral Session 03

Jp

Parkinsonism and Related disorders (clinical research 1)

- O-03-1 Study of sleep disorder by using wearable devices in Parkinson's disease  
Masashi Suzuki  
Department of Neurology, Nagoya University Graduate School of Medicine
- O-03-2 Orthostatic hypotension in Parkinson's disease: Evaluation using tilt table  
Hiroko Kurono  
Saiseikai Kanagawaken Hospital, Neurology
- O-03-3 Relation of drooling with motor symptoms and dopamine transporter imaging in Parkinson's disease  
Yasunori Mito  
Department of Neurology, Sapporo City General Hospital
- O-03-4 Association with DAT QUANT to blood pressure circulatory insufficiency in Parkinson's disease  
Tomomichi Kitagawa  
Department of Neurology, Daisan Hospital, The Jikei University School of Medicine
- O-03-5 The Efficacy of the treatment of prevertebral muscles in antecollis dystonia  
Takashi Sakamoto  
Department of Neurology, National Center Hospital of Neurology and Psychiatry
- O-03-6 Neuromelanin and DAT SPECT in generalized dystonia  
Jun Ikezawa  
Department of Neurology, Tokyo Metropolitan Neurological Hospital / Department of Neurology and Stroke Medicine, Yokohama City University
- O-03-7 Gender differences in age at onset of primary dystonia  
Shinichi Matsumoto  
Department of neurology, oosaka neurological institute

**O-03-8** Adverse events of unilateral thalamotomy or pallidotomy using MR-guided focused ultrasound

Hisashi Ito

Department of Neurology, Shonan Fujisawa Tokushukai Hospital

**O-03-9** rCBF laterality using ECD might predict clinical effectiveness of Perampanel in 7 CBS-CBD patients

Miwako Kido

National Hospital organization Okinawa National Hospital division of Neurology

**O-03-10** Current trends in use of the MAO-B inhibitors: the investigation on 2019

Shoji Kawashima

Department of Neurology, Nagoya City University

## O-04 Oral Session 04

En

### Clinical Neurophysiology 1 E

**O-04-1** Ataxic phenotype with altered Cav3.1 channel property in a mouse model for spinocerebellar ataxia 42

Shunta Hashiguchi

Department of Neurology and Stroke Medicine, Yokohama City University Graduate School of Medicine, Japan

**O-04-2** RELATIONSHIP BETWEEN CORTICAL EXCITABILITY AND COGNITIVE DYSFUNCTION IN ALS

Mana Higashihara

Westmead Clinical School, University of Sydney, Australia / Department of Neurology, Tokyo Metropolitan Geriatric Medical Center, Japan

**O-04-3** Clinical and laboratory Features of Elderly-Onset Temporal Lobe Epilepsy:comprehensive data analysis

Hirofumi Takeyama

Department of Respiratory Care and Sleep Control Medicine, Kyoto University, Japan

**O-04-4** Neural processes during picture naming are lateralized and category-biased in occipitotemporal areas

Kiyohide Usami

Department of Epilepsy, Movement Disorders and Physiology, Kyoto University Graduate School of Medicine, Japan / Department of Neurology, Johns Hopkins University School of Medicine, USA

**O-04-5** Characteristics of the intercortical epileptic network: a cortico-cortical evoked potential study

Masaya Togo

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

**O-04-6** Eye-hand coordination in reaching task in SCA compared with Parkinson disease

Satomi Inomata-terada

Department of Medical Physiology, Kyorin University, Japan

O-04-7 Neurofeedback facilitation of imagery-related SMA activation improves gait in PD

Masahito Mihara

Department of Neurology, Kawasaki Medical School, Japan

O-04-8 Severe sleep apnea syndrome diagnosed at a neurology department --- present status and problems

Hidehiro Shibayama

Department of Neurology, Kameda Medical Center, Japan

O-04-9 Clinical characteristics in patients with nonlesional late-onset epilepsy

Naoto Nagino

Stroke & Epilepsy Center, TMG Asaka Medical Center, Japan

O-04-10 Walking ability Improvement using Hybrid Assistive Limb<sup>®</sup> for Amyotrophic lateral sclerosis patients

Kiyoko Murata

Department of Neurology, Toho University Faculty of Medicine, Japan

## O-05 Oral Session 05

En

### Motor Neuron Disease 1 E

O-05-1 Exome analysis in 137 autopsied sporadic ALS cases

Tomohiko Ishihara

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

★ O-05-2 Novel mutation in optineurin causing aggressive ALS+/- frontotemporal dementia

(APe-01-7)

Zhangyu Zou

Fujian Medical University Union Hospital, China

O-05-3 CCR2-positive macrophages infiltrated into the peripheral nerves protect motor neuron disease

Wataru Shiraishi

Department of Neurology, neurological Institute, Graduate School of Medicine, Kyushu University, Japan

O-05-4 Nusinersen improves muscle fatigue: a preliminary repetitive nerve stimulation study in adult SMA

Takeshi Araki

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

O-05-5 Efficacy and safety of mexiletine in amyotrophic lateral sclerosis: A systematic review

Karen Joy B. Adiao

University of the Philippines-Philippine General Hospital, Philippines

- O-05-6 The involvement of hypoxia stress in amyotrophic lateral sclerosis: in vivo imaging of HIF-1 $\alpha$   
Emi Nomura  
Department of Neurology, Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama University, Japan
- O-05-7 Prognosis and clinical features of ALS patients in Japan  
Naoki Atsuta  
Nagoya University, Japan
- O-05-8 The Edinburgh Cognitive and Behavioural ALS Screen (ECAS) for Japanese ALS and FTD Patients  
Yasuhiro Watanabe  
Division of Neurology, Department of Brain and Neurosciences, Faculty of Medicine, Tottori University, Japan
- O-05-9 Clinical characteristics and pathophysiology of a rare muscle atrophy in superficial siderosis  
Ryo Iwase  
Department of Neurology and Neurological Science, Tokyo Medical and Dental University, Japan

O-06 Oral Session 06

Jp

Epilepsy

- O-06-1 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
- O-06-2 Clinical portrait of Epilepsy-related organ dysfunction (Epi-ROD)  
Sunghoon Yang  
Department of Neurology/Center for Stroke and Neurocritical Care, International University of Health and Welfare Atami Hospital
- O-06-3 withdrawn
- O-06-4 The impact of enzyme inducing AED on serum lipid levels in elderly patients with epilepsy  
Satoshi Okada  
Department of Neurology, Ichikawa General Hospital, Tokyo Dental College
- O-06-5 Factors related to disability at discharge in elderly patients with status epilepticus  
Kazuma Tsuto  
Department of Neurology and Stroke Treatment, Acute Stroke Center of Kyoto First Red Cross Hospital

O-06-6 Fragile Extracellular K<sup>+</sup> May Be Related to Seizure Susceptibility in Intractable Human Epilepsy

Masahiro Gotoh

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

O-06-7 Postictal SPECT in adult onset focal epilepsy

Kazuki Fukuma

Department of Neurology, National Cerebral and Cardiovascular Center

O-06-8 An evaluation of the alteration about epilepsy treatment with newer antiepileptic drugs

Takahiro Mitsueda

Japanese Red Cross Otsu Hospital, Department of Neurology

O-06-9 withdrawn

O-06-10 Post-Infarction Early Epileptic Seizures:Recurrence and Outcome

Satoshi Kataoka

Kurashiki Kinen Hospital Department of Neurology

O-07 Oral Session 07

Jp

## Neuroimmunology 1

O-07-1 Clinical features of patients with meningoencephalitis/  
meningoencephalomyelitis with CSF GFAP-IgG

Takuya Kudo

Department of Neurology, Gifu University Graduate School of Medicine

O-07-2 Clinical features of patients with cerebellar ataxia with anti-mGluR1 antibodies

Akio Kimura

Department of Neurology, Gifu University Graduate School of Medicine

O-07-3 Screening of autoimmunity with immunohistochemistry, in patients with subacute cerebellar ataxia

Nobuaki Yoshikura

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

O-07-4 Factors related to poor outcome in patients with acute encephalitis syndrome

Atsushi Yamamoto

Department of Neurology and Stroke Treatment, Kyoto First Red Cross Hospital

O-07-5 Clinical study of six patients with MOG antibody-related disorder

Akane Satake

Department of Neurology, University of Yamanashi

O-07-6 Clinical characteristic, treatment and prognosis of 4 cases of anti-NMDA receptor encephalitis

Yuki Choh

Tokyo Metropolitan Bokutoh Hospital

O-07-7 Clinical features of anti-MOG antibody associated diseases - a report of 4 cases

Yuka Chin

Department of Neurology, Tokai University Hachioji Hospital

O-07-8 Radiographic and clinical features of tumefactive demyelinating disease with anti-MOG antibody

Takahiro Mori

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

O-07-9 Presence of anti KIR4.1 autoantibodies in MS : systematic review  
Michie Imamura

Department of Neurology, Graduate School of Medical Sciences, Kumamoto University

O-07-10 National Survey of Autoimmune Encephalitis: Analysis of VGKC Complex Antibody

Mariko Oishi

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

## O-08 Oral Session 08

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### Neurogenetics / Gene therapy 1 E

O-08-1 Systemic injection of a peptide drug ameliorates the dystrophic phenotype in DMD model mice

Yoshihide Sunada

Kawasaki Medical School, Department of Neurology, Japan

O-08-2 Slipped-CAG DNA binding small molecule induces trinucleotide repeat contractions in vivo

Masayuki Nakamori

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

O-08-3 Development of BBB-penetrating heteroduplex oligonucleotides (HDO)

Takanori Yokota

Tokyo Medical and Dental University, Japan

O-08-4 Treatment for FAP with overhanging heteroduplex oligonucleotides by transferrin-mediated delivery

Kotaro Yoshioka

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

O-08-5 The involvement of humanin in development of Parkinson's disease

Adrianna Wasinska

Jagiellonian University Medical college, Poland

O-08-6 Reduction of mRNA aggregation in myotonic dystrophy by CRISPR interference

Fumiaki Saito

Teikyo University, Department of Neurology, Japan

O-08-7 Influence of MAOB, DRD2, DDC genes variability on clinical course of patients with PD

Jan A. Koper

Jagiellonian University Medical college, Poland

O-08-8 Decrease of differentiation- and regeneration-related genes in dystrophin-deficient cardiomyocytes

Daigo Miyazaki

Department of Medicine (Neurology and Rheumatology), Shinshu University School of Medicine, Japan / Intractable Disease Care Center, Shinshu University Hospital, Japan

O-08-9 A Japanese family of primary familial brain calcification with paroxysmal kinesigenic dyskinesia

Akihiko Mitsutake

Department of Neurology, Tokyo Teishin Hospital, Japan / Department of Neurology, The University of Tokyo Hospital, Japan

O-08-10 Frequencies of genetic cerebral small vessel disease in adult-onset leukoencephalopathy

Masahiro Uemura

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

O-09 Oral Session 09

Jp

Myopathy • Neuromuscular junction disorders 1

O-09-1 Dynamics of complements and complement regulators in generalized myasthenia gravis

Yukiko Ozawa

Department of Neurology, Graduate School of Medicine, Chiba University

O-09-2 Neuromuscular complications caused by immune checkpoint inhibitors

Tomoko Noda

Department of Neurology, Ichinomiya Municipal Hospital

O-09-3 Short and long-term course before and after thymectomy in thymoma-associated myasthenia gravis

Shoko Izaki

Saitama Medical Center, Saitama Medical University, department of Neurology

O-09-4 Serum Soluble Programmed Death Ligands-1 (sPD-L1) as a Prognostic Factor in Myasthenia Gravis

Kazuo Iwasa

Department of Neurology and Neurobiology of Aging, Kanazawa University Graduate School of Medical Science

O-09-5 A 55-year-old woman with PD-1 inhibitor-related myasthenia gravis, myositis, and myocarditis

Hayato So

Tokyo Women's Medical University Hospital

**O-09-6** Clinical features of X-linked myopathy with excessive autophagy (XMEA) in Japan: A nationwide survey

Kazuma Sugie

Department of Neurology, Nara Medical University

**O-09-7** Awareness of dysphagia in adult patients with muscular dystrophy

Toshiyuki Yamamoto

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

**O-09-8** Search for diagnostic markers of 2 cases of immune checkpoint inhibitors-induced myositis

Atsushi Hara

Division of Neurology, Kobe University Graduate School of Medicine

**O-09-9** Transitional Medicine and Muscular Dystrophy

Madoka Mori-yoshimura

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

**O-09-10** syndrome with posterior cervical pain, diplopia, dizziness (vertigo) improved by fascia hydrorelease

Jun-ichi Inobe

Inobe Hospital Neurology

## O-10 Oral Session 10

En

### Cerebellar ataxia E

**O-10-1** Molecular epidemiology of spinocerebellar degeneration based on J-CAT

Yuka Hama

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

**O-10-2** Power-law and lognormal components of gait rhythm represent the quantity of ataxia in SCD patients

Ryoji Goto

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

★ **O-10-3** Endothelial cells regulates cognitive function through communication with hippocampal neurons (APe-01-3)

Feng Han

College of Pharmacy, Nanjing Medical University, China

**O-10-4** Impaired adaptive motor learning is correlated with brain gray matter atrophy in SCD: A VBM study

Kyota Bando

National center of neurology and psychiatry, Japan

O-10-5 Very early diagnosis of synucleinopathy: beyond the multidisciplinary approach

Ryuji Sakakibara

Neurology, Internal Medicine, Sakura Medical Center, Toho University, Japan

O-10-6 Clinical and Genetic study of SPG46 in Japan

Kishin Koh

Department of Neurology, University of Yamanashi, Japan

O-10-7 Clinical significance of cerebrospinal fluid 5-HIAA in multiple system atrophy

Ryunosuke Nagao

Department of Neurology, Fujita Health University School of Medicine, Japan

O-10-8 Clinical study of sporadic spinocerebellar degeneration using J-CAT

Shinji Oda

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

## O-11 Oral Session 11

Jp

### Parkinsonism and Related disorders (diagnostic imaging and therapeutics)

O-11-1 Hypoperfusion in the primary visual cortex related to decreased perfusion in the lingual gyrus in PD

Toshiki Maeda

Department of Neurology, Fujita Health University School of Medicine

O-11-2 Regions of nigrostriatal denervation are related to cardiac MIBG uptake in Parkinson's disease

Tadashi Umehara

Department of Neurology, The Jikei University School of Medicine

O-11-3 Characteristic of hypoperfusion pattern in patients with Parkinson's disease

Fumihiko Banno

Department of Neurology, Fujita Health University School of Medicine

O-11-4 Comparison of scintigraphic images between dementia with Lewy bodies and Parkinson's disease

Yuki Asahara

Department of Neurology, The Jikei University Katsushika Medical Center

O-11-5 Relationship between quantitative evaluation of DAT scan and gait analysis in Parkinson's disease

Fuyuki Tateno

Sakura Medical Center, Toho University

O-11-6 Relation between 3D fractal analysis of DAT SPECT and cognitive decline with PD/PS patients

Misa Seki

Department of Neurology, Tokyo Women's Medical University

O-11-7 Relationship between MIBG myocardial scintigraphy and clinical factors in multiple system atrophy

Ryu Yokoyama

department of neurology of saitama medical university in japan

O-11-8 Long-term efficacy and safety of levodopa-carbidopa intestinal gel treatment

Masayuki Kohsaka

Department of Neurology, National Hospital Organization Utano National Hospital /Clinical Research Center, National Hospital Organization Utano National Hospital

O-11-9 efficacy of LCIG in 23 patients with Parkinson's disease for 52 weeks

Hideki Shimura

Department of Neurology Juntendo University Urayasu Hospital

O-11-10 Effectiveness and problems of LCIG treatment for patients with Parkinson's disease in Nara

Shinichiro Inatomi

Department of Neurology, Nara Medical University

## O-12 Oral Session 12

En

### Dementia (clinical research 1) E

O-12-1 Clinical trial of the effect of vestibular stimulation on balance disorders with Alzheimer's disease

Kiyotaka Nakamagoe

Department of Neurology, Division of Clinical Medicine, Faculty of Medicine, University of Tsukuba, Japan

O-12-2 Neuronavigated transcranial magnetic stimulation for prodromal dementia with major depression

Hanna Lu

The Chinese University of Hong Kong, Hong Kong SAR, China

★ O-12-3 Presurgical motor and language mapping by navigated transcranial stimulation and functional MRI

(APe-01-2)

Xiaojing Fang

Peking University International Hospital, China

O-12-4 Clinical characteristics and CSF biomarkers in cerebral amyloid angiopathy-related inflammation

Masaki Ikeda

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

- O-12-5** Cerebrospinal fluid and plasma biomarkers in neurodegenerative diseases  
**Takeshi Kawarabayashi**  
 Department of Neurology, Geriatrics Research Institute and Hospital, Japan / Department of Neurology, Gunma University Hospital, Japan
- O-12-6** Fully automated immunoassay system to measure plasma biomarkers for Alzheimer's disease  
**Kazuto Yamashita**  
 Sysmex Corporation, Japan
- O-12-7** Graph theoretical analysis of structural brain network of Alzheimer's disease patients  
**Hiroyuki Maruoka**  
 Department of neurology and neurological science, Tokyo medical and dental university, Japan
- O-12-8** Impaired dopamine release response in the NAcc is in the center of "binge-like eating" mechanism  
**Yusuke Fujioka**  
 Department of Neurology, Nagoya University Graduate School of Medicine, Japan
- O-12-9** Positive association between cognitive function and cerebrospinal fluid orexin A levels in AD  
**Soichiro Shimizu**  
 Tokyo Medical University, Geriatric Medicine, Japan
- O-12-10** Evaluation of 20 years of CJD surveillance in Hokkaido, the northern island of Japan  
**Shinsuke Hamada**  
 Hokuyukai Neurological Hospital, Japan

**O-13 Oral Session 13**

**En**

**Neurogenetics / Gene therapy 2 E**

- O-13-1** MAO gene polymorphism associated with hostility in male population of 45-64 in Russia / Siberia  
**Dmitriy Panov**  
 Institute of Internal and Preventive Medicine - branch of Institute of Cytology and Genetics SB RAS, Russia / Collaborative laboratory of Cardiovascular Diseases Epidemiology
- O-13-2** Observational study on nusinersen±cybernic treatment with HAL<sup>®</sup> for gait function in patients with SMA  
**Takashi Nakajima**  
 Department of Neurology, National Hospital Organization Niigata National Hospital, Japan
- O-13-3** Genetic analysis of adult leukoencephalopathies  
**Hiroshi Doi**  
 Department of Neurology and Stroke Medicine, Yokohama City University School of Medicine, Japan

**O-13-4** a Novel Mutation in a New Area of TRPV4 Gene in a CMT2C Family  
**Hui Wang**  
 Peking University First Hospital, China

**O-13-5** Heteroduplex oligonucleotides technology improves therapeutic index for CNS diseases  
**Chunyan Jia**  
 Department of Neurology and Neurological Science, Tokyo Medical and Dental University, Japan

**O-13-6** withdrawn

**O-13-7** Clinical and molecular genetic studies on a Filipino Family with a Peculiar Muscle Disease  
**Kristine Joyce L. Porto**  
 Department of Molecular Neurology, The University of Tokyo, Japan / St. Luke's Medical Center, Philippines

**O-13-8** VDR Mutations Influence on Course of Parkinson disease in Patients Treated with Levodopa  
**Olaf A. Chmura**  
 Jagiellonian University Medical college, Poland

**O-13-9** A family of autosomal recessive amyotrophic lateral sclerosis with CFAP410 variant  
**Takashi Kurashige**  
 National Hospital Organization Kure Medical Center and Chugoku Cancer Center, Japan

**O-13-10** Search for new candidate genes for ALS by text-mining and exome analysis of autopsy cases  
**Yuya Hatano**  
 Department of Neurology, Brain Research Institute, Niigata University, Japan

## O-14 Oral Session 14

**Jp**

### Motor Neuron Disease 2

**O-14-1** Motor cortical function measured by threshold tracking TMS in amyotrophic lateral sclerosis  
**Kazumoto Shibuya**  
 Department of Neurology Graduate School of Medicine Chiba University

**O-14-2** Effect of decrement motor response by RNS and APB/ADM ratio by NCS in ALS diagnosis  
**Takamichi Sugimoto**  
 Department of Neurology, Hiroshima City Hiroshima Citizens Hospital

**O-14-3** Nutrition therapy for ALS patients: Effectiveness of a new prediction formula for energy consumption  
**Kota Bokuda**  
 Nutrition Support Team, Tokyo Metropolitan Neurological Hospital / Department of Neurology, Tokyo Metropolitan Neurological Hospital

- O-14-4 Is the enlarged N20-P25 of the median nerve SEP in ALS pathognomonic to ALS?  
Toshio Shimizu  
Tokyo Metropolitan Neurological Hospital
- O-14-5 Analysis of Three Cases Clinically Suspected of Globular Glial Tauopathy  
Haruhiko Motegi  
The Jikei University School of Medicine, Department of Neurology
- O-14-6 SPECT in patients with amyotrophic lateral sclerosis  
Ayumu Katsuki  
University of Fukui Hospital Neurology
- O-14-7 Staging of phosphorylated TDP-43 pathology and clinical findings in amyotrophic lateral sclerosis  
Chiho Ishida  
Department of Neurology, National Hospital Organization Iou National Hospital
- O-14-8 Detecting spinal pyramidal tract of ALS patients with diffusion tensor tractography  
Yusuke Fukui  
Department of Neurology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences / National Hospital Organizations Shikoku Medical Center for Children and Adults
- O-14-9 Assessment of the motor cortex using MRI SWI in patients with amyotrophic lateral sclerosis  
Masaaki Yasui  
Department of Neurology, Wakayama Medical University
- O-14-10 Palliative and terminal care for ALS at hospital : retrospective case series  
Masaaki Kato  
Department of Neurology, Shodo-kai Southern Tohoku General Hospital

**O-15 Oral Session 15**

**Jp**

**Cerebrovascular disease (clinical research 2)**

- O-15-1 Carotid plaque characterization and biomarkers with intracranial atherosclerotic disease  
Naoki Iijima  
Department of Neurology, St.Marianna University
- O-15-2 Left atrial appendage flow velocity and cryptogenic stroke in acute ischemic stroke patients  
Keisuke Tokunaga  
Department of Cerebrovascular Medicine and Neurology, Kyushu Medical Center

- O-15-3** New method for the assessment of atrial function using magnetocardiography in ESUS patients  
Hajime Ikenouchi  
National Cerebral and Cardiovascular Center, Neurology
- O-15-4** Analysis of cryptogenic stroke with patent foramen ovale  
Hidetaka Mitsumura  
Department of Neurology, The Jikei University School of Medicine
- O-15-5** The distribution of DWI in striatocapsular infarction considering the lenticulostriate artery course  
Yasumasa Yamamoto  
Kyoto Katsura Hospital
- O-15-6** Results of interim analysis using insertable cardiac monitors in cryptogenic stroke  
Ryosuke Dojiri  
Department of Neurology, Iwate Prefectural Central Hospital, Morioka, Iwate, Japan
- O-15-7** Development of logic that considers AI image analysis for treatment selection of cerebral infarction  
Soichiro Shibata  
Department of Neurology, St. Marianna University School of Medicine
- O-15-8** Factors Associated With Remote DWI Lesions in Hypertensive intracerebral hemorrhages  
Sho Okune  
Department of Stroke, University of Tsukuba Hospital / Department of Neurology, Division of Clinical Medicine, Faculty of Medicine, University of Tsukuba
- O-15-9** 2nd nationwide questionnaire survey on details of neuroimaging for acute ischemic stroke in Japan  
Masatoshi Koga  
Department of Cerebrovascular Medicine, National Cerebral and Cardiovascular Center
- O-15-10** MRI characteristic of seventy nine consecutive patient with transient global amnesia  
Kunihisa Kato  
Department of Neurology, Fujita Health University School of Medicine

**O-16 Oral Session 16****Jp****Neuroimmunology 2**

- O-16-1** Astrocyte imaging in Neuromyelitis Optica by acetate PET  
Toru Koda  
Department of Neurology, Osaka University Graduate School of Medicine
- O-16-2** Patterns of brain volume loss in multiple sclerosis  
Juichi Fujimori  
Department of Neurology, Tohoku Medical and Pharmaceutical University

- O-16-3** Developing standard data of cognitive function by Processing Speed Test in Japanese healthy subjects  
Masaaki Niino  
Department of Clinical Research, National Hospital Organization Hokkaido Medical Center
- O-16-4** IL-6 plus BAFF, GFAP in CSF is helpful for diagnosis and evaluation of disease activity of NMOSD  
Takao Kiriyama  
Department of Neurology, Nara Medical University
- O-16-5** Cognitive evaluation using the Processing Speed Test in patients with multiple sclerosis  
Yusei Miyazaki  
Department of Neurology, National Hospital Organization Hokkaido Medical Center
- O-16-6** serum and CSF High-mobility group box 1 protein in anti MOG antibody positive neurological disorders  
Satoru Tanaka  
Saitama Medical Center, Saitama Medical University
- O-16-7** Assessment of processing speed in multiple sclerosis and neuromyelitis optica spectrum disorder  
Kazushi Deguchi  
Kagawa University Hospital, Department of Neurology
- O-16-8** Significance of B cell phenotypic analysis for differentiating NMOSD from other similar diseases  
Ritsu Akatani  
Division of Neurology, Kobe University Graduate School of Medicine
- O-16-9** The consistent increase of multiple sclerosis and neuromyelitis optica in Japan  
Noriko Isobe  
Department of Neurology, Kyushu University / Department of Neurological Therapeutics, Kyushu University
- O-16-10** Spondylosis deformans are associated with multiple sclerosis lesions in spinal cord  
Shusuke Koto  
Department of Neurology, Kita-Harima Medical Center / Division of Neurology, Kobe University Graduate School of Medicine

**O-17 Oral Session 17**

**Jp**

**Care for intractable diseases, regional cooperation and others**

- O-17-1** Clinical profile of patients with cerebral palsy in transition from pediatric to adult health care  
Miho Osako  
Department of Neurology, Tokyo Metropolitan Kita Medical and Rehabilitation Center for the Disabled

- O-17-2** Current status of medical collaborations for neurodegenerative diseases in Secondary medical zone  
Yu Kono  
Department of Neurology, Fuji city general hospital
- O-17-3** Development and issues of "Arao One Team Notebook" including stroke and intractable diseases  
Toshinori Oshima  
Department of Neurology, Arao Munisipal Hospital
- O-17-4** Autopsy series from home-cared patients to improve our clinical practice, education and research  
Toshiki Uchihara  
Neuromorphomics Laboratory, Nitobe-Memorial Nakano General Hospital / Neurology, Nitobe-Memorial Nakano General Hospital
- O-17-5** RNA-Seq analysis of Parkinson's disease focusing on the responsiveness of zonisamide  
Tatsuhiko Naito  
Department of Neurology, Graduate School of Medicine, The University of Tokyo
- O-17-6** Cerebellar ataxia with neuropathy and vestibular areflexia syndrome: a clinical and genetic study  
Mai Tsuchiya  
Department of Neurology, University of Yamanashi
- O-17-7** Screening for NOTCH3 mutations among patients with lacunar infarctions  
Takashi Okada  
Department of Neurology, National Cerebral and Cardiovascular Center
- O-17-8** A case of vasculopathy by autopsy, mental retardation, thrombocytosis, cardiac infarctions and strokes  
Tetsuhiko Ikeda  
Department of Neurology, Brain Research Institute, Niigata University / National Hospital Organization Niigata National Hospital

## O-18 Oral Session 18

JP

### Peripheral Neuropathy 2

- O-18-1** Evaluation of sural nerve activity using a magnetoneurography  
Yuki Mitani  
Healthcare Business Group, RICOH Company, Ltd.
- O-18-2** Neurological manifestations in amyloidosis patients  
Taro Yamashita  
Department of Neurology, Kumamoto University Hospital / Amyloidosis Medical Practice Center, Kumamoto University Hospital / Project for Neurological Intractable Disease, Kumamoto University Hospital

- O-18-3** Visualization of nerve activity around the cubital tunnel using magnetoneurography  
**Taishi Watanabe**  
 Department of Orthopedic Surgery, Tokyo Medical and Dental University / Healthcare Business Group, RICOH COMPANY, Ltd.
- O-18-4** Postmedian sternotomy plexopathy may affect T1 anterior ramus  
**Chizuko Oishi**  
 Department of Neurology, Kyorin University School of Medicine / Department of Neurology, Teikyo University School of Medicine
- O-18-5** Longterm prognosis of Sjogren's syndrome related neuropathy and clinical features of a subtype  
**Kana Tamaki**  
 Tokyo medical and dental university, Department of neurology
- O-18-6** Clinical features of sensory neuropathy induced by immune checkpoint inhibitors  
**Kenji Maruyama**  
 Department of Neurology, Toda Central General Hospital / Department of Neurology, Tokyo Women's Medical University Hospital
- O-18-7** Comparative clinical and neurophysiological study of peripheral neuropathy caused by NSVN and EGPA  
**Shunsuke Watanabe**  
 Division of Neurology, Kobe University School of Medicine
- O-18-8** Complement activation in systemic lupus erythematosus and rheumatoid arthritis with neuropathy  
**Yuki Fukami**  
 Department of Neurology, Nagoya University
- O-18-9** Examination of neuropathy in patients with type 2 diabetes by nerve conduction studies  
**Takuya Iizumi**  
 Division of Neurology, Ogikubo Hospital
- O-18-10** Clinical and genetic study of a Japanese family with CMT2A2A associated with congenital cataracts  
**Takanori Hata**  
 Department of Neurology, University of Yamanashi

**O-19 Oral Session 19**

**En**

**Parkinsonism and Related disorders (basic research) E**

**O-19-1** withdrawn

**O-19-2** withdrawn

- O-19-3** Fatty acid-binding protein 3 is critical for alpha-synuclein uptake in cultured dopamine neurons  
Kohji Fukunaga  
Tohoku University Graduate School of Pharmaceutical Sciences, Japan
- O-19-4** Serum zinc, vitamin B1 and folate decrease in Parkinson's disease with sleep attack  
Shuro Kogawa  
Kohka public hospital, Department of Neurology, Japan
- O-19-5** withdrawn
- O-19-6** Novel Drosophila model for Parkinson's disease by targeting phosphoglycerate kinase  
Takashi Kasai  
Department of Neurology, Kyoto Prefectural University of Medicine, Japan
- O-19-7** ATP13A2/PARK9 protects brains from a-synuclein propagation  
Taiji Tsunemi  
Department of Neurology, Juntendo University School of Medicine, Japan
- O-19-8** Intranigral inoculation of mutant alpha-synuclein fibrils induces Lewy-like pathology in mice  
Kousuke Baba  
Department of Neurology, Osaka University Graduate School of Medicine, Japan
- O-19-9** Loss of CHCHD2 affects mitochondrial structure and dopaminergic neuronal loss in aged mice  
Shigeto Sato  
Department of Neurology, Juntendo University Graduate School of Medicine, Japan

**O-20 Oral Session 20****En****Myopathy • Neuromuscular junction disorders 2 E**

- O-20-1** Phenotypic skew of circulating follicular helper T cells in Double Seronegative Myasthenia gravis  
Shinji Ashida  
Department of Neurology, Kyoto Prefectural University of Medicine, Japan
- O-20-2** Suitable indications of eculizumab for patients with refractory generalized myasthenia gravis  
Munenori Oyama  
Department of Neurology, Keio University School of Medicine, Japan
- O-20-3** The Clinical Features of Myasthenia Gravis in Japan from the National Epidemiological Survey 2018  
Hiroaki Yoshikawa  
Kanazawa University, Health Service Center, Japan

O-20-4 Diagnosis of LEMS and MG overlap or borderline cases

Yuki Hatanaka

Department of Neurology, Teikyo Medical University Hospital, Japan

O-20-5 withdrawn

O-20-6 withdrawn

O-20-7 Unique pathomechanisms of nuclear envelope myopathy

Yukiko Hayashi

Department of Pathophysiology, Tokyo Medical University, Japan

O-20-8 Cricopharyngeal bar in inclusion body myositis: A red flag

Kenichiro Taira

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

O-20-9 Clinical features of inclusion body myositis associated with Sjögren's syndrome

Satoshi Yamashita

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

O-20-10 Relationship between verbal IQ and gene mutation in patients with Duchenne muscular dystrophy

Hajime Arahata

National Hospital Organization Omuta National Hospital, Japan

O-21 Oral Session 21

En

Cerebrovascular disease (clinical research 3) E

O-21-1 A novel vaccine against S100A9 prevented thrombus formation in cynomolgus monkey

Munehisa Shimamura

Department of Neurology, Osaka University Graduate School of Medicine, Japan / Department of Health Development and Medicine, Osaka University Graduate School of Medicine, Japan

★ O-21-2 Wnt signaling is associated with hemorrhagic transformation after intravenous thrombolysis (APe-01-6)

Junlei Chang

Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China

O-21-3 CRP: strong exacerbation predictor in acute ICA/MIO patients who underwent recanalization

Junichi Uemura

Department of Stroke Medicine, Kawasaki Medical School General Medical Center, Japan / Department of Stroke Medicine, Kawasaki Medical School, Japan

O-21-4 Stroke incidence in super elderly patients taking direct oral anticoagulants

Taizen Nakase

Stroke Comprehensive Medical Center, Akita University Hospital, Japan

- O-21-5** Observation of maladaptive behaviors in a stroke patient with Vineland II Adaptive Behavior Scales  
Masanori Nagaoka  
Dept of Internal Medicine, Meirinkai Nikko-Noguchi Hospital, Japan
- O-21-6** Association of unknown atrial fibrillation and stroke severity and outcome  
Kenichi Todo  
Department of Neurology, Osaka University Hospital, Japan
- O-21-7** CYP2C19 and PON1 polymorphisms alter on-clopidogrel platelet reactivity in neurointervention  
Koji Tanaka  
Department of Neurology, Neurological Institutes, Graduate School of Medical Sciences, Kyushu University, Japan
- O-21-8** PCA laterality predicts better functional outcomes after MCA occlusion treated with thrombectomy  
Masahiko Ichijo  
Department of Neurology, Musashino Red Cross Hospital, Japan
- O-21-9** NBP reduces cerebral ischemic injury by maintaining mitochondrial function of endothelial cells  
Jingjing Jia  
Peking University First Hospital, China
- O-21-10** Involvement of Mucosal-associated invariant T cells for neuroinflammation in acute ischemic stroke  
Sho Nakajima  
Department of Neurology, Juntendo University School of Medicine, Japan

**O-22 Oral Session 22****Jp****Dementia (biomarker)**

- O-22-1** Relations among symptoms, and involvements of white matter and default mode network in iNPH  
Shigenori Kanno  
Department of Behavioral Neurology and Cognitive Neuroscience, Tohoku University Graduate School of Medicine / Department of Neurology, South Miyagi Medical Center
- O-22-2** Relationship between microbleeds/white matter lesions and new blood biomarker MR-pro ADM on brain MR  
Nagato Kuriyama  
Departments of Epidemiology for Community Health and Medicine, Kyoto Prefectural University of Medicine, Kyoto, Japan
- O-22-3** Relationship between CAA and levels of plasma homocysteine in Alzheimer's disease  
Kazutomi Kanemaru  
Department of Neurology, Tokyo Metropolitan Geriatric Hospital

O-22-4 Image findings of PSP existing at the base of iNPH: FP-CIT SPECT  
Satoru Mori

Matsushita Memorial Hospital, Dept. of Neurology / Aino Hospital, Dept. of Neurology

O-22-5 Relationship between global/local cognition and presentation duration  
Keisuke Morihara

Department of Neurology and Stroke medicine, Yokohama City University

O-22-6 on pseudologic of social exchange and precaution rule in Wason  
selection task

Mitsuaki Bandoh

Tokyo Metropolitan Neurological Hospital

O-22-7 Reconsideration of clinical diagnosis of Alzheimer's disease based on  
biomarkers and APOE genotype

Kensaku Kasuga

Department of Molecular Genetics, Brain Research Institute, Niigata University

O-22-8 Lactate levels in anterior cingulate gyrus of PSP patients reflect  
frontal dysfunction

Yuhei Takado

Department of Functional Brain Imaging Research, National Institutes for Quantum and  
Radiological Science and Technology

O-22-9 A significance of Kanji ability in mild Alzheimer's disease patients  
confirmed by CSF biomarker

Akira Kuzuya

Department of Neurology, Kyoto University Graduate School of Medicine

## O-23 Oral Session 23

Jp

### Parkinsonism and Related disorders (clinical research 2)

O-23-1 Quantitatively assessment motor symptoms in Parkinson's disease  
using electrophysiological technique

Yuichi Nishikawa

Division of Rehabilitation, Department of Clinical Practice and Support, Hiroshima University  
Hospital

O-23-2 Coincidence rates and SPECT findings in Parkinson's disease with  
Alzheimer's disease

Akihiko Ogata

Department of Neurology, Hokkaido Neurosurgical Memorial Hospital

O-23-3 Clinical features of Parkinson's disease that indicate co-existence of  
Alzheimer's disease

Hiroto Kodera

Department of Neurology, Nippon Medical School Hospital

O-23-4 Internal clock in parkinsonism -is it slow or fast and does it correlate with the clinical stage?-

Yasuo Terao

Department of Medical Physiology, Kyorin University

O-23-5 Transfer of motor and perceptual learning in Parkinson's disease

Naohisa Ueda

Department of Neurology, Yokohama City University Medical Center

O-23-6 Biomarker-based analysis of preclinical progression in Parkinson disease

Katsunori Yokoi

Nagoya university graduate school of medicine department of neurology

O-23-7 Blood Neurofilament light chain as a diagnostic biomarker for Parkinson's disease: a meta-analysis

Shotaro Haji

Department of Clinical Neuroscience, Institute of Biomedical Sciences, Tokushima University Graduate School

O-23-8 withdrawn

O-23-9 Changes of plantar pressure during standing and walking before and after STN-DBS in PD patients

Nana Izawa

Department of Rehabilitation Medicine, Juntendo University School of Medicine / Department of Neurology, Juntendo University School of Medicine

## O-24 Oral Session 24

En

### Neuroscience 1 E

O-24-1 Variants in saposin D domain of prosaposin gene linked to Parkinson's disease

Yutaka Oji

Department of Neurology, Juntendo University School of Medicine, Japan

O-24-2 Aberrant cytoplasmic aggregation of TDP-43 is prevented by interaction with G3BP1 and USP10

Masahiro Fujii

Division of Virology, Niigata Graduate School of Medical and Dental Sciences, Japan

O-24-3 Praja 1 E3 ubiquitin ligase suppresses adenovirus-induced neuronal TDP-43 aggregate formation

Kazuhiko Watabe

Department of Medical Technology (Neuropathology), Faculty of Health Sciences, Kyorin University, Japan / Department of Pathology, Division of Pathological Neuroscience, Tokyo Woman's Medical University, Japan

- O-24-4** Exploring lipophilic compounds which induce BDNF secretion from astrocytes beyond the BBB  
**Yukio Takeshita**  
 Department of Neurology and Clinical Neuroscience, Yamaguchi University Graduate School of Medicine, Japan
- O-24-5** Caveolin 3 suppresses activation of sarcolemmal nNOS: implications in the pathogenesis of LGMD1C  
**Yutaka Ohsawa**  
 Neurology, Kawasaki Medical School, Japan
- O-24-6** C9orf72-derived PR poly-dipeptides compromise phase separation of low-complexity protein sequences  
**Eiichiro Mori**  
 Department of Future Basic Medicine, Nara Medical University, Japan
- O-24-7** Changes of striatal serotonin transporter expressions in a rat model of levodopa-induced dyskinesia  
**Rie Tohge**  
 Department of Neurology, Kansai medical university, Japan
- O-24-8** MicroRNA-30e-5p is a potential biomarker for Parkinson's disease by targeting NLRP3 gene  
**Weidong Le**  
 The First Affiliated Hospital, Dalian Medical University, China
- O-24-9** Neurodegeneration of TTR E61K amyloid neuropathy  
**Tatsufumi Murakami**  
 Department of Neurology, Kawasaki Medical School, Japan

**O-25 Oral Session 25**

**En**

**Parkinsonism and Related disorders (clinical research 3) E**

- O-25-1** Preoperative impulsivity leads to better QOL after deep brain stimulation in Parkinson's disease  
**Tatsuya Yamamoto**  
 Department of Rehabilitation, Chiba Prefectural University of Health Sciences, Japan /  
 Department of Neurology, Graduate School of Medicine, Chiba University, Japan
- O-25-2** A yearly effect of zonisamide on neuroinflammation and dopamine terminals in early PD: a PET study  
**Yasuomi Ouchi**  
 Dept of Biofunctional Imaging, Hamamatsu University School of Medicine, Japan
- O-25-3** Pharmacological remodeling of glycolytic energy homeostasis in Parkinson's disease  
**Naomi Kanzato**  
 Okilanawa Prefectural Southern Medical Center & Children's Medical Center, Japan

- O-25-4** Long-term outcome of STN-DBS patients changed from a conventional to independent current control IPG  
Katsuo Kimura  
Department of Neurology, Yokohama City University Medical Center, Japan
- O-25-5** Characteristics of amnesic cognitive impairment in Parkinson disease  
Ikko Wada  
Department of Neurology, Kyoto University, Japan
- O-25-6** Relationship between gait and cognition in Parkinson's disease  
Akira Nishida  
Department of Neurology, Kyoto University Graduate School of Medicine, Japan
- O-25-7** Cerebrospinal fluid proteomic profiling of PSP: Chromogranin B as a diagnostic potential biomarker  
Hiroshi Takigawa  
Division of Neurology, Department of Brain and Neurosciences, Faculty of Medicine, Tottori University, Japan
- O-25-8** High-levodopa plasma concentration predicts levodopa induced dyskinesia in Parkinson's disease  
Tomotaka Shiraishi  
Department of Neurology, National Center of Neurology and Psychiatry, Japan
- O-25-9** Meta-analysis of the relationship between obstructive sleep apnea and Parkinson's disease  
Aping Sun  
Peking University Third Hospital, China
- O-25-10** Profile & Quality of Life of Filipino Patients with Focal Dystonia treated with Botulinum toxin A  
Meleza Mea B. Cambalon  
Perpetual Succour Hospital, Philippines

**O-26 Oral Session 26****Jp****Neuroinfection**

- O-26-1** Clinical features of 60 cases of E200K genetic CJD  
Hitaru Kishida  
Department of Neurology, Yokohama City University Medical Center
- O-26-2** Results and clinical features of cerebrospinal herpes real time PCR for aseptic meningitis  
Koichi Kikuchi  
Department of Neurology, Fujita health university School of medicine
- O-26-3** Progressive multifocal leukoencephalopathy in transplant patients: Case report and literature review  
Nao Negishi  
Department of Neurology Tokyo Women's Medical University Hospital

- O-26-4** Effectiveness of vidarabine for acyclovir-resistant herpes simplex encephalitis  
**Hironori Shimizu**  
 Nara Medical University Department of Neurology
- O-26-5** Patients with bacterial meningitis combined with infection of other organs at first examination  
**Misaki Hanya**  
 Department of Neurology and Stroke Treatment, Kyoto First Red Cross Hospital
- O-26-6** Clinical investigation of recurrent autoimmune encephalitis  
**Saki Hayashi**  
 Department of Neurology, Uji Hospital
- O-26-7** Clinical features of Cryptococcal meningitis  
**Masateru Tajiri**  
 Department of Neurology and Rheumatology, Shinshu University School of Medicine
- O-26-8** Atypical clinical presentation of aseptic meningitis  
**Akiyuki Hiraga**  
 Department of Neurology, Chiba Rosai Hospital
- O-26-9** Analysis of 24 Japanese Gerstmann-Sträussler-Scheinker Disease  
**Kohei Suzuyama**  
 Division of Neurology, Department of Internal Medicine, Faculty of medicine Saga university
- O-26-10** Three adult cases of Acute necrotizing encephalopathy with carnitine palmitoyltransferase 2 variant  
**Satoshi Nakao**  
 Department of Medicine (Neurology and Rheumatology), Shinshu University School of Medicine

**O-27 Oral Session 27**

**En**

**Neuropathology E**

- O-27-1** Microglial pathology in FTLN-TDP43 Type A and Alzheimer disease  
**Nobutaka Sakae**  
 Department of Neurology, National hospital organization, Omuta national hospital, Japan /  
 Department of Neuroscience, Mayo Clinic Jacksonville, FL, USA
- O-27-2** Contribution of endogenous neural stem/progenitor cells to astrocyte regeneration in NMOSD  
**Yoshiki Takai**  
 Department of Neurology, Tohoku University Graduate School of Medicine, Japan
- O-27-3** Possible role of T-bet and aryl hydrocarbon receptor on lymphocytes in neuromyelitis optica lesions  
**Fumihiro Yanagimura**  
 Department of Neurology, Brain Research Institute, Niigata University, Niigata, Japan /  
 Department of Neurology, NHO Niigata Hospital, Kashiwazaki, Japan

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**O-27-4**    The first patient with pathologically-definite ATXN8OS-associated amyotrophic lateral sclerosis

**Makito Hirano**

Department of Neurology, Kindai University Faculty of Medicine, Japan

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**O-27-5**    Phosphorylation of SRRM2 leads to synaptic pathology at ultra-early phase of Alzheimer's disease

**Hikari Tanaka**

Department of Neuropathology, Medical Research Institute, Tokyo Medical and Dental University, Japan

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**O-27-6**    A PET study of primary age-related tauopathy in healthy volunteers

**Hitoshi Shinotoh**

National Institute of Radiological Sciences, National Institutes for Quantum and Radiological Sciences and Technologies, Japan / Neurology Clinic Chiba, Japan

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**O-27-7**    Ultrastructure of macrophage-induced demyelination in Guillain-Barré syndrome

**Haruki Koike**

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

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**O-27-8**    Clinicopathological features of EGPA from the view point of IL-5 and ANCA

**Ryoji Nishi**

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

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**O-27-9**    Brain pathological study in tumefactive MOG antibody-associated disease: the role of B cells

**Ryotaro Ikeguchi**

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

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**O-27-10**    Clinical features in pathologically confirmed CBD and PSP presenting CBS

**Ikuko Aiba**

Department of Neurology, National Hospital Organization Higashinagoya National Hospital, Japan

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## **O-28 Oral Session 28**

**Jp**

### **Clinical Neurophysiology 2**

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**O-28-1**    Motor cortical metaplasticity induced by quadripulse stimulation over the primary motor motor area

**Naohiko Togashi**

Department of Neurology, National Hospital Organization Sagamihara Hospital

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**O-28-2**    The utility of ultrasonography in the diagnosis of CIDP

**Yukari Sekiguchi**

JR Tokyo General hospital

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- O-28-3** Incidence of cranio-cervical involuntary movements and their botulinum toxin therapy effects  
Mikio Osawa  
Botulinum Toxin Therapy Center for Neurology, Tokyo Clinic
- O-28-4** Three patients with epiconus lesions for whom N17 potentials in tibial nerve SEPs were useful  
Fumie Konoeda  
Department of Neurology, Saitama City Hospital / Department of Neurology, Teikyo University
- O-28-5** Three cases of astasia without thalamic lesion  
Hiromasa Tsuda  
Department of Neurology, Tokyo Metropolitan Health and Medical Corporation Toshima Hospital
- O-28-6** Study on sleep disorders as the basis of cognitive impairment in Parkinson's disease  
Masanobu Miyashita  
Department Neurology National Hospital Organization Sagamihara National Hospital
- O-28-7** Pathophysiology of neuropathy in POEMS syndrome  
Hiroki Kano  
Chiba University Hospital, Neurology
- O-28-8** A Comparison Study between Electrophysiological Diagnosis AND Muscle Pathological Finding  
Kenichi Yabuuchi  
Neurology, faculty of medicine, Oita University
- O-28-9** Age-related changes of brain network in resting-state magnetoencephalography in Healthy Adults  
Toshiyasu Kato  
Department of Neurology, Nagoya University Graduate School of Medicine
- O-28-10** Application of nerve ultrasound for early diagnosis of ALS "From observation of brachial plexus"  
Hiroki Yamazaki  
Department of neurology, Tokushima University Hospital

**O-29 Oral Session 29**

**En**

**Neuroimmunology 3 E**

- O-29-1** Status epilepticus suspected autoimmune: antibody frequency and its main clinical features  
Hiroki Suga  
Department of Neurology, Kitasato University School of Medicine, Japan

- 
- O-29-2** Cytokine profiles in cerebrospinal fluid from patients with neurosarcoidosis and CNS lymphoma  
**Hiroshi Kuroda**  
Department of Neurology, Tohoku University Graduate School of Medicine, Japan / Department of Neurology, South Miyagi Medical Center, Japan
- 
- O-29-3** Role of serum IL-6 in neuropsychiatric systemic lupus erythematosus  
**Shinsei Hirohata**  
Nobuhira Hospital & Institute of Biomechanics, Japan / Teikyo University School of medicine, Japan
- 
- O-29-4** Common Features Are Shared by Clinically Heterogeneous Patients with MOG Antibody-related Disorder  
**Toshi Sai**  
Department of Neurology Treatment, Kyoto prefecture university of medicine, Japan
- 
- O-29-5** Effects of sera in NMO and MOG on IgG translocation to central nervous system  
**Miwako Fujisawa**  
Department of Neurology and Clinical Neuroscience, Yamaguchi University Graduate School of Medicine, Japan
- 
- O-29-6** Anti-ganglionic acetylcholine receptor antibody in irritable bowel syndrome and functional dyspepsia  
**Akihiro Mukaino**  
Department of Molecular Neurology and Therapeutics, Kumamoto University Hospital, Japan / Department of Neurology, Kumamoto University, Japan
- 
- O-29-7** Probenecid suppresses dural inflammation and fibrosis in mice model of hypertrophic pachymeningitis  
**Ulfa C. Indiasari**  
Department of Neurology, Kyushu University, Japan
- 
- O-29-8** Pooled safety analysis from Phase 3 trials of satralizumab in neuromyelitis optica spectrum disorder  
**Kazuo Fujihara**  
Multiple Sclerosis and Neuromyelitis Optica Center, Southern Tohoku Research Institute for Neuroscience, Japan
- 
- O-29-9** Retrieval of therapeutic target molecules for HAM by microarray analysis of HTLV-1-infected cells  
**Ryuji Kubota**  
Joint Research Center for Human Retrovirus Infection, Kagoshima University, Japan
- 
- O-29-10** Gene expression profile of multiple system atrophy/primary progressive multiple sclerosis mice model  
**Hiroo Yamaguchi**  
Department of Neurology, Neurological Institute, Graduate School of Medical Sciences, Kyushu University, Japan

## Headache and Sleep disorder

- O-30-1** A survey of clinical symptoms with chronic cluster headache in a Japanese regional headache center  
Shoji Kikui  
Department of Neurology, Tominaga hospital
- O-30-2** Effectiveness of the Kampo medicine Yokukansan for patients with migraine  
Hisanao Akiyama  
Department of Neurology, St. Marianna University School of Medicine
- O-30-3** Clinical features of migraine patients in our headache clinic (including HIT-6)  
Tsubasa Takizawa  
Department of Neurology, Keio University School of Medicine
- O-30-4** Clinical characteristics of migraine aura without headache  
Takemori Yamawaki  
Hiroshima City Hiroshima Citizens Hospital
- O-30-5** Cognitive function and outcome in patients with idiopathic REM sleep behavior disorder  
Masayuki Miyamoto  
Department of Clinical Medicine for Nursing Dokkyo Medical University School of Nursing /  
Department of Neurology Dokkyo Medical University Hospital
- O-30-6** Evaluation of the social burden of migraine patients in Japan: Analysis of a population-based survey  
Hisaka Igarashi  
Headache Care Unit, Department of Internal Medicine, Fujitsu Clinic
- O-30-7** The usefulness of RI cisternography with SPECT/CT on diagnostic imaging of CSF hypovolemia  
Takashi Mitsufuji  
Department of neurology, Saitama medical school
- O-30-8** The relationship between cranial autonomic symptoms and central sensitization in migraine patients  
Daisuke Danno  
Headache center, Department of Neurology, Tominaga hospital
- O-30-9** Abdominal pain attacks in migraine patients persist after middle age  
Ryosuke Fukazawa  
Department of Neurology, Saiseikai Shiga Hospital
- O-30-10** Study of risk factors for headache after the Great East Japan Earthquake during 2012-2018  
Yasuhiro Ishibashi  
Neurology, Kitakami Saiseikai hospital

## Clinical trial and Regenerative medicine 1 E

- O-31-1** Long-term Safety and Efficacy of Patisiran in the Global Open-label Extension Study: 24-Month Data  
Mitsuharu Ueda  
Department of Neurology, Kumamoto University Hospital, Japan
- O-31-2** Japan-Plasmapheresis Outcome and Practice Patterns Study for Neurological diseases: real world survey  
Youwei Lin  
Dep.Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Japan
- O-31-3** Higher risk for recurrent stroke in NVAF-related ischemic stroke patients with prior anticoagulation  
Kanta Tanaka  
National Cerebral and Cardiovascular Center, Japan / Keio University, Japan
- O-31-4** Satralizumab monotherapy for relapse prevention in neuromyelitis optica spectrum disorder  
Anthony Traboulsee  
University of British Columbia, Canada
- O-31-5** Benefit of eculizumab for a broad range of patients with NMOSD: findings from the PREVENT study  
Ichiro Nakashima  
Tohoku Medical and Pharmaceutical University, Japan
- O-31-6** A phase I clinical trial of intrathecal injection of recombinant human HGF in subjects with ALS  
Hitoshi Warita  
Department of Neurology, Tohoku University Hospital, Japan
- O-31-7** ROPALS trial based on the iPSC drug repositioning for ALS: baseline profiles of trial participants  
Shinichi Takahashi  
Department of Neurology and Stroke, Saitama Medical University International Medical Center, Japan / Department of Physiology, Keio University School of Medicine, Japan
- O-31-8** Efficacy and safety of ofatumumab versus teriflunomide in relapsing multiple sclerosis  
Krishnan Ramanathan  
Novartis Pharma AG, Switzerland
- O-31-9** Pooled analysis from the SAKura trials with satralizumab in neuromyelitis optica spectrum disorder  
Jerome De Seze  
Hôpital de Hautepierre, France

## Cerebrovascular disease (clinical research 4)

- O-32-1** Small vessel burden and cognitive decline in minor ischemic stroke or TIA cohort : HAGAKURE study  
Yuki Hoshino  
Division of Neurology, Department of Internal Medicine, Saga University Faculty of Medicine
- O-32-2** Association between JAK2 gene mutation and cerebrovascular disease in myeloproliferative neoplasms  
Naoki Oyama  
Department of Stroke Medicine, Kawasaki Medical School
- O-32-3** withdrawn
- O-32-4** Efficacy and safety of Heparin Calcium to prevent recurrence of stroke with cancer  
Takeshi Iwanaga  
Department of Stroke Medicine, Okayama red cross hospital / Department of Stroke Medicine, Kawasaki Medical School
- O-32-5** Urinary Immunoglobulin G is Associated with Brain Microbleeds in Acute Ischemic Stroke Patients  
Teppei Komatsu  
the Jikei University School of Medicine, department of Neurology
- O-32-6** Characteristics of cerebral microbleeds in patients with acute intracerebral hemorrhage  
Kazuo Yamashiro  
Department of Neurology, Juntendo University School of Medicine
- O-32-7** Periodontitis and cerebral small vessel disease in acute stroke patients  
Kenichiro Sakai  
The JIKEI University School of Medicine, Department of Neurology
- O-32-8** Clinical characteristics, anticoagulation, and prognosis of cancer-associated ischemic stroke  
Tenyu Hino  
Department of Stroke, University of Tsukuba Hospital
- O-32-9** Modified scoring systems using new parameters based on the STAF in patients with ischemic stroke  
Shohei Imanaka  
Kitano hospital, Tazuke Kofukai medical research institute
- O-32-10** Clinical features of 14 cerebral infarction patients with Trousseau syndrome in our hospital  
Hiroto Suehiro  
Division of Neurology, Kobe University Graduate School of Medicine

## Neuroimaging • Clinical trial etc

- O-33-1** DPAA exposure may promote brain aging  
Kazuhiro Ishii  
Department of Neurology, University of Tsukuba Hospital
- O-33-2** Usefulness of DaT-SPECT in discrimination of idiopathic normal pressure hydrocephalus (iNPH)  
Nobutoshi Morimoto  
Department of Neurology, Kagawa Prefectural Central Hospital
- O-33-3** Comparative Studies between Therapeutic Experiment using Wobbler Mouse and RCT in ALS patients  
Ken Ikeda  
Department of Neurology, Toho University Omori Medical Center
- O-33-4** FIREFISH Part 2: Efficacy and safety of risdiplam in infants with Type 1 spinal muscular atrophy  
Yasuhiro Takeshima  
Department of Pediatrics, Hyogo College of Medicine
- O-33-5** Possibility of Regenerative Associate Cells as the novel therapy of acute cerebral infarction  
Shizuka Netsu  
Tokai University School of Medicine Oiso Hospital, Neurology Department
- O-33-6** SUNFISH Part 2: Efficacy and safety of risdiplam in patients with Type 2 or non-ambulant Type 3 SMA  
Kayoko Saito  
Institute of Medical Genetics, Tokyo Women's Medical University
- O-33-7** Time savings effect of acute stroke team and system-modification for mechanical thrombectomy  
Hidekazu Yamazaki  
Department of Neurology and Cerebrovascular treatment, Yokohama Shintoshi Neurosurgical hospital, Yokohama, Japan
- O-33-8** A Phase 2 Study of Galcanezumab in Japanese Patients with Episodic Migraine  
Atsushi Kuga  
Eli Lilly Japan K.K., Kobe, Japan
- O-33-9** Possibility of image interpretation by AI in cerebral infarction  
Kenzo Sakurai  
Department of Neurology, Kawasaki Municipal Tama Hospital
- O-33-10** Self-assemble polydopamine nanoparticles for high-performance Parkinson's disease drug  
Yukio Nagasaki  
Graduate School of Pure and Applied Sciences, University of Tsukuba, Japan / Graduate School of Comprehensive Human Sciences, University of Tsukuba, Japan

## Clinical trial and Regenerative medicine 2 E

- O-34-1** Development of antidote for therapeutic oligonucleotides which reduces the acute toxicity  
Masahiro Ohara  
Department of Neurology and Neurological Science, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University, Japan
- O-34-2** Clinical benefits of eculizumab monotherapy in NMOSD: findings from the phase 3 PREVENT study  
Larisa Miller  
Alexion Pharmaceuticals, USA
- O-34-3** Satralizumab monotherapy in neuromyelitis optica spectrum disorder: SAKuraStar subgroup analysis  
Jeffrey L. Bennett  
University of Colorado School of Medicine, USA
- O-34-4** Characteristic of intracerebral hemorrhage taking direct oral anticoagulants versus warfarin  
Satoshi Suda  
Department of Neurology, Nippon Medical School, Japan
- O-34-5** Natalizumab every 7 weeks dosing in 245 multiple sclerosis patients: efficacy and loss of PML risk  
Takahiko Saida  
Irino Clinic, Kansai Multiple Sclerosis Center, Japan / Institute of Multiple Sclerosis Therapeutics, Japan
- O-34-6** Delayed multiple cerebral lesions after endovascular aneurysmal embolization: a multicenter study  
Mikito Hayakawa  
Division of Stroke Prevention and Treatment, Faculty of Medicine, Univ. of Tsukuba, Japan
- O-34-7** Siponimod Delays the Time to Wheelchair in Patients with SPMS: Results from the EXPAND study  
Jin Nakahara  
Department of Neurology, Keio University School of Medicine, Japan
- O-34-8** Eculizumab for generalized myasthenia gravis: interim analysis of post-marketing surveillance  
Hiroyuki Murai  
International University of Health and Welfare, Japan
- O-34-9** Efficacy and Safety of satralizumab add-on therapy in a Phase 3 study in patients with NMOSD  
Takashi Yamamura  
Department of Immunology, National Institute of Neuroscience, and the Multiple Sclerosis Center, National Center of Neurology and Psychiatry, Japan

O-34-10 Current issues of selection criteria in the clinical trials for amyotrophic lateral sclerosis

Yuko Kobayakawa

Department of Neurology, Neurological Institute, Graduate School of Medical Sciences, Kyushu University, Japan / Kyushu University Hospital, Center of Clinical and Translational Research, Japan

O-35 Oral Session 35

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Cerebrovascular disease (clinical research 5) E

O-35-1 Increased iron deposition in CADASIL: a high-resolution quantitative susceptibility mapping study

Sun Chengyue

Department of Neurology, Peking University First Hospital, China

O-35-2 withdrawn

O-35-3 The impact of infarct location and size on prognosis in small vessel disease

Takeo Sato

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

O-35-4 withdrawn

O-35-5 Blood pressure variability after reperfusion therapy and poor outcomes in acute ischemic stroke

Satoshi Hosoki

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

★ O-35-6 CRTCI-regulated microRNA-132/212 plays a vital role in stroke mediated by vascular function (APe-01-8)

Haomin Yan

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

O-35-7 SREBP2 dependent PCSK 9 expression can be induced after brain ischemia

Atsushi Mizuma

Tokai University School of Medicine, Department of Neurology, Japan

O-35-8 withdrawn

O-35-9 withdrawn

O-36 Oral Session 36

Jp

Cerebrovascular disease (clinical research 6)

O-36-1 withdrawn

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**O-36-2** Relationship between left atrial volume index and paroxysmal atrial fibrillation in ischemic stroke

**Kentaro Yoshida**

Japanese Red Cross Matsue Hospital Department of Neurology

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**O-36-3** Left atrial size and cryptogenic stroke in ischemic stroke patients without atrial fibrillation

**Go Hashimoto**

Division of Cerebrovascular Medicine and Neurology, National Hospitalization Organization, Kyushu Medical Center

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**O-36-4** High level of serum PTX3 may distinguish between lacunar stroke and branch atheromatous disease

**Masato Kanazawa**

Department of Neurology, Brain Research Institute, Niigata University

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**O-36-5** Characteristic of the dramatic recovery cases after endovascular therapy for acute LVO stroke

**Takehiro Katano**

Department of Neurology, Nippon Medical School Hospital

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**O-36-6** Development of an ICT system to support a collaborative approach to acute stroke care

**Shoji Matsumoto**

Department of Comprehensive Strokeology, Fujita Health University School of Medicine

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**O-36-7** Endovascular therapy for juvenile cerebral infarction

**Yuji Nishi**

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

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**O-36-8** Efficacy of the support guiding catheter and Penumbra ACE for posterior circulation reperfusion

**Takahiro Himeno**

Department of Neurology, Brain attack center Ota memorial hospital

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**O-36-9** The results of coil embolization for unruptured cerebral aneurysms performed by a neurologist

**Hidesato Takezawa**

Department of Neurology, Saiseikai Shiga Hospital / NeuroEndovascular Therapy center, Saiseikai Shiga Hospital

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**O-36-10** Construction of a medical system for hyperacute cerebral infarction

**Kenichi Sakuta**

Department of Neurology, Kashiwa Hospital, Jikei University School of Medicine

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## Neurorehabilitation

- O-37-1** How can location of the stroke lesions affect synchronous brain activity? -An EEG study-  
**Teiji Kawano**  
 Department of Neurology, Morinomiya Hospital, Osaka, Japan / Department of Neurology, Graduate School of Medicine, Osaka University, Suita, Japan / Rhythm-based Brain Information Processing Unit, RIKEN CBS-TOYOTA Collaboration Center, RIKEN Center for Brain Science, Wako, Japan
- O-37-2** Functional recoveries following rehabilitation in different types of cerebral infarction  
**Yoshinobu Okuda**  
 Tane Neuro-Rehabilitation Hospital
- O-37-3** The effect of a motor assist glove rehabilitation for intrinsic muscle weakness in ALS  
**Isamu Yamakawa**  
 Department of Neurology, Shiga University of Medical Science
- O-37-4** Healthy individuals acquiring vacuum swallowing based on a strong negative pressure in the esophagus  
**Kenjiro Kunieda**  
 Hamamatsu City Rehabilitation Hospital / Gifu University Graduate School of Medicine
- O-37-5** Serum nicotinic acid level in patients with Parkinson's disease  
**Eriko Yokoyama**  
 Department of rehabilitation, Akita prefectural center for rehabilitation and psychiatric medicine
- O-37-6** Kinematic analysis at the gait initiation in patients with Parkinson's disease  
**Ryo Onuma**  
 Medical Corporation Meikeikai / Tokyo Medical and Dental University Graduate School
- O-37-7** Utility and possibility of esoteric meditation in stress management of Parkinson's syndrome  
**Shuei Murahashi**  
 Department of Neurology, Kumamoto Rosai Hospital
- O-37-8** Repetitive HAL<sup>®</sup> therapy for gait disturbance associated with CNS demyelinating diseases  
**Atsushi Okano**  
 Department of Neurology, Ichinomiya Nishi Hospital
- O-37-9** Rehabilitation of cerebellar hemorrhage in convalescent phase  
**Megumi Yokozeki**  
 Gakusai Hospital

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**O-37-10** Medical complications of patients with stroke in the rehabilitation hospital

**Chizuru Akimoto**

Tochigi Rehabilitation Center / Jichi Medical University

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**O-38 Oral Session 38**

**Jp**

**Dementia (clinical research 2)**

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**O-38-1** Modifiable Lifestyle Factors and Cognitive Function in Older People

**Noriyuki Kimura**

Department of Neurology, Oita University, Faculty of Medicine

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**O-38-2** What clinically affects the cognitive functions maintained in the healthy very olds ?

**Yoshinori Nishimoto**

Center for Supercentenarian Medical Research, Keio University, School of Medicine

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**O-38-3** Early-onset Alzheimer disease in Down syndrome

**Chisen Takeuchi**

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

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**O-38-4** Evaluation of Parkinsonism in 6 patients of Neuronal intranuclear inclusion disease (NIID)

**Hirokazu Furuya**

Department of Neurology, Kochi Medical School, Kochi University

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**O-38-5** Issue of 'dementia, delirium support team to treat'

**Sachiko Misumi**

Department of nursing, oosaka neurological institute

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**O-38-6** Withdrawal syndrome after donepezil cessation in patients with dementia

**Asako Ueno**

University of Fukui Hospital

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**O-38-7** Examinations of hyperactive delirium in the patients with dementia admitted by physical disorders

**Wakoh Takahashi**

Department of Neurology, Tokai University Oiso Hospital

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**O-38-8** Ultrasound assessment of Vascular Endothelial Function in Neurological disorders

**Kensuke Senzaki**

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

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**O-38-9** A study on the correlation between SVD score and cognitive function in patients with MCI

**Kana Matsuda**

Department of Neurology, Mie University Graduate School of Medicine / Department of Rehabilitation, Mie University Graduate School of Medicine

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**O-38-10** Age difference in the cut-off value of CIScore

**Hirotatsu Uchida**

Department of Neurology, Faculty of Medicine, Oita University

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**O-39 Oral Session 39**

**En**

**Neuroscience 2 E**

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**O-39-1** Perampanel improves seizure via the phosphorylation of GluA1 in the DRPLA transgenic mice

**Tomoko Toyota**

Department of Neurology, University of Occupational and Environmental Health School of Medicine, Japan

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**O-39-2** Calcium-binding proteins stimulate microglia to induce proinflammatory mediators similar to ALS

**Shintaro Hayashi**

Department of Neurology, Neurological Institute, Graduate School of Medical Sciences, Kyushu University, Japan / Department of Neurology, Gunma Rehabilitation Hospital, Japan

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**O-39-3** HDAC 10 KO activates chaperone-mediated autophagy and accelerates the decomposition of its substrate

**Yoshito Nagano**

Department of Clinical Neuroscience and Therapeutics, Graduate School of Biomedical and Health Sciences, Hiroshima University, Japan / Mitsubishi Tanabe Pharma, Japan

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**O-39-4** High reactivity to anti-HERV-K10 in HTLV-1-infected individuals

**Daisuke Kodama**

Division of Neuroimmunology, Joint Research Center for Human Retrovirus Infection (Kagoshima University Campus), Japan / Department of Neurology and Geriatrics, Graduate School of Medical and Dental Sciences, Kagoshima University, Japan

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**O-39-5** Expression of thymidine kinase 2 and mitochondrial proteins in SCA31 human brains

**Hanako Aoki**

Department of Neurology and Neurological Science, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University, Bunkyo, Tokyo, Japan

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**O-39-6** Clioquinol reduces oligomeric Tau

**Tadanori Hamano**

Department of Neurology, University of Fukui, Japan

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**O-39-7** Sex-specific differences in transcriptomic profiles and cellular characteristics of OPCs

**Ken Yasuda**

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

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O-39-8 Clinical and experimental studies of a novel K510Q FUS mutation in young-onset ALS

Deng Jianwen

Peking University First Hospital, China

O-39-9 Phosphorylated MARCKS is a common marker of neurite degeneration in across multiple dementia

Kyota Fujita

Dept. Neuropathology, Medical research institute, Tokyo Medical and Dental university, Japan

O-39-10 Quantum dot/nanogold colabeling for double correlative light and electron microscopy of human brain

Miho Uematsu

Laboratory of Structural Neuropathology, Tokyo Metropolitan Institute of Medical Science, Japan / Department of Neurology, Kyoto University Graduate School of Medicine, Japan / Department of Immunology and Genomics, Osaka City University Graduate School of Medicine, Japan / Division of Innate immune regulation, International Research and Development Center for Mucosal Vaccine, Institute of Medical Science, The University of Tokyo, Japan

## O-40 Oral Session 40

En

### Neuroimmunology 4 E

O-40-1 Blood-brain barrier-activation in myelin oligodendrocyte glycoprotein antibody associated disorders

Fumitaka Shimizu

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

O-40-2 MS-related TCR recognizes CMV which protects disability progression in patients with HLA-DRBI\*04:05

Fumie Hayashi

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

O-40-3 Neurons promote CD4<sup>+</sup> cells infiltration in experimental autoimmune encephalomyelitis via CCL2

Yuki Nakazato

Department of Internal Medicine, Division of Neurology, Respiriology, Endocrinology, and Metabolism, Department of Internal Medicine, Faculty of Medicine, University of Miyazaki, Japan

O-40-4 Connexin 47 regulates autoimmune demyelination in a novel mouse model of multiple sclerosis

Ryo Yamasaki

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

O-40-5 Drug targets for multiple system atrophy and primary progressive multiple sclerosis by a novel model

Yuji Nishimura

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

- O-40-6** Co-inhibitory molecule expressions on helper T cells reflect the diversity of MS and NMO  
Norio Chihara  
Division of Neurology, Kobe University Graduate School of Medicine, Japan
- O-40-7** Challenges using MRI vascular patterns to diagnose tumefactive demyelinating lesions  
Ryohei Komaki  
Division of Neurology, Kobe University Graduate School of Medicine, Japan
- O-40-8** Alterations of the Gut Ecological and Functional Microenvironment in Different Stages of MS  
Daiki Takewaki  
Department of Immunology, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Japan / Multiple Sclerosis Center, National Center of Neurology and Psychiatry, Japan / Department of Neurology, Kyoto Prefectural University of Medicine, Japan
- O-40-9** Role of disease activity for pregnancy outcome in a Japanese cohort of NMO, MS and MG  
Kaori Yanagawa  
Department of Neurology, Brain Research Institute, Niigata University, Niigata, Japan
- O-40-10** Association between serum amyloid A and cortical volume in patients with multiple sclerosis  
Hiroaki Yokote  
Department of Neurology, Nitobe Memorial Nakano General Hospital, Japan / Department of Neurology and Neurological Sciences, Tokyo Medical and Dental University, Japan

**O-41 Oral Session 41**

**Jp**

**Parkinsonism and Related disorders (clinical research 4)**

- O-41-1** Corticobasal Syndrome in a Patient with Anti-IgLON5 Antibodies  
Kimi Haru Fuseya  
Department of Neurology, Gifu University Graduate School of Medicine
- O-41-2** Sleep disturbances in Parkinson's disease  
Mizuki Kanemoto  
Department of Neurology, University of Showa Hospital
- O-41-3** withdrawn
- O-41-4** Features of Orthostatic Hypertension in Parkinson's Disease  
Hiroki Nakayama  
Tokyo Metropolitan Bokutoh Hospital
- O-41-5** The clinical feature of PSP-PGF  
Rina Hashimoto  
Department of Neurology, National Hospital Organization Higashinagoya National Hospital

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**O-41-6** PSP-FTD Preceded by Psychiatric Symptoms: Three Case Reports

Mio Miyata

Department of Rehabilitation, Akita Prefectural Center for Rehabilitation and Psychiatric Medicine

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**O-41-7** Doctors-led medical guidance to outpatients with PD in the large area around a prefectural border

Keiji Chida

Dpt of Clinical Neurology, National Hospital Organization Iwate Hospital

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**O-41-8** Atypical Parkinsonian Disorders and Epilepsy

Hitoshi Mori

Department of Neurology, Kurashiki Central Hospital

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**O-41-9** Inter-large-scale network alteration in Parkinson's disease with high impulsivity

Jinsoo Koh

Department of Neurology, Wakayama Medical University

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**O-41-10** Effect of levodopa administration on serum zinc levels in Parkinson's disease patients

Hirofumi Matsuyama

Department of Neurology, Mie University Graduate School of Medicine

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**O-42 Oral Session 42**

**Jp**

**Miscellaneous**

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**O-42-1** Variety of the diseases showing an elevation of sIL-2R in the CSF: an analysis of 1023 patients

Sayuri Shima

Department of Neurology, Fujita Health University, School of Medicine

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**O-42-2** Clinical Features of Central Nervous System Lymphoma

Chika Honjo

Department of neurology, Tenri Hospital

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**O-42-3** Three cases of lumbar canal stenosis showing abnormal intensity in both calf muscles on MRI

Takafumi Hosokawa

Department of Neurology, Osaka Medical College

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**O-42-4** Concentration of cerebrospinal fluid C5a in patients with idiopathic normal pressure hydrocephalus

Yoshiki Niimi

Department of Neurology Fujita Health University School of Medicine

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**O-42-5** Effect of deep brain stimulation on refractory Tourette syndrome

Nobutaka Takahashi

Department of Neurology, Fukuoka University Hospital

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**O-42-6**    2 cases of multisegmental amyotrophy secondary to cerebrospinal fluid leak

**Satoko Ninomiya**

Department of Neurology, Sumitomo Hospital

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**O-42-7**    Genetic Counselling for TTR-FAP: A Retrospective Study

**Katsuya Nakamura**

Center for Medical Genetics, Shinshu University Hospital / Department of Medicine (Neurology and Rheumatology), Shinshu University School of Medicine / Department of Medical Genetics, Shinshu University School of Medicine

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**O-42-8**    Poor physical condition with the weather change

**Tsukasa Kudaken**

Setagaya internal medicine neurology clinic

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**O-42-9**    Consideration on neurosyphilis and spa treatment in RAKUGO, traditional Japanese comical monologue

**Shuuichi Nagamatsu**

Department of Neurology, Kochi Medical School, Kochi University

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