

**O-01 Oral Session 01****En**

May 18 (Wed) 15:35 ~ 17:05

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

**Parkinsonism and Related disorders 1**

Chairs : Hidefumi Ito

School of Medicine, Wakayama Medical University

Mizuki Ito

Fujita Health University Bantane Hospital

**O-01-1** The analysis of the interaction between  $\alpha$ -synuclein and the lipids inducing pathological aggregation

Keita Kakuda

Department of Neurology, Osaka University, Japan

**O-01-2** Development of peptide drug for  $\alpha$ -synucleinopathies

Ichiro Kawahata

Department of CNS Drug Innovation, Tohoku University, Japan

- O-01-3** Clinical characteristics to predict the onset of visual hallucinations in Parkinson's disease  
Sayaka Akazawa  
Department of Neurology, Hyogo Prefectural Amagasaki General Medical Center Hospital, Japan
- O-01-4** CSF lipidomic alterations in Parkinson's disease reflects cognitive decline and neuronal damage  
Yasuaki Mizutani  
Department of Neurology, Fujita Health University School of Medicine, Japan
- O-01-5** Longitudinal cerebrospinal fluid data and basal forebrain atrophy in de novo Parkinson's disease  
Haruhi Sakamaki-tsukita  
Department of Neurology, Kyoto University Graduate School of Medicine, Japan
- O-01-6** Thyroid hormone as a promising biomarker of Lewy body diseases  
Tadashi Umehara  
Department of Neurology, The Jikei University School of Medicine, Tokyo, Japan

**O-02 Oral Session 02****En**

May 18 (Wed) 15:35 ~ 17:05

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

**Cerebrovascular disease 1**

Chairs : Kazuo Kitagawa

Tokyo Women's Medical University, Department of Neurology

Masato Kanazawa

Department of Neurology, Brain Research Institute, Niigata University

- O-02-1** RNF213 polymorphism predicts long-term progression and prognosis of intracranial artery stenosis  
Shuhei Okazaki  
Department of Neurology, Osaka University Graduate School of Medicine, Japan / Department of Neurology, National Cerebral and Cardiovascular Center, Japan
- O-02-2** Association between AF burden and recurrent ischemic stroke in cryptogenic stroke patients  
Kenichi Todo  
Department of Neurology, Osaka University Graduate School of Medicine, Japan
- O-02-3** Long-term outcome in patients with ischemic stroke or transient ischemic attack  
Yoshinari Nagakane  
Department of Neurology, Kyoto Second Red Cross Hospital, Japan
- ★ **O-02-4** Driver gene KRAS mutation contributes to cancer-associated stroke aggravation via repressing MEK/ERK  
(APe-01-4)  
Haomin Yan  
Graduate School of Medicine, Osaka University, Japan

**O-02-5** Regulatory System of Neurogenesis in Gerbil Dentate Gyrus after Transient Forebrain Ischemia

Yoshihide Sehora

Div Gen Ther, Ctr Mol Med, Jichi Med Univ, Japan

**O-02-6** The effect of occludin deficiency in tight junction in blood brain barrier after stroke

Shintaro Sugiyama

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

**O-03 Oral Session 03**

**Jp**

May 18 (Wed) 15:35 ~ 17:05

Room 07 (D Block 7F Hall D7)

**Parkinsonism and Related disorders 2**

Chair : Genko Oyama

Juntendo University

**O-03-1** Focused Ultrasound Thalamotomy for Essential Tremor and Parkinson's Disease: Pros and Cons

Yuwa Oka

Department of Neurology, Kitano Hospital, Tazuke Kofukai Medical Research Institute, Japan

**O-03-2** Development of Easy-to-Wear Elastic Stockings for Parkinson's Disease Patients

Tadanori Hamano

Department of Neurology, University of Fukui, Japan

**O-03-3** Characteristics of the relation between general higher brain function tests in Parkinson's disease

Kazutaka Hayashi

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

**O-03-4** Evaluation of insertion methods for placing naso-jejunal tube at LCIG test

Yuji Hashimoto

Department of Neurology, Saitama Prefectural Rehabilitation Center, Japan

**O-03-5** Cardiac sympathetic nerve function evaluated by MIBG myocardial scintigraphy in PSP

Ryu Yokoyama

Department of Neurology, Saitama Medical University, Japan

**O-03-6** MRgFUS unilateral thalamotomy and pallidotomy for Parkinson's disease

Yosuke Osakada

Ohnishi Neurological Center, Japan / Department of Neurology, Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama University, Japan

## Cerebrovascular disease 2

Chair : ~~Yasushi Okada~~ → Takahiro KuwashiroDepartment of Cerebrovascular Disease and Neurology, National Hospital  
Organization Kyushu Medical Center**O-04-1** Relation of BNP/NT-pro BNP to AF Detection with ICM in Cryptogenic Stroke: CRYPTON-ICM registry

Takuya Moriyama

Department of Stroke Neurology, National Hospital Organization Osaka National Hospital, Japan

**O-04-2** Clinical outcomes for stroke patients with cancer according to biological markers

Tomohisa Nezu

Department of Clinical Neuroscience and Therapeutics, Hiroshima University Graduate School of Biomedical and Health Sciences, Japan

**O-04-3** Detection of atrial fibrillation with focus on atrial cardiomyopathy

Kaoru Nakanishi

Department of Stroke and Cerebrovascular Medicine, Kyorin University, Japan

**O-04-4** Reclassification and Risk Stratification of ESUS by ASCOD phenotyping

Takao Hoshino

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

**O-04-5** Urinary Immunoglobulin G is Associated with poor outcome at 90 days in Ischemic Stroke Patients

Teppei Komatsu

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

**O-04-6** Atherosclerotic potential embolic source was associated with the outcome of ESUS

Hiroyuki Kida

Department of neurology, the Jikei university school of medicine, Japan

## Cerebellar ataxia and Myelopathy 1

Chair : Shigeru Koyano

Yokohama Minami Kyosai Hospital

**O-05-1** Analysis of extremely mild cerebellar ataxia by 3D motion capture

Naohisa Ueda

Department of Neurology, Yokohama City University Medical Center, Japan

**O-05-2** The first Japanese case of B4GALNT1-related disorder  
**Katsuya Nakamura**  
 Center for Medical Genetics, Shinshu University Hospital, Japan / Department of Medicine (Neurology and Rheumatology), Shinshu University School of Medicine, Japan

**O-05-3** Neuropathology of SCA34: oligodendroglial/vacuolar white matter degeneration and PSP-like tauopathy  
**Kokoro Ozaki**  
 Laboratory for Comprehensive Genomic Analysis, RIKEN Center for Integrative Medical Sciences, Japan / Dept of Neurology and Neurological Science, Tokyo Medical and Dental University, Japan / Diagnostics and Therapeutics of Intractable Diseases, Intractable Disease Research Center, Graduate School of Medicine, Juntendo University, Japan

**O-05-4** A large family report of Lamin B1 related Autosomal Dominant Adult-Onset Leukodystrophy  
**Makoto Eriguchi**  
 Division of Neurology, Department of Internal medicine, Saga University Faculty of medicine, Japan

**O-05-5** Evaluation of the usefulness of DIR in detecting the bright MCP sign in multiple system atrophy  
**Wataru Shiraishi**  
 Department of Neurology, Kokura Memorial Hospital, Japan / Shiraishi Internal Medicine Clinic, Japan

**O-05-6** Relationship between the level of 5-HIAA in CSF and clinical findings in multiple system atrophy  
**Ryunosuke Nagao**  
 Department of Neurology, Fujita Health University School of Medicine, Japan

## O-06 Oral Session 06

En

May 18 (Wed) 15:35 ~ 17:05

Room 10 (Glass Building 4F G409)

### Neuroimmunology 1

Chairs : **Sachiko Miyake**  
 Department of Immunology, Juntendo University Graduate School of Medicine  
**Tatsuro Misu**  
 Department of Neurology, Tohoku University Hospital

**O-06-1** Exosome GJA1-29k translational isoform is a novel blood biomarker for acute neuromyelitis optica  
**Maimaitijiang Guzailiayi**  
 Translational Neuroscience Center, Graduate School of Medicine, International University of Health and Welfare, Japan

★ **O-06-2** Different peripheral immune modulation between *Pink1<sup>-/-</sup>* and *Parkin<sup>-/-</sup>* mice during EAE  
 (APe-01-2)  
**Davide Cossu**  
 Juntendo University, Japan / Sassari University, Italy

**O-06-3 THE TREND OF ADMISSIONS AND SEVERITY IN MULTIPLE SCLEROSIS AND NEUROMYELITIS OPTICA IN JAPAN**

Yuki Matsumoto

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

**O-06-4 Astroglial connexin 43 is a novel therapeutic target for a chronic multiple sclerosis model**

Ezgi Ozdemir

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

**O-06-5 Combined in vitro and in silico studies of HLA-DQA1\*05:03, a disease-sensitive allele of NMOSD**

Shohei Beppu

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

**O-06-6 Dimethyl fumarate treatment showed unique change of  $\gamma\delta$  T cell subsets in multiple sclerosis patients**

Mitsuru Watanabe

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

**O-07 Oral Session 07****En**

May 18 (Wed) 15:35 ~ 17:05

Room 11 (Glass Building 7F G701)

**Neurogenetics and Gene therapy**

Chairs : Yaeko Ichikawa

Department of Neurology, Kyorin University School of Medicine

Motoharu Kawai

Neuromuscular Center Yoshimizu Hospital

**O-07-1 Cerebellar ataxia, neuropathy, vestibular areflexia syndrome has repeat conformation heterogeneity**

Satoko Miyatake

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

**O-07-2 Regulation of activated microglia and macrophages by DNA/RNA heteroduplex oligonucleotides**

Rieko Nishi

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

**O-07-3 Genetic origin of NOTCH2NLC GGC repeat expansion in four sporadic cases**

Hiromi Fukuda

Department of Neurology and Stroke Medicine, Yokohama City University, Japan / Department of Human Genetics, Yokohama City University, Japan

**O-07-4** Antisense modulation of tau isoforms ameliorates FTL-like phenotypes in adult mice  
**Shinsuke Ishigaki**  
 Department of Neurology, Nagoya University Graduate School of Medicine, Japan/Brain and Mind Research Center, Nagoya University, Japan

**O-07-5** Local administration of ASO prevents the propagation of abnormal  $\alpha$ -synuclein pathology in mice  
**Tatsuhiko Sano**  
 Department of Neurology and Neurological Sciences, Tokyo Medical and Dental University, Graduate School of Medical and Dental Sciences, Japan/Center for Brain Integration Research (CBIR), Tokyo Medical and Dental University (TMDU), Japan

**O-07-6** Systemic therapy for Fabry disease using AAV vector  
**Yuka Hayashi**  
 Division of Genetic Therapeutics, Center for Molecular Medicine, Jichi Medical University, Japan/Department of Neurology, Saitama Medical Center, Jichi Medical University, Japan

## O-08 Oral Session 08

En

May 18 (Wed) 15:35 ~ 17:05

Room 12 (Glass Building 4F G402)

### Muscle diseases 1

Chairs : Yoshi Sunada  
 Department of Neurology, Kawasaki Medical School  
 Kazuma Sugie  
 Department of Neurology, Nara Medical University

**O-08-1** A stapled myostatin inhibitory core peptide: its effect on caveolin-3- or dystrophin-deficient mice  
**Yoshihide Sunada**  
 Neurology, Kawasaki Medical School, Japan

**O-08-2** Development of Lipid-conjugated heteroduplex oligonucleotide as a new treatment for exon skipping  
**Juri Hasegawa**  
 Department of Neurology and Neurological Science, Tokyo Medical and Dental University, Japan

**O-08-3** A novel STIM1 variant and the significance of the SAM domain in tubular aggregate myopathy  
**Azusa Nagai**  
 Department of Neurology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Japan

**O-08-4** Study about genome editing mouse models carrying exon-deletions of severe- and mild-form BMD  
**Daigo Miyazaki**  
 Department of Medicine (Neurology and Rheumatology), Shinshu University School of Medicine, Japan/Intractable Disease Care Center, Shinshu University Hospital, Japan

**O-08-5** Specific subpopulation of human urine-derived cells suitable for myodifferentiation

**Katsuhiko Kunitake**

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

**O-08-6** Frequent intra-myonuclear inclusions is a distinctive finding of oculopharyngeal muscular dystrophy

**Nobuyuki Eura**

Department of Neuromuscular Research, National Center of Neurology and Psychiatry, Japan/  
Department of Neurology, Nara Medical University, Nara, Japan

## **O-09 Oral Session 09**

**Jp**

May 18 (Wed) 15:35 ~ 17:05

Room 13 (Glass Building 5F G502)

### **Peripheral neuropathy and Metabolic disorders 1**

Chair : Kazuhiro Endo

Kitanakagusuku Wakamatsu hospital

**O-09-1** Changes in diagnosis, treatment, and prognosis of POEMS syndrome: A 30-year-longitudinal study

**Tomoki Suichi**

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

**O-09-2** Clinical significance of anti-mitochondrial PDC-E2 antibody in immune-mediated neuropathy

**Yuki Fukami**

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

**O-09-3** Autoantibodies against contactin-associated protein 1 and its complex antigens in CIDP

**Michiaki Koga**

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

**O-09-4** Analysis of the subtypes and clinical features of Guillain-Barré syndrome

**Miki Fukazawa**

Department of Neurology, Nippon Medical School Hospital, Japan

**O-09-5** Clinical characteristics of pain in GBS

**Naohiro Sakamoto**

Department of Neurology, Anti-aging and Vascular medicine, National Defense Medical College, Japan

**O-09-6** Clinical presentation of paraparetic Guillain-Barré syndrome in Japan

**Keisuke Yoshikawa**

Kindai University Faculty of Medicine, Japan



## Neuroinfection

Chair : Ryuji Kubota

Joint Research Center for Human Retrovirus Infection, Kagoshima University

**O-10-1** Anti-HTLV-1 antibody assays in CSF appropriate for the diagnosis of HAM/TSP

Daisuke Kodama

Joint Research Center for Human Retrovirus Infection(Kagoshima University Campus), Division of Neuroimmunology, Japan

**O-10-2** Usefulness of spinal fluid lactate level in differentiation and prognosis of meningitis

Kazuki Kimoto

Department of Neurology, Hiroshima City Hospital, Japan

**O-10-3** Association between executive dysfunction caused by COVID-19 and Cerebral blood flow

Naoshi Koizumi

Department of Neurology, Kobe City Medical Center General Hospital, Japan

**O-10-4** Smell and taste dysfunction in mild-to-moderate COVID-19

Yoshinori Kajimoto

Division of Neurology, Wakayama Medical University Kihoku Hospital, Japan

**O-10-5** Usefulness of the BioFire® FilmArray® meningitis/encephalitis panel.

Kazuma Ota

Department of Neurology, Kobe City Medical Center General Hospital, Japan

**O-10-6** Distant foci of infection in community-acquired bacterial meningitis

Takafumi Hosokawa

Department of Internal Medicine IV, Osaka Medical and Pharmaceutical University, Japan

## O-11 Oral Session 11

## Neuropathology 1

Chair : Chiho Ishida

Department of Neurology, National Hospital Organization Iou National Hospital

**O-11-1** Development of AI-based application to detect and measure neuronal fibers in sural nerve biopsy

Daisuke Ono

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

**O-11-2** The significance of macrophages and autoantibodies in immune-mediated neuropathies

Haruki Koike

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

**O-11-3** Immunohistologic analysis of thrombi retrieved from patients with acute ischemic stroke

Hisao Shimizu

Department of Neurology, Nara Medical University, Japan

**O-11-4** Clinicopathological characteristics of sarcoid neuropathy

Naohiro Mouri

Nagoya University Graduate School of Medicine Department of Neurology, Japan

**O-11-5** Clinical significance of non-motor neuron involvement in amyotrophic lateral sclerosis

Kentaro Hayashi

Department of neurology, Tokyo metropolitan neurological hospital, Japan

**O-11-6** Immunohistopathology in patients with autoimmune glial fibrillary acidic protein astrocytopathy

Akio Kimura

Department of Neurology, Gifu university graduate school of medicine, Japan

## O-12 Oral Session 12

En

May 19 (Thu) 9:45 ~ 10:45

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

### Dementia 1

Chairs : Mineo Yamazaki

Department of Neurology, Nippon Medical School Chiba Hokusoh Hospital

Nobuo Sanjo

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

**O-12-1** Efficacy of nanomicelle-encapsulated anti-amyloid  $\beta$  oligomer fragment antibody in AD pathology

Nobuo Sanjo

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

**O-12-2** Appearance of transactivation-responsive DNA-binding protein-43 in cerebral amyloid angiopathy

Akihiro Shindo

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

**O-12-3** Effect of vitamin B12 supplementation on Cognition and Homocysteine in patients with B12 deficiency

Asako Ueno

University of Fukui, Japan / Fukui Saiseikai hospital, Japan

**O-12-4** Impact of ApoE epsilon4 on plasma AD biomarkers of adults with Down syndrome

Takashi Kasai

Department of Neurology, Kyoto Prefectural University of Medicine, Japan

**Parkinsonism and Related disorders 3**

Chair : Eiji Mizuta

Hyogo Prefectural Rehabilitation Hospital at Nishi-Harima

- O-13-1** Characteristic face, short stature, and phasic involuntary movements are defining features of DYT28

Hirofumi Kashii

Department of Neuropediatrics, Tokyo Metropolitan Neurological Hospital, Japan

- O-13-2** Impact of subjective vertical perception on frontal flexion in Parkinson's disease ~ multicenter study

Makoto Shiraishi

Department of Neurology, St. Marianna University School of Medicine, Japan / Parkinson's disease study group in Kanto area, Japan

- O-13-3** Characteristics of Olfactory Dysfunction in Parkinson's Disease and Related Disorders

Konoka Esaka

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

- O-13-4** Analysis of linguistic features of Parkinson's disease using natural language processing

Katsunori Yokoi

Department of Neurology, National Hospital for Geriatric Medicine, Japan / Department of Neurology, Nagoya University Graduate School of Medicine, Japan

**Motor neuron disease 1**

Chairs : Osamu Kano

Department of Neurology, Toho University Faculty of Medicine

Taro Ishiguro

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

- O-14-1** Two distinct pathological aggregation mechanisms of TDP-43 in ALS  
Masahiro Fujii

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

- O-14-2** Phenotypic variation and therapeutic strategy of SCA8-associated amyotrophic lateral sclerosis

Makito Hirano

Department of Neurology, Kindai University Faculty of Medicine, Japan

- O-14-3** LOTUS, an Nogo receptor antagonist, improves phenotypes of ALS model mice

Takuya Ikeda

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

O-14-4 Quantification of cerebral blood flow in the precentral gyrus in amyotrophic lateral sclerosis

Toru Yamakawa

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

O-15 Oral Session 15

En

May 19 (Thu) 9:45 ~ 10:45

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

Muscle diseases 2

Chairs : Satoshi Yamashita

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

Masayuki Nakamori

Dept. of Neurology, Osaka University Graduate School of Medicine

O-15-1 Mechanistic analysis of sporadic inclusion body myositis using patients-derived satellite cells

Naoki Suzuki

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

O-15-2 Expanded CUG repeat RNA induces premature senescence in myotonic dystrophy

Yuhei Hasuike

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

O-15-3 Localization of cN1A on sarcoplasmic membrane in myofibers of inclusion body myositis

Satoshi Yamashita

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

O-15-4 A survey of anti-mitochondrial antibody-positive myositis using a nationwide questionnaire

Meiko Maeda

Department of neurology, the University of Tokyo Hospital, Japan

O-16 Oral Session 16

Jp

May 19 (Thu) 9:45 ~ 10:45

Room 07 (D Block 7F Hall D7)

Cerebrovascular disease 3

Chair : Shinichi Takahashi

Department of Neurology and Stroke, Saitama Medical University International Medical Center

O-16-1 Impact of cognitive impairment on ischemic stroke recurrence: The Fukuoka Stroke Registry

Takahiro Kuwashiro

Department of Cerebrovascular Medicine and Neurology, National Hospital Organization, Kyushu Medical Center, Japan

**O-16-2** Impact of CHA<sub>2</sub>DS<sub>2</sub>-VASc score on Long-term Outcomes after Large Vessel Occlusion in Patients with AF

Nobuyuki Ohara

Department of Neurology, Kobe City Medical Center General Hospital, Japan / Department of Neurology, Osaka University Graduate School of Medicine, Japan

**O-16-3** Association of Left Atrial Appendage Flow Velocity with AF Detection on ICM in Cryptogenic Stroke

Yuji Ueno

Department of Neurology, Juntendo University Faculty of Medicine, Japan

**O-16-4** Practical use of prehospital stroke scale for predicting LVO using mobile application in Tokushima

Yuki Yamamoto

Department of Clinical Neuroscience, Tokushima University Hospital, Japan

## O-17 Oral Session 17

Jp

May 19 (Thu) 9:45 ~ 10:45

Room 08 (D Block 5F Hall D5)

### Neuroimmunology 2

Chair : Chiyoko Nohara

Tokyo Metropolitan Health and Medical Treatment Corporation Ebara Hospital

**O-17-1** Prediction of therapeutic response by T cell subset reflecting the stages of MS: from RR-MS to SP-MS

Youwei Lin

Dep. Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Japan / Dep. Immunology, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Japan

**O-17-2** A deep-learning classification model to aid differentiating NMOSD from MS

Yusei Miyazaki

Department of Neurology, Hokkaido Medical Center, Japan

**O-17-3** Disability progression in Japanese patients with multiple sclerosis: different from Europeans?

Takahiko Saida

Kansai Multiple Sclerosis Center, Japan / Kyoto Neurology Clinic, Institute for Multiple Sclerosis Therapeutics, Japan / Irino Clinic Kansai Multiple Sclerosis Center, Japan

**O-17-4** Primary nationwide epidemiological survey of MOG-IgG associated disorders (MOGAD)

Masashi Nakamura

Division of Neurology, Tohoku Medical and Pharmaceutical University, Japan

## Peripheral neuropathy and Metabolic disorders 1

Chair : Yu Hongo

National Defense Medical College, Division of Neurology, Department of Internal Medicine

**O-18-1** Demyelinating polyneuropathy and nephrotic syndrome with anti-CNTN1 IgG4 antibodies

Mai Hamaguchi

Dokkyo Medical University Hospital Department of Neurology, Japan

**O-18-2** Validity of EAN/PNS electrodiagnostic criteria for CIDP: comparison with the previous version

Takamichi Kanbayashi

Department of Neurology, Teikyo University School of Medicine, Japan

**O-18-3** Temporal changes of clinical findings and nerve conduction studies in CIDP

Soma Furukawa

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

**O-18-4** Wrist-to-forearm ratio in CIDP and MMN

Masaaki Yoshikawa

Division of Neurology, Kobe University Graduate School of Medicine, Japan / Division of Neurology, Department of Internal Medicine Saga University Faculty of Medicine, Japan

## Neurorehabilitation

Chairs : Ichiro Miyai

Department of Neurology, Morinomiya Hospital

Makoto Eriguchi

Saga University

**O-19-1** New wearable device to support lateral swing of the trunk for Parkinsonian gait disturbances

Hisamasa Imai

Department of Neurology, Tokyo Rinkai Hospital, Japan

**O-19-2** Short and long term effects of HAL<sup>®</sup> therapy for ALS patients

Harumi Morioka

Department of Neurology, Toho University Faculty of Medicine, Japan

**O-19-3** Wearable technology and Geo-fencing device is a boon for Alzheimer's disease patients

Vikas Sharma

SNM college and hospital, India

**O-19-4** Sleep disorder in neuromuscular diseases assessed by a piezoelectric sheet sensor, Vital Beats™

Chifumi Iseki

Division of Neurology and Clinical Neuroscience, Department of Internal Medicine 3rd, Yamagata University School of Medicine, Japan

**O-20 Oral Session 20**

**En**

May 19 (Thu) 9:45 ~ 10:45

Room 11 (Glass Building 7F G701)

## Neuroimaging

Chairs : Masamichi Ikawa

Department of Neurology, University of Fukui Hospital

Hitoshi Shimada

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

**O-20-1** Regional cortical hypoperfusion and atrophy correlated with dopaminergic loss in Parkinson's disease

Masamichi Ikawa

Second Department of Internal Medicine, Faculty of Medical Sciences, University of Fukui, Japan  
/ Biomedical Imaging Research Center, University of Fukui, Japan

**O-20-2** Iron deposition in the nigro-striatal system in Multiple System Atrophy : a 7 tesla MRI study

Yusuke Sakato

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

**O-20-3** Susceptibility of nigrosome-1 measured by 7 tesla MRI in the early and advanced Parkinson's disease

Atsushi Shima

Human Brain Research Center, Kyoto University Graduate School of Medicine, Japan/  
Department of Neurology, Kyoto University Graduate School of Medicine, Japan / Department of Human Health Sciences, Kyoto University Graduate School of Medicine, Japan

**O-20-4** High sensitivity of asymmetric <sup>18</sup>F-THK5351 PET abnormality in corticobasal syndrome patients

Masanori Kurihara

Department of Neurology, Tokyo Metropolitan Geriatric Hospital and Institute of Gerontology, Japan

## Muscle diseases 3

Chair : Shigeaki Suzuki

Department of Neurology, Keio University School of Medicine

**O-21-1** Clinical features in seronegative immune-mediated necrotizing myopathy

Haruhiko Motegi

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

**O-21-2** Alanine transaminase is predominantly increased in anti-HMGCR myopathy

Akatsuki Kubota

Department of Neurology, The University of Tokyo, Japan

**O-21-3** Examination of c.3725G > A (p.R1242H) of dysferlin not to determine as a pathogenic variant

Toshiaki Takahashi

Department of Neurology, National Hospital Organization Sendai-Nishitaga Hospital, Japan

**O-21-4** Screening for Dysphagia in Facioscapulohumeral Muscular Dystrophy Type 1

Toshiyuki Yamamoto

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

## Pediatric neurology

Chair : Satoko Kumada

Department of Neuropediatrics, Tokyo Metropolitan Neurological Hospital

**O-22-1** Preparation for clinical trials aimed at apomorphine on Leigh syndrome

Hitoshi Osaka

Department of Pediatrics, Jichi Medical University, Japan

**O-22-2** Pallidal deep brain stimulation is life-saving for pediatric patients with GNAO1 mutations

Tomoko Ohara

Department of Neuropediatrics, Tokyo Metropolitan Neurological Hospital, Japan

**O-22-3** Research on finger movements in neuromuscular diseases

Toshio Saito

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



**O-22-4** Clinical features of pediatric patients with MOG-IgG associated disorders

Ai Hoshino

Department of Neuropediatrics, Tokyo Metropolitan Neurological Hospital, Japan

**O-23 Oral Session 23****Jp**

May 19 (Thu) 9:45 ~ 10:45

Room 14 (Glass Building 5F G510)

**Epilepsy**

Chair : Misa Nakano

Suita Municipal Hospital Department of Neurology

**O-23-1** Clinical features in post-stroke epilepsy: PROPOSE study

Kazuki Fukuma

Department of Neurology, National Cerebral and Cardiovascular Center, Japan

**O-23-2** Pure amnesic seizures in temporal lobe epilepsy: An intracranial EEG study

Norihiko Kawaguchi

Department of Epileptology, National Epilepsy Center, NHO Shizuoka Institute of Epilepsy and Neurological Disorders, Japan

**O-23-3** The effect of interictal epileptic discharges on motor sequence learning in epilepsy patients

Toshiki Okadome

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

**O-23-4** Diagnosis and treatment of focal seizures in Kochi Prefecture

Tomohiro Shogase

Department of Neurology, Kochi Medical School, Kochi Prefecture, Japan

**O-24 Oral Session 24****Jp**

May 19 (Thu) 9:45 ~ 10:45

Room 15 (Glass Building 6F G602)

**Clinical Neurophysiology 1**

Chair : Nobue K. Iwata

Department of Neurology, International University of Health and Welfare, Mita Hospital

**O-24-1** Repetitive wideband induced power increase and decrease after giant somatosensory evoked potentials

Haruo Yamanaka

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

**O-24-2** Complex repetitive discharges are more likely to be detected in elderly women, proximal upper limb

Kota Bokuda

Dept. of Neurology, Tokyo Metropolitan Neurological Hospital, Japan

O-24-3 High beta oscillation in the subthalamic nucleus have a relation to amount of antiparkinsonian drug

Asuka Nakajima

Department of Neurology, Juntendo University Nerima Hospital, Japan / Department of Research and Therapeutics for Movement Disorders, Juntendo University School of Medicine, Japan

O-24-4 Role of primary motor cortex in gait: Automatic-voluntary dissociation seen in stroke patients

Masanori Nagaoka

Department of Rehabilitation, Tsubasa-no-ie Rehabilitation Hospital, Japan

O-25 Oral Session 25

En

May 20 (Fri) 9 : 45 ~ 11 : 15

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

### Cerebrovascular disease 4

Chairs : Tadashi Terasaki

Japanese Red Cross Kumamoto hospital

Kazunori Toyoda

National Cerebral and Cardiovascular Center

O-25-1 Moyamoya disease susceptibility variant promotes intracranial arteriopathy in hypercholesterolemia

Yorito Hattori

Department of Neurology, National Cerebral and Cardiovascular Center, Japan

O-25-2 Chronological changes of cerebral vasospasm and cerebral blood flow in RCVS

Yuya Kano

Department of Neurology, Toyokawa City Hospital, Japan

O-25-3 Downward type M1 segment of MCA is a risk factor for branch atheromatous disease

Junpei Nagasawa

Department of Neurology, Toho University Faculty of Medicine, Japan

★ O-25-4 Deviation of BP from autoregulation limits after intravascular treatment correlates with outcomes

(APE-01-6)

Zhe Zhang

Beijing Tiantan Hospital, Capital Medical University, China

O-25-5 Atherosclerotic Vertebral Artery Occlusive Disease Predicts Poor Outcome in Medullary Infarction

Yasumasa Yamamoto

Department of Neurology, Kyoto Katsura Hospital, Japan

O-25-6 Endovascular Thrombectomy for Acute Ischemic Stroke among the Filipinos

Glenn Anthony A. Constantino

The Medical City, Institute of Neurological Sciences - Department of Neurology, Philippines

**Dementia 2**

Chair : Hirohisa Watanabe

Fujita Health University, School of Medicine

O-26-1 Elevated CSF phosphorylated tau(p-tau181) concentration in neuronal intranuclear inclusion disease

Hiroki Komatsu

Department of Neurology, Tokyo Metropolitan Geriatric Hospital, Japan

O-26-2 Relationship between CSF MMPs levels, brain amyloid deposition, and white matter lesions

Noriyuki Kimura

Department of Neurology, Faculty of Medicine, Oita University, Japan

O-26-3 Development of a 3D VR navigation task to detect the earliest lesions in Alzheimer's disease

Hirohisa Watanabe

Department of Neurology, Fujita Health University, Japan

O-26-4 Paravermal lesions on MRI in neuronal intranuclear inclusion disease

Ryo Tokimura

Department of Neurology, The University of Tokyo, Japan

O-26-5 Site-specific risk factors for white matter lesions in Alzheimer's disease: A retrospective study

Yoshihisa Kitayama

Department of Neurology, Graduate School of Medicine, Chiba University, Japan / Medical Center for Dementia, Chiba University Hospital, Japan

O-26-6 The clinical course of cognitive symptoms and medial temporal lobe atrophy in amnesic patients

Kohei Morimoto

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

**Cerebellar ataxia and Myelopathy 2**

Chairs : Kinya Ishikawa

The Center for Personalized Medicine for Healthy Aging, Tokyo Medical and Dental University

Kokoro Ozaki

RIKEN, Institute of Medical Sciences, Laboratory for Comprehensive Genomic Analysis

**O-27-1** A population of inflammatory microglia exacerbates a novel mouse model of multiple system atrophy

Dai Matsuse

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

**O-27-2** Expression and function of TK2 in the cerebellum of SCA31 caused by penta-nucleotide repeat(TTCCA)<sub>n</sub>

Hanako Aoki

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

**O-27-3** Quantitative evaluation of upper limb ataxia in the patients with spinocerebellar degeneration

Yoshiyuki Kishimoto

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

**O-27-4** Motor phenotype of BAC transgenic mice with SCA31 pentanucleotide repeats

Miwa Higashi

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

**O-27-5** Early loss of connexin 32 in multiple system atrophy; implication for pathogenesis of demyelination

Yuji Nishimura

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

**O-27-6** Adaptation of eye movement in hereditary spinocerebellar atrophy

Satomi Inomata-Terada

Department of Medical Physiology, Kyorin University, Japan

## Neuroscience

Chairs : Takashi Nagamine

Department of Systems Neuroscience, School of Medicine, Sapporo Medical University

Hiroyuki Ishiura

Department of Neurology, The University of Tokyo

O-28-1 DNA damage in embryonic neural stem cell determines FTLDs' fate via early-stage neuronal necrosis

Kyota Fujita

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

O-28-2 Cell-free DNA profiling reveals neutrophils as type1 interferon driver in neuromyelitis optica

Hisashi Murata

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

O-28-3 microglia: a key player in Cnm-positive Streptococcus mutans related intracerebral hemorrhage

Shuichi Tonomura

Department of Neurology, Graduate School of Medicine, Kyoto University, Japan / Department of Neurology, National Cerebral and Cardiovascular Center, Japan / Department of Vascular Physiology, Research Institute, National Cerebral and Cardiovascular Center, Japan

O-28-4 Analysis of pathogenesis of sialidosis using iPS cells generated from fibroblasts

Hirokazu Furuya

Department of Neurology, Kochi Medical School, Kochi University, Japan

O-28-5 Effect of IgG from Guillain-Barré syndrome on the blood-nerve barrier

Fumitaka Shimizu

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

O-28-6 withdrawn

## Parkinsonism and Related disorders 4

Chair : Masaaki Hirayama  
 department of pathologicascience

- O-29-1 Orthostatic hypotension and 24-h ABPM for the assessment of cognitive decline in Parkinson's disease

Tadashi Ozawa

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

- O-29-2 Pathophysiology of swallowing dysfunction in patients with Parkinson's disease

Satoshi Tomita

Department of Neurology and Clinical Research Center, National Hospital Organization Utano National Hospital, Japan

- O-29-3 Examination of blood carnitine concentration in patients with Parkinson's disease

Heisuke Mizukami

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

- O-29-4 Patients with Parkinson's disease prefer sweets

Michika Sakamoto

Nippon Medical School Hospital Neurology Department, Japan

- O-29-5 Frequency of Myerson's sign in patients with Parkinson's disease and other diseases

Seira Hatake

Department of Neurology, Nippon Medical School Hospital, Japan

- O-29-6 Diagnosis of Parkinson's disease in the patients with stroke

Mio Yokoi

Steel Memorial Yawata Hospital, Japan

## Cerebrovascular disease 5

Chair : Yoshiaki Itoh  
 Osaka City University Graduate School of Medicine

- O-30-1 Stroke prevention, hemorrhagic complication and antithrombotic therapy 1 year after closure of PFO

Masahiro Katsumata

Department of Neurology, Keio University School of Medicine, Japan

**O-30-2** Time course in the number of patients with severe COVID-19 and acute stroke: a single-center study

Tomohiro Fujioka

Department of Neurology, Osaka General Medical Center, Japan

**O-30-3** Examination of recurrent cerebral infarction in patients with insertable cardiac monitor

Ryosuke Doijiri

Department of Neurology, Iwate prefectural central hospital, Japan

**O-30-4** Ghost infarct core can be related with the time from CTP to successful recanalization for stroke

Mikito Saito

Department of Stroke and Cerebrovascular Medicine, Kyorin University, Japan

**O-30-5** Actual prognosis survey of the acute ischemic stroke patients: T-CONCERN

Kosuke Matsuzono

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

**O-30-6** Effects of statin and LDL cholesterol levels on recurrence in the acute phase of ischemic stroke

Misato Ozawa

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

### O-31 Oral Session 31

Jp

May 20 (Fri) 9:45 ~ 11:15

Room 09 (D Block 1F Hall D1)

### Neuroimmunology 3

Chair : Yukiko Ohkubo

Sapporo Nishimaruyama Hospital

**O-31-1** Effectiveness of treatment for patients with seropositive autoimmune autonomic ganglionopathy

Toshiyuki Hayashi

Department of Neurology, Nippon Medical School Hospital, Japan

**O-31-2** National Survey of Stiff-Person Syndrome

Yohei Yamamoto

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

／Department of Neurology, Takamatsu Red Cross hospital, Japan

**O-31-3** TCR repertoire analysis targeting HTLV-1-infected cells in HAM patients for biomarker discovery

Satoshi Nozuma

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

O-31-4 Eculizumab post-marketing surveillance for neuromyelitis optica spectrum disorder-2nd interim report

Kazumi Okamura

Medical Affairs, Alexion Pharma GK, Japan

O-31-5 The mechanism for the elevation of CSF fluid IL-6 in chronic progressive neuro-Behcet's disease

Shuns Hirohata

Nobuhara Hospital, Japan/Seikyo University School of Medicine, Japan

O-31-6 Clinical picture of Lambert-Eaton muscle asthenia syndrome-comparison with and without tumor-

Hiroaki Yoshikawa

Kanazawa University Health Service Center, Japan

## O-32 Oral Session 32

En

May 20 (Fri) 9:45 ~ 11:15

Room 10 (Glass Building 4F G409)

### Neuroimmunology 4

Chairs : Ichiro Nakashima

Tohoku Medical and Pharmaceutical University

Noriko Isobe

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

O-32-1 FABP inhibitor, BRI-601 ameliorates oligodendrocyte injury in a multiple sclerosis mouse model

Kohji Fukunaga

Department of CNS drug innovation, Tohoku University Grad Sch Pharm Sci, Japan

O-32-2 Low gray matter volume can predict cognitive decline in Japanese patients with multiple sclerosis

Shoko Fukumoto

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

O-32-3 PD-1 positive CD8<sup>+</sup> T cells marks good clinical outcome in patients with relapse-remitting MS and CIS

Norio Chihara

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

O-32-4 Clinical and immunological features of autoimmune encephalitis and its related disorders

Takahiro Iizuka

Department of Neurology, Kitasato University School of Medicine, Japan

O-32-5 Rapid Response to intravenous methylprednisolone in acute attacks with multiple sclerosis

Junichiro Takahashi

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



**O-32-6** Foot-dorsiflexion power on the dominant hand side is useful to predict multiple sclerosis disability

**Jun-ichi Kira**

Department of Neurology, Brain and Nerve Center, Fukuoka Central Hospital, International University of Health and Welfare, Japan / Translational Neuroscience Center, Graduate School of Medicine, International University of Health and Welfare, Japan / School of Pharmacy at Fukuoka, International University of Health and Welfare, Japan

**O-33 Oral Session 33**

**En**

May 20 (Fri) 9:45 ~ 11:15

Room 11 (Glass Building 7F G701)

## Neuropathology 2

Chairs : Shunya Nakane

NIPPON MEDICAL SCHOOL HOSPITAL

Kensuke Ikenaka

Department of Neurology, Osaka University Graduate school of Medicine

**O-33-1** Plexin D1 is upregulated in degenerated motor neurons of amyotrophic lateral sclerosis patients

**Takayuki Fujii**

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

**O-33-2** Effect of YAP-dependent necrosis in the ultra early stage on Alzheimer's disease pathology

**Hikari Tanaka**

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

**O-33-3** Axonal accumulation of phosphorylated CRMP1 in human ALS spinal cords

**Yuko Kawamoto**

Department of Neurology, Yokohama City University Graduate School of Medicine, Japan / Department of Molecular Pharmacology and Neurobiology, Yokohama City University Graduate School of Medicine, Japan

**O-33-4** Ser 522-phosphorylation of CRMP1 modulates the motor function of amyotrophic lateral sclerosis mice

**Tetsuya Asano**

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

**O-33-5** The first evaluation of calretinin in the spinal axons and cerebrospinal fluids of ALS patients

**Shintaro Hayashi**

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

**O-33-6** Comparison of MRI images between 3 biopsied cases of inflammatory cerebral amyloid angiopathy (ICAA)

**Satomi Hiya**

Kobe City General Hospital Department of Neurology, Japan

## Motor neuron disease 2

Chair : Akihiro Hashiguchi

Kagoshima University Hospital, Neurology, Neurological Disease Center

O-34-1 A diagnostic marker of amyotrophic lateral sclerosis based on muscle ultrasonographic fasciculations

Koji Fukushima

Department of Neurology, Tokushima University Graduate School of Biomedical Sciences, Japan  
/ Department of Neurology, Nara Medical University, Japan

O-34-2 Upper motor neuron signs and cortical hyperexcitability in amyotrophic lateral sclerosis

Kazumoto Shibuya

Department of Neurology, Chiba University, Japan

O-34-3 Study on Method to Assess Efficacy of Risdiplam on Manual Dexterity in SMA: A Study Protocol

Akihiro Hashiguchi

Neurology, Neurological Disease Center, Kagoshima University Hospital, Kagoshima, Japan

O-34-4 Surgical invasiveness of percutaneous endoscopic gastrostomy in amyotrophic lateral sclerosis

Sagiri Iose

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

O-34-5 Evaluation of respiratory function in ALS using ultrasound speckle tracking

Shunsuke Watanabe

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

O-34-6 Bright tongue sign is associated with dysphagia of ALS patients

Takashi Kurashige

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

## Clinical trial and Regenerative medicine

Chair : Yasuo Ito

Department of Neurology, Saitama Medical University

O-35-1 SUNFISH: 3-year efficacy and safety of risdiplam in Types 2 and 3 SMA

Kayoko Saito

Institute of Medical Genetics, Tokyo Women's Medical University, Japan

**O-35-2** FIREFISH Parts 1 and 2: Safety and efficacy of risdiplam in Type 1 spinal muscular atrophy

Yasuhiro Takeshima

Department of Paediatrics, Hyogo College of Medicine, Japan

**O-35-3** Lasmiditan: Efficacy on Migraine Attacks During Perimenstrual Period from 2 Studies

Hisaka Igarashi

Fujitsu Clinic, Kawasaki, Japan

**O-35-4** Efficacy of Lasmiditan in Japanese Patients with Difficult-To-Treat Migraine

Yoshihisa Tatsuoka

Tatsuoka Neurology Clinic, Kyoto, Japan

**O-35-5** THIRTY-MONTH ANALYSIS OF EFFICACY AND SAFETY OF GIVOSIRAN IN THE ENVISION OPEN LABEL EXTENSION

Tomohide Adachi

Department of Neurology and General Internal Medicine, Tokyo Saiseikai Central Hospital, Japan

**O-35-6** Safety and efficacy of low dose apixaban after large vessel occlusion in acute ischemic stroke

Yasutaka Murakami

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

## O-36 Oral Session 36

Jp

May 20 (Fri) 9:45 ~ 11:15

Room 14 (Glass Building 5F G510)

### Peripheral neuropathy and Metabolic disorders2

Chair : Mitsuru Sanada

Department of Neurology, Shiga University of Medical Science

**O-36-1** Analysis of epitopes recognized by MAG antibody for the purpose of producing specific adsorbent

Masanori Nakajima

Department of Neurology, Kyorin University School of Medicine, Japan

**O-36-2** Autonomic and somatic nerve dysfunction in diabetes: A study by Sudoscan and nerve conduction

Masayuki Baba

Aomori Prefectural Neurological Center, Japan

**O-36-3** Sensory disturbances and subjective symptoms in patients with arsenic exposure in Toroku, Japan

Hitoshi Mochizuki

Department of Neurology, University of Miyazaki, Japan

**O-36-4** Analysis of cardiac involvement in hereditary transthyretin amyloidosis after liver transplantation

Yohei Misumi

Department of Neurology, Kumamoto University, Japan

O-36-5 Analysis of clinical features and long-term outcomes of 8 cases with MMN  
Joe Nemoto  
Department of Clinical Neuroscience and Neurology, Yamaguchi University Graduate School of  
Medicine, Japan

O-36-6 Clinical feature of sensory neuropathy developing after immune  
checkpoint inhibitor administration  
Kenji Maruyama  
Department of Neurology, Toda Central General Hospital, Japan

### O-37 Oral Session 37

Jp

May 20 (Fri) 9:45 ~ 11:15

Room 15 (Glass Building 6F G602)

### Headache and Sleep disorders

Chair : Shuichi Igarashi  
Department of Neurology, Niigata City General Hospital

O-37-1 The study of hemiplegic migraine patients with mixed excitation and  
hypofunction on wide-band EEG  
Yuu Tatsuoka  
Department of Neurology, Kyoto University Graduate School of Medicine, Japan

O-37-2 Predictors of neurodegenerative disease and dementia in idiopathic  
REM sleep behavior disorder  
Masayuki Miyamoto  
Dokkyo Medical University School of Nursing, Japan / Center of Sleep Medicine Dokkyo Medical  
University Hospital, Japan

O-37-3 Vasomotor symptoms and migraine like attack in patients with  
Myeloproliferative Neoplasms  
Takashi Shimoyama  
Department of Neurology, Nippon Medical School, Japan

O-37-4 Clinical characteristics of 25 cases of giant cell arteritis with positive  
pathological diagnosis  
Sho Shimohama  
Department of Neurology, Shizuoka Red Cross Hospital, Japan

O-37-5 Study on switching of CGRP-related monoclonal antibody in patients  
with non or low reactive migraine  
Shoji Kikui  
Department of Neurology & Headache center, Tominaga Hospital, Japan

O-37-6 Patient satisfaction questionnaire survey of galcanezumab in the real  
world  
Chihiro Kuwata  
Division of Neurology, Department of Internal Medicine, St. Marianna University School of  
Medicine, Japan

## Parkinsonism and Related disorders 5

Chairs : Taku Hatano

Juntendo University School of Medicine

Jun Tashiro

Sapporo Parkinson MS Neurological Clinic

- O-38-1** Long-term and differential effects of regular physical activity in early-stage Parkinson's disease

Kazuto Tsukita

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

- O-38-2** Glial exosomal secretion contributes to  $\alpha$ -synuclein accumulation and propagation in brains

Taiji Tsunemi

Department of Neurology, Juntendo University School of Medicine, Japan

- O-38-3** Long-term outcome of adaptive DBS using LFP sensing technology

Katsuo Kimura

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

- O-38-4** Istradefylline/L-DOPA combination therapy with pharmacological remodeling of GPCR signalings

Naomi Kanzato

Okinawa Southern Medical Center, Japan

- O-38-5** Machine learning trained with multi-atlas QSM to detect cognitive decline in Parkinson's disease

Haruto Shibata

Department of Neurology, Nagoya City University East Medical Center, Japan / Department of Neurology, Toyokawa City Hospital, Japan

- O-38-6** Sudden death and pneumonia are major causes of death in Parkinson's disease.

Shuro Kogawa

Kohka Public Hospital, Japan

## Cerebrovascular disease 6

Chair : Masatoshi Koga

National Cerebral and Cardiovascular Center

- O-39-1** NCVC Genome Registry; rationale, design, and baseline characteristics of the participants

Takeshi Yoshimoto

Department of Neurology, National Cerebral and Cardiovascular Center, Japan

O-39-2 Validation of head CT scan using artificial intelligence for the detection of cerebral infarction

Soichiro Shibata

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

O-39-3 The cooperation of multi-departments for AIS ~ the challenging of D2P <30 minutes ~

Hidekazu Yamazaki

Department of Neurology and Neuroendovascular Treatment, Yokohama Shintoshi Neurosurgical Hospital, Japan

O-39-4 Association of the RNF213 pR.4810K Variant with the Diameter of Cervical Portion of Carotid Arteries

Eriko Yamaguchi

Department of Neurology, National Cerebral and Cardiovascular Center, Japan

O-39-5 Prolonged course in PRES; Clinical and radiological features

Kumiko Miura

Department of Neurology, Jichi Medical University, Japan

O-39-6 Impact of COVID-19 pandemic on stroke management system in our hospital

Kentaro Tokuoka

Tokai University Hachioji Hospital, Department of Neurology, Japan

O-40 Oral Session 40

Jp

May 21 (Sat) 10:15 ~ 11:45

Room 04 (B Block 7F Hall B7 (2))

## Cerebrovascular disease 7

Chair : Hiroyuki Hashimoto

Division of Stroke & Neurology, Osaka Rosai Hospital

O-40-1 Association Between Pulsatility Index and Cerebral Micro Bleeds in the Acute Lacunar Infarction

Tomomichi Kitagawa

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

O-40-2 Prevalence of the JAK2V617F mutation in patients with cerebrovascular disease

Kei Kaburagi

St.Marianna University school of medicine, Neurology, Japan

O-40-3 P wave terminal force is associated with AF in cryptogenic stroke with ICM implantation

Hajime Ikenouchi

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

**O-40-4** Frequency of PAC is associated with detection rate of AF with ICM in cryptogenic stroke

Yuki Shimada

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

**O-40-5** Therapeutic efficacy of heparin and direct factor Xa inhibitors in cancer-associated stroke with VTE

Genpei Yamaura

Department of Neurology, Fujisawa City Hospital, Japan

**O-40-6** Arterial stiffening is associated with silent cerebral small vessel disease in normotensives

Tomo Miyagi

Department of Cardiovascular Medicine, Nephrology and Neurology, Graduate School of Medicine, University of the Ryukyus, Japan

## O-41 Oral Session 41

En

May 21 (Sat) 10:15 ~ 11:45

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

### Motor neuron disease 3

Chairs : Yuishin Izumi

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

Atsushi Hashizume

Department of Clinical Research Education, Nagoya University Graduate School of Medicine

**O-41-1** A novel quantitative indicator for disease progression rate in amyotrophic lateral sclerosis

Yuko Kobayakawa

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

**O-41-2** HDL cholesterol underlies a missing link between hypermetabolism and the prognosis of ALS

Ryutaro Nakamura

Department of Neurology, Shiga University of Medical Science, Japan

**O-41-3** Quantitative and morphological assessment of CT-depicted gynecomastia in SBMA

Shin Iida

Kansai Medical University Hospital department of neurology, Japan

**O-41-4** Observational study on nusinersen ± cybernic treatment with HAL in patients with SMA

Takashi Nakajima

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

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**O-41-5** Multidisciplinary clinic reduces unscheduled emergency hospitalization for ALS patients

Mari Shibukawa

Department of Neurology, Toho University Faculty of Medicine, Japan

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**O-41-6** Investigation of non-motor symptoms in patients with amyotrophic lateral sclerosis

Takehisa Hirayama

Department of Neurology, Toho University Faculty of Medicine, Japan

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**O-42 Oral Session 42**

**Jp**

May 21 (Sat) 10:15 ~ 11:45

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

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### Parkinsonism and Related disorders 6

Chair : Tomoyuki Uchiyama

International University of Health and Welfare Shioya Hospital

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**O-42-1** withdrawn

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**O-42-2** The clinical image and pathological findings of Bassonn Proteinopathy(4 cases) (1 autopsy case)

Naohiko Togashi

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

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**O-42-3** Features predicting corticobasal degeneration and validation of criteria in corticobasal syndrome

Ikuko Aiba

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

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**O-42-4** Relationship between the severity of SCOPA-AUT and the clinical profiles

Kunihisa Kato

FUJITA HEALTH UNIVERSITY HOSPITAL, Japan

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**O-42-5** Clinical features predicting 4R-tauopathy and validation of criteria in corticobasal syndrome

Yuichi Hayashi

Department of Neurology Gifu University Graduate School of Medicine, Japan

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**O-42-6** Clinical and imaging characteristics of Alzheimer's disease presenting with corticobasal syndrome

Takuya Ataka

Department of Neurology, Oita University, Japan

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**Dementia 3**

Chair : Kyoko Suzuki

Department of Behavioral Neurology and Cognitive Neuroscience

**O-43-1** naPPA: symptoms/prognosis, and the CBF/ dopamine transporter scintigraphy

Mika Otsuki

Faculty of Health Sciences, Hokkaido University Graduate School of Health Sciences, Japan

**O-43-2** Prospective study on the treatment needs of patients with DLB, their caregivers, and their physician

Yuta Manabe

Department of Dementia and Geriatric Medicine, Division of Clinical Science, Kanagawa Dental University School of Dentistry, Japan

**O-43-3** Relationship Between Plasma Neurofilament Light Chain, Gut Microbiota, and Dementia

Naoki Saji

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

**O-43-4** Effects of a glioma in the posterior limb of left internal capsule on agrammatic comprehension

Ryuta Kinno

Department of Basic Science, Graduate School of Arts and Sciences, The University of Tokyo, Japan / Division of Neurology, Department of Internal Medicine, Showa University Northern Yokohama Hospital, Japan

**O-43-5** Clinical features and lesions of buccofacial apraxia in primary progressive aphasia

Keisuke Morihara

Tohoku University Behavioral Neurology and Cognitive Neuroscience, Japan / Yokohama City University Neurology and Stroke medicine, Japan

**O-43-6** Neural mechanisms of foreign accent syndrome: Lesion and network analysis

Yuichi Higashiyama

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

## Neuroimmunology 5

Chair : Shimizu Yuko

Department of Neurology, Tokyo Women's Medical University

**O-44-1** Corpus Callosum Area for Easy Detection of Cognitive Impairment in Multiple Sclerosis

Shun Akaie

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

**O-44-2** Evaluation of the Long-Term Safety and Efficacy of Efgartigimod in Japanese Patients With gMG

Masayuki Masuda

Department of Neurology, Tokyo Medical University, Japan

**O-44-3** Correlation of cognition with QOL, fatigue, and depression in Japanese patients with MS

Masaaki Niino

Department of Clinical Research, NHO Hokkaido Medical Center, Japan

**O-44-4** Exploratory research on therapeutic targets for multiple sclerosis using Patient Reported Outcome

Kenzo Sakurai

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

**O-44-5** Clinical features in patients with clustered attack of neuromyelitis optica spectrum disorders

Satoru Oji

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

**O-44-6** Neutrophil-mediated astrocyte injury in neuromyelitis optica spectrum disorder. A case report.

Saro Kobayashi

Department of Neurology, Dokkyo Medical University, Japan

## Neuromuscular junction disorders

Chair : Hidenori Matsuo

National Hospital Organization Nagasaki National Hospital

**O-45-1** Actual situation of patients with MG: Analysis of 1707 cases from Japan MG registry study 2021

Kimiaki Utsugisawa

Department of Neurology, Hanamaki General Hospital, Japan

- O-45-2** A clinical study of immunocompromised patients with thymoma-associated myasthenia gravis  
Kei Ishizuchi  
Department of Neurology, Keio University School of Medicine, Japan
- O-45-3** Clinical features of Good's syndrome in myasthenia gravis associated with thymoma  
Saki Nakashima  
Department of Neurology, University of Tokyo Hospital, Japan
- O-45-4** Changes of anti-acetylcholine receptor antibody titers and relapse rate in myasthenia gravis  
Hiroto Kodera  
Department of Neurology, Nippon Medical School Hospital, Japan
- O-45-5** Th17-related cytokines in the pathogenesis of anti MuSK antibody-positive myasthenia gravis  
Manato Yasuda  
Department of Neurology, Graduate School of Medicine, Chiba University, Japan
- O-45-6** Standardization of treatment targets for myasthenia gravis: Analyzing data from a multicenter study  
Genya Watanabe  
Department of Neurology, National Hospital Organization Sendai Medical Center, Japan

**O-46 Oral Session 46****En**

May 21 (Sat) 10:15 ~ 11:45

Room 10 (Glass Building 4F G409)

**Peripheral neuropathy and Metabolic disorders 3**

Chairs : Shigeki Hirano

Department of Neurology, Graduate School of Medicine, Chiba University

Hidenori Ogata

Department of Neurology, Kyushu University Hospital

- O-46-1** Autocrine TNF- $\alpha$  increases penetration of MAG antibodies across the BNB in MAG neuropathy  
Ryota Sato  
Department of Neurology and Clinical Neuroscience, Yamaguchi University Graduate School of Medicine, Japan
- O-46-2** Zonisamide alleviates oxaliplatin-induced DRG neuron death in vitro  
Kazunori Sango  
Diabetic Neuropathy Project, Tokyo Metropolitan Institute of Medical Science, Japan
- O-46-3** Neurofilament light chain levels in cerebrospinal fluid are markedly increased in cerebral ALD  
Toshiyuki Kakumoto  
Department of Neurology, The University of Tokyo Hospital, Japan

O-46-4 Brain perfusion covariate pattern and pain-related evoked potentials in diabetic painful neuropathy

Shigeki Hirano

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

O-46-5 Development of standardized ELISA kits for IgG4 anti-neurofascin 155 and anti-contactin-I antibodies

Hidenori Ogata

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

O-46-6 Clinicopathological spectrum of idiopathic hypereosinophilic syndrome-related neuropathy

Hiroki Takeuchi

NHO Minami Kyoto Hospital, Japan

O-47 Oral Session 47

En

May 21 (Sat) 10:15 ~ 11:45

Room 11 (Glass Building 7F G701)

## Clinical Neurophysiology 2

Chairs : Nobuyuki Hirota

Department of Neurology, Hirakata Kohsai Hospital

Hiroyuki Nodera

Neuromuscular disease center, Tenri Hospital

O-47-1 EEG background activity in cortical myoclonus: reappraisal of spiky alpha as a biomarker candidate

Maya Tojima

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

O-47-2 Audio-frequency-based machine learning can differentiate motor unit potentials in needle EMG

Komei Shimozono

Department of Neurology, Tenri Hospital, Japan

O-47-3 Excitatory/inhibitory balance to and from seizure onset zone varies among brain lobes in epilepsy

Masaya Togo

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

O-47-4 Machine-learning-based classification of resting EMG potentials utilizing audio pitch information

Hiroyuki Nodera

Department of Neurology, Tenri Hospital, Japan

O-47-5 Takahata study 2021, Part I: Gait analysis of elderly residents assessed by iOS applications

Toshiyuki Kondo

Division of Neurology and Clinical Neuroscience, Department of Internal Medicine 3rd, Yamagata University School of Medicine, Japan

O-47-6

Peripheral nerve electric stimulation modulates QPS-induced LTD-like effect in the motor cortex

Takenobu Murakami

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