### O-01 Oral Session 01

**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  
  Takaichi 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
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

O-02 Oral Session 02
Peripheral Neuropathy 1 E

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

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

O-02-3 Investigation on the site of action of immunoglobulin as an immune-modulator
Masahiro Iijima
Division of Advanced Medicine, Nagoya University, Japan / Department of Neurology, Nagoya University Graduate School of Medicine, Japan

O-02-4 Brachial plexus involvements in patients with ALS and CIDP: MR neurography study
Tomomasa Ishikawa
Department of Neurology, Fujita Health University School of Medicine, Japan

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

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

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
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
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
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® for Amyotrophic lateral sclerosis patients
Kiyoko Murata
Department of Neurology, Toho University Faculty of Medicine, Japan

O-05 Oral Session 05

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
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

★ Nominees for the Best Presentation Award for the International Participants
O-05-6  The involvement of hypoxia stress in amyotrophic lateral sclerosis: in vivo imaging of HIF-1α
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

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⁺ 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

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
<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
<th>Affiliations</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-07-7</td>
<td>Clinical features of anti-MOG antibody associated diseases - a report of 4 cases</td>
<td>Yuka Chin</td>
<td>Department of Neurology, Tokai University Hachioji Hospital</td>
</tr>
<tr>
<td>O-07-8</td>
<td>Radiographic and clinical features of tumefactive demyelinating disease with anti-MOG antibody</td>
<td>Takahiro Mori</td>
<td>Department of Neurology and Neurological Science, Tokyo Medical and Dental University</td>
</tr>
<tr>
<td>O-07-9</td>
<td>Presence of anti KIR4.1 autoantibodies in MS : systematic review</td>
<td>Michie Imamura</td>
<td>Department of Neurology, Graduate School of Medical Sciences, Kumamoto University</td>
</tr>
<tr>
<td>O-07-10</td>
<td>National Survey of Autoimmune Encephalitis: Analysis of VGKC Complex Antibody</td>
<td>Mariko Oishi</td>
<td>Department of Neurology and Clinical Neuroscience, Yamaguchi University Graduate School of Medicine</td>
</tr>
</tbody>
</table>

### O-08 Oral Session 08

**Neurogenetics / Gene therapy 1 E**

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
<th>Affiliations</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-08-1</td>
<td>Systemic injection of a peptide drug ameliorates the dystrophic phenotype in DMD model mice</td>
<td>Yoshihide Sunada</td>
<td>Kawasaki Medical School, Department of Neurology, Japan</td>
</tr>
<tr>
<td>O-08-2</td>
<td>Slipped-CAG DNA binding small molecule induces trinucleotide repeat contractions in vivo</td>
<td>Masayuki Nakamori</td>
<td>Department of Neurology, Osaka University Graduate School of Medicine, Japan</td>
</tr>
<tr>
<td>O-08-3</td>
<td>Development of BBB-penetrating heteroduplex oligonucleotides (HDO)</td>
<td>Takanori Yokota</td>
<td>Tokyo Medical and Dental University, Japan</td>
</tr>
<tr>
<td>O-08-4</td>
<td>Treatment for FAP with overhanging heteroduplex oligonucleotides by transferrin-mediated delivery</td>
<td>Kotaro Yoshioka</td>
<td>Department of Neurology and Neurological Science, Tokyo Medical and Dental University, Japan</td>
</tr>
<tr>
<td>O-08-5</td>
<td>The involvement of humanin in development of Parkinson’s disease</td>
<td>Adrianna Wasinska</td>
<td>Jagiellonian University Medical college, Poland</td>
</tr>
<tr>
<td>O-08-6</td>
<td>Reduction of mRNA aggregation in myotonic dystrophy by CRISPR interference</td>
<td>Fumiaki Saito</td>
<td>Teikyo University, Department of Neurology, Japan</td>
</tr>
</tbody>
</table>
**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**

**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
Clinical features of X-linked myopathy with excessive autophagy (XMEA) in Japan: A nationwide survey
Kazuma Sugie
Department of Neurology, Nara Medical University

Awareness of dysphagia in adult patients with muscular dystrophy
Toshiyuki Yamamoto
Department of Neurology, National Center Hospital, National Center of Neurology and Psychiatry

Search for diagnostic markers of 2 cases of immune checkpoint inhibitors-induced myositis
Atsushi Hara
Division of Neurology, Kobe University Graduate School of Medicine

Transitional Medicine and Muscular Dystrophy
Madoka Mori-yoshimura
Department of Neurology, National Center Hospital, National Center of Neurology and Psychiatry

syndrome with posterior cervical pain, diplopia, dizziness (vertigo) improved by fascia hydrorelease
Jun-ichi Inobe
Inobe Hospital Neurology

Molecular epidemiology of spinocerebellar degeneration based on J-CAT
Yuka Hama
Department of Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Japan

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

Endothelial cells regulates cognitive function through communication with hippocampal neurons
Feng Han
College of Pharmacy, Nanjing Medical University, China

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
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 Hosipital

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

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  (APe-01-2)  Presurgical motor and language mapping by navigated transcranial stimulation and functional MRI  
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
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

Fully automated immunoassay system to measure plasma biomarkers for Alzheimer's disease
Kazuto Yamashita
Sysmex Corporation, Japan

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

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

Positive association between cognitive function and cerebrospinal fluid orexin A levels in AD
Soichiro Shimizu
Tokyo Medical University, Geriatric Medicine, Japan

Evaluation of 20 years of CJD surveillance in Hokkaido, the northern island of Japan
Shinsuke Hamada
Hokuyukai Neurological Hospital, Japan

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

Observational study on nusinersen±cybernic treatment with HAL® for gait function in patients with SMA
Takashi Nakajima
Department of Neurology, National Hospital Organization Niigata National Hospital, Japan

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
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

- 123 -
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

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
New method for the assessment of atrial function using magnetocardiography in ESUS patients
Hajime Ikenouchi
National Cerebral and Cardiovascular Center, Neurology

Analysis of cryptogenic stroke with patent foramen ovale
Hidetaka Mitsumura
Department of Neurology, The Jikei University School of Medicine

The distribution of DWI in striatocapsular infarction considering the lenticulostriate artery course
Yasumasa Yamamoto
Kyoto Katsura Hospital

Results of interim analysis using insertable cardiac monitors in cryptogenic stroke
Ryosuke Doijiri
Department of Neurology, Iwate Prefectural Central Hospital, Morioka, Iwate, Japan

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

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

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

MRI characteristic of seventy nine consecutive patient with transient global amnesia
Kunihsa Kato
Department of Neurology, Fujita Health University School of Medicine

Astrocyte imaging in Neuromyelitis Optica by acetate PET
Toru Koda
Department of Neurology, Osaka University Graduate School of Medicine

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

**O-17 Oral Session 17**

**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 |
Current status of medical collaborations for neurodegenerative
diseases in Secondary medical zone
Yu Kono
Department of Neurology, Fuji city general hospital

Development and issues of "Arao One Team Notebook" including
stroke and intractable diseases
Toshinori Oshima
Department of Neurology, Arao Munisipal Hospital

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

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

Cerebellar ataxia with neuropathy and vestibular areflexia syndrome:
a clinical and genetic study
Mai Tsuchiya
Department of Neurology, University of Yamanashi

Screening for NOTCH3 mutations among patients with lacunar
infarctions
Takashi Okada
Department of Neurology, National Cerebral and Cardiovascular Center

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

Evaluation of sural nerve activity using a magnetoneurography
Yuki Mitani
Healthcare Business Group, RICOH Company, Ltd.

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
Parkinsonism and Related disorders (basic research) E

O-19-1 withdrawn
O-19-2 withdrawn
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

Serum zinc, vitamin B1 and folate decrease in Parkinson's disease with sleep attack
Shuro Kogawa
Kohka public hospital, Department of Neurology, Japan

Novel Drosophila model for Parkinson's disease by targeting phosphoglycerate kinase
Takashi Kasai
Department of Neurology, Kyoto Prefectural University of Medicine, Japan

ATP13A2/PARK9 protects brains from a-synuclein propagation
Taiji Tsunemi
Department of Neurology, Juntendo University School of Medicine, Japan

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

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

Phenotypic skew of circulating follicular helper T cells in Double Seronegative Myasthenia gravis
Shinji Ashida
Department of Neurology, Kyoto Prefectural University of Medicine, Japan

Suitable indications of eculizumab for patients with refractory generalized myasthenia gravis
Munenori Oyama
Department of Neurology, Keio University School of Medicine, Japan

The Clinical Features of Myasthenia Gravis in Japan from the National Epidemiological Survey 2018
Hiroaki Yoshikawa
Kanazawa University, Health Service Center, Japan
<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Author</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-20-4</td>
<td>Diagnosis of LEMS and MG overlap or borderline cases</td>
<td>Yuki Hatanaka</td>
<td>Department of Neurology, Teikyo Medical University Hospital, Japan</td>
</tr>
<tr>
<td>O-20-5</td>
<td>withdrawn</td>
<td></td>
<td></td>
</tr>
<tr>
<td>O-20-6</td>
<td>withdrawn</td>
<td></td>
<td></td>
</tr>
<tr>
<td>O-20-7</td>
<td>Unique pathomechanisms of nuclear envelope myopathy</td>
<td>Yukiko Hayashi</td>
<td>Department of Pathophysiology, Tokyo Medical University, Japan</td>
</tr>
<tr>
<td>O-20-8</td>
<td>Cricopharyngeal bar in inclusion body myositis: A red flag</td>
<td>Kenichiro Taira</td>
<td>Department of Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Japan</td>
</tr>
<tr>
<td>O-20-9</td>
<td>Clinical features of inclusion body myositis associated with Sjögren's syndrome</td>
<td>Satoshi Yamashita</td>
<td>Department of Neurology, Graduate School of Medical Sciences, Kumamoto University, Japan</td>
</tr>
<tr>
<td>O-20-10</td>
<td>Relationship between verbal IQ and gene mutation in patients with Duchenne muscular dystrophy</td>
<td>Hajime Arahata</td>
<td>National Hospital Organization Omuta National Hospital, Japan</td>
</tr>
</tbody>
</table>

**O-21 Oral Session 21**

**Cerebrovascular disease (clinical research 3) E**

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Author</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-21-1</td>
<td>A novel vaccine against S100A9 prevented thrombus formation in cynomolgus monkey</td>
<td>Munehisa Shimamura</td>
<td>Department of Neurology, Osaka University Graduate School of Medicine, Japan / Department of Health Development and Medicine, Osaka University Graduate School of Medicine, Japan</td>
</tr>
<tr>
<td><strong>O-21-2</strong></td>
<td>Wnt signaling is associated with hemorrhagic transformation after intravenous thrombolysis</td>
<td>Junlei Chang</td>
<td>Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China</td>
</tr>
<tr>
<td>(APe-01-6)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>O-21-3</td>
<td>CRP: strong exacerbation predictor in acute ICA/M1O patients who underwent recanalization</td>
<td>Junichi Uemura</td>
<td>Department of Stroke Medicine,Kawasaki Medical School General Medical Center, Japan / Department of Stroke Medicine, Kawasaki Medical School, Japan</td>
</tr>
<tr>
<td>O-21-4</td>
<td>Stroke incidence in super elderly patients taking direct oral anticoagulants</td>
<td>Taizen Nakase</td>
<td>Stroke Comprehensive Medical Center, Akita University Hospital, Japan</td>
</tr>
</tbody>
</table>
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
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
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
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**

**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  
Okinanwa 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 amnestic 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**

**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 Negishii  
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

**Neuropathology E**

**O-27-1**  Microglial pathology in FTLD-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
The first patient with pathologically-definite ATXN8OS-associated amyotrophic lateral sclerosis
Makito Hirano
Department of Neurology, Kindai University Faculty of Medicine, Japan

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

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

Ultrastructure of macrophage-induced demyelination in Guillain-Barré syndrome
Haruki Koike
Department of Neurology, Nagoya University Graduate School of Medicine, Japan

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

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

Clinical features in pathologically confirmed CBD and PSP presenting CBS
Ikuko Aiba
Department of Neurology, National Hospital Organization Higashinagoya National Hospital, Japan

Motor cortical metaplasticity induced by quadripulse stimulation over the primary motor motor area
Naohiko Togashi
Department of Neurology, National Hospital Organization Sagamihara Hospital

The utility of ultrasonography in the diagnosis of CIDP
Yukari Sekiguchi
JR Tokyo General hospital
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
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-I-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
### O-30 Oral Session 30

**Headache and Sleep disorder**

<table>
<thead>
<tr>
<th>O-30-1</th>
<th>A survey of clinical symptoms with chronic cluster headache in a Japanese regional headache center</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shoji Kikui</td>
<td>Department of Neurology, Tominaga hospital</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>O-30-2</th>
<th>Effectiveness of the Kampo medicine Yokukansan for patients with migraine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hisanao Akiyama</td>
<td>Department of Neurology, St. Marianna University School of Medicine</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>O-30-3</th>
<th>Clinical features of migraine patients in our headache clinic (including HIT-6)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tsubasa Takizawa</td>
<td>Department of Neurology, Keio University School of Medicine</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>O-30-4</th>
<th>Clinical characteristics of migraine aura without headache</th>
</tr>
</thead>
<tbody>
<tr>
<td>Takemori Yamawaki</td>
<td>Hiroshima City Hiroshima Citizens Hospital</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>O-30-5</th>
<th>Cognitive function and outcome in patients with idiopathic REM sleep behavior disorder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Masayuki Miyamoto</td>
<td>Department of Clinical Medicine for Nursing Dokkyo Medical University School of Nursing / Department of Neurology Dokkyo Medical University Hospital</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>O-30-6</th>
<th>Evaluation of the social burden of migraine patients in Japan: Analysis of a population-based survey</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hisaka Igarashi</td>
<td>Headache Care Unit, Department of Internal Medicine, Fujitsu Clinic</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>O-30-7</th>
<th>The usefulness of RI cisternography with SPECT/CT on diagnostic imaging of CSF hypovolemia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Takashi Mitsufuji</td>
<td>Department of Neurology, Saitama medical school</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>O-30-8</th>
<th>The relationship between cranial autonomic symptoms and central sensitization in migraine patients</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daisuke Danno</td>
<td>Headache center, Department of Neurology, Tominaga hospital</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>O-30-9</th>
<th>Abdominal pain attacks in migraine patients persist after middle age</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ryosuke Fukazawa</td>
<td>Department of Neurology, Saiseikai Shiga Hospital</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>O-30-10</th>
<th>Study of risk factors for headache after the Great East Japan Earthquake during 2012-2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yasuhiro Ishibashi</td>
<td>Neurology, Kitakami Saiseikai hospital</td>
</tr>
</tbody>
</table>
O-31 Oral Session 31

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
<table>
<thead>
<tr>
<th>O-32-1</th>
<th>Small vessel burden and cognitive decline in minor ischemic stroke or TIA cohort: HAGAKURE study</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Yuki Hoshino</td>
</tr>
<tr>
<td></td>
<td>Division of Neurology, Department of Internal Medicine, Saga University Faculty of Medicine</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>O-32-2</th>
<th>Association between JAK2 gene mutation and cerebrovascular disease in myeloproliferative neoplasms</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Naoki Oyama</td>
</tr>
<tr>
<td></td>
<td>Department of Stroke Medicine, Kawasaki Medical School</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>O-32-3</th>
<th>withdrawn</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>O-32-4</th>
<th>Efficacy and safety of Heparin Calcium to prevent recurrence of stroke with cancer</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Takeshi Iwanaga</td>
</tr>
<tr>
<td></td>
<td>Department of Stroke Medicine, Okayama red cross hospital / Department of Stroke Medicine, Kawasaki Medical School</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>O-32-5</th>
<th>Urinary Immunoglobulin G is Associated with Brain Microbleeds in Acute Ischemic Stroke Patients</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Teppei Komatsu</td>
</tr>
<tr>
<td></td>
<td>the Jikei University School of Medicine, department of Neurology</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>O-32-6</th>
<th>Characteristics of cerebral microbleeds in patients with acute intracerebral hemorrhage</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Kazuo Yamashiro</td>
</tr>
<tr>
<td></td>
<td>Department of Neurology, Juntendo University School of Medicine</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>O-32-7</th>
<th>Periodontitis and cerebral small vessel disease in acute stroke patients</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Kenichiro Sakai</td>
</tr>
<tr>
<td></td>
<td>The JIKEI University School of Medicine, Department of Neurology</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>O-32-8</th>
<th>Clinical characteristics, anticoagulation, and prognosis of cancer-associated ischemic stroke</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Tenyu Hino</td>
</tr>
<tr>
<td></td>
<td>Department of Stroke, University of Tsukuba Hospital</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>O-32-9</th>
<th>Modified scoring systems using new parameters based on the STAF in patients with ischemic stroke</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Shohei Imanaka</td>
</tr>
<tr>
<td></td>
<td>Kitanos hospital, Tazuke Kofukai medical research institute</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>O-32-10</th>
<th>Clinical features of 14 cerebral infarction patients with Trousseau syndrome in our hospital</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hirotomo Suehiro</td>
</tr>
<tr>
<td></td>
<td>Division of Neurology, Kobe University Graduate School of Medicine</td>
</tr>
<tr>
<td>O-33-1</td>
<td>DPAA exposure may promote brain aging</td>
</tr>
<tr>
<td>--------</td>
<td>--------------------------------------</td>
</tr>
<tr>
<td>Kazuhiro Ishii</td>
<td></td>
</tr>
<tr>
<td>Department of Neurology, University of Tsukuba Hospital</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>O-33-2</th>
<th>Usefulness of DaT-SPECT in discrimination of idiopathic normal pressure hydrocephalus (iNPH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nobutoshi Morimoto</td>
<td></td>
</tr>
<tr>
<td>Department of Neurology, Kagawa Prefectural Central Hospital</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>O-33-3</th>
<th>Comparative Studies between Therapeutic Experiment using Wobbler Mouse and RCT in ALS patients</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ken Ikeda</td>
<td></td>
</tr>
<tr>
<td>Department of Neurology, Toho University Omori Medical Center</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>O-33-4</th>
<th>FIREFISH Part 2: Efficacy and safety of risdiplam in infants with Type 1 spinal muscular atrophy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yasuhiro Takeshima</td>
<td></td>
</tr>
<tr>
<td>Department of Pediatrics, Hyogo College of Medicine</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>O-33-5</th>
<th>Possibility of Regenerative Associate Cells as the novel therapy of acute cerebral infarction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shizuka Netsu</td>
<td></td>
</tr>
<tr>
<td>Tokai University School of Medicine Oiso Hospital, Neurology Department</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>O-33-6</th>
<th>SUNFISH Part 2: Efficacy and safety of risdiplam in patients with Type 2 or non-ambulant Type 3 SMA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kayoko Saito</td>
<td></td>
</tr>
<tr>
<td>Institute of Medical Genetics, Tokyo Women’s Medical University</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>O-33-7</th>
<th>Time savings effect of acute stroke team and system-modification for mechanical thrombectomy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hidekazu Yamazaki</td>
<td></td>
</tr>
<tr>
<td>Department of Neurology and Cerebrovascular treatment, Yokohama Shintoshi Neurosurgical hospital, Yokohama, Japan</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>O-33-8</th>
<th>A Phase 2 Study of Galcanezumab in Japanese Patients with Episodic Migraine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Atsushi Kuga</td>
<td></td>
</tr>
<tr>
<td>Eli Lilly Japan K.K., Kobe, Japan</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>O-33-9</th>
<th>Possibility of image interpretation by AI in cerebral infarction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kenzo Sakurai</td>
<td></td>
</tr>
<tr>
<td>Department of Neurology, Kawasaki Municipal Tama Hospital</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>O-33-10</th>
<th>Self-assemble polydopamine nanoparticles for high-performance Parkinson's disease drug</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yukio Nagasaki</td>
<td></td>
</tr>
<tr>
<td>Graduate School of Pure and Applied Sciences, University of Tsukuba, Japan / Graduate School of Comprehensive Human Sciences, University of Tsukuba, Japan</td>
<td></td>
</tr>
</tbody>
</table>
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

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 (APe-01-8)  CRTC1-regulated microRNA-132/212 plays a vital role in stroke mediated by vascular function
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

Cerebrovascular disease (clinical research 6)

O-36-1 withdrawn
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

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

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

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

O-36-6  Development of an ICT system to support a collaborative approach to acute stroke care
Shoji Matsumoto
Department of Comprehensive Strokology, Fujita Health University School of Medicine

O-36-7  Endovascular therapy for juvenile cerebral infraction
Yuji Nishi
Department of Neurological Science, Graduate School of Medicine, Nippon Medical School

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

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

O-36-10 Construction of a medical system for hyperacute cerebral infarction
Kenichi Sakuta
Department of Neurology, Kashiwa Hospital, Jikei University School of Medicine
O-37 Oral Session 37

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® 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
<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-37-10</td>
<td>Medical complications of patients with stroke in the rehabilitation</td>
<td>Chizuru Akimoto</td>
<td>Tochigi Rehabilitation Center / Jichi Medical University</td>
</tr>
<tr>
<td></td>
<td>hospital</td>
<td></td>
<td></td>
</tr>
<tr>
<td>O-38</td>
<td>Oral Session 38</td>
<td></td>
<td></td>
</tr>
<tr>
<td>O-38-1</td>
<td>Dementia (clinical research 2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Modifiable Lifestyle Factors and Cognitive Function in Older People</td>
<td>Noriyuki Kimura</td>
<td>Department of Neurology, Oita University, Faculty of Medicine</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>O-38-2</td>
<td>What clinically affects the cognitive functions maintained in the</td>
<td>Yoshinori Nishimoto</td>
<td>Center for Supercentenarian Medical Research, Keio University, School of Medicine</td>
</tr>
<tr>
<td></td>
<td>healthy very olds?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>O-38-3</td>
<td>Early-onset Alzheimer disease in Down syndrome</td>
<td>Chisen Takeuchi</td>
<td>Department of Neurology, Tokyo Metropolitan Kita Medical and Rehabilitation Center for the Disabled</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>O-38-4</td>
<td>Evaluation of Parkinsonism in 6 patients of Neuronal intranuclear</td>
<td>Hirokazu Furuya</td>
<td>Department of Neurology, Kochi Medical School, Kochi University</td>
</tr>
<tr>
<td></td>
<td>inclusion disease (NIID)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>O-38-5</td>
<td>Issue of 'dementia, delirium support team to treat'</td>
<td>Sachiko Misumi</td>
<td>Department of nursing, Osaka Neurological Institute</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>O-38-6</td>
<td>Withdrawal syndrome after donepezil cessation in patients with</td>
<td>Asako Ueno</td>
<td>University of Fukui Hospital</td>
</tr>
<tr>
<td></td>
<td>dementia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>O-38-7</td>
<td>Examinations of hyperactive delirium in the patients with dementia</td>
<td>Wakoh Takahashi</td>
<td>Department of Neurology, Tokai University Oiso Hospital</td>
</tr>
<tr>
<td></td>
<td>admitted by physical disorders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>O-38-8</td>
<td>Ultrasound assessment of Vascular Endothelial Function in</td>
<td>Kensuke Senzaki</td>
<td>Department of Neurology and Geriatric Medicine, Ehime University Graduate School of Medicine</td>
</tr>
<tr>
<td></td>
<td>Neurological disorders</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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

O-38-10 Age difference in the cut-off value of ClScore
Hirotatsu Uchida
Department of Neurology, Faculty of Medicine, Oita University

O-39 Oral Session 39
Neuroscience 2 E

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

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

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

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

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

O-39-6 Clioquinol reduces oligomeric Tau
Tadanori Hamano
Department of Neurology, University of Fukui, Japan

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
Clinical and experimental studies of a novel K510Q FUS mutation in young-onset ALS
Deng Jianwen
Peking University First Hospital, China

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

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

Neuroimmunology 4 E

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

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

Neurons promote CD4+ cells infiltration in experimental autoimmune encephalomyelitis via CCL2
Yuki Nakazato
Department of Internal Medicine, Division of Neurology, Respirology, Endocrinology, and Metabolism, Department of Internal Medicine, Faculty of Medicine, University of Miyazaki, Japan

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

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
Parkinsonism and Related disorders (clinical research 4)

O-41-1  Corticobasal Syndrome in a Patient with Anti-IgLON5 Antibodies
Kimiharu 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
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

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

O-41-8  Atypical Parkinsonian Disorders and Epilepsy
Hitoshi Mori
Department of Neurology, Kurashiki Central Hospital

O-41-9  Inter-large-scale network alteration in Parkinson's disease with high impulsivity
Jinsoo Koh
Department of Neurology, Wakayama Medical University

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

O-42 Oral Session 42

Miscellaneous

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

O-42-2  Clinical Features of Central Nervous System Lymphoma
Chika Honjo
Department of neurology, Tenri Hospital

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

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

O-42-5  Effect of deep brain stimulation on refractory Tourette syndrome
Nobutaka Takahashi
Department of Neurology, Fukuoka University Hospital
2 cases of multisegmental amyotrophy secondary to cerebrospinal fluid leak
Satoko Ninomiya
Department of Neurology, Sumitomo Hospital

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

Poor physical condition with the weather change
Tsukasa Kudeken
Setagaya internal medicine neurology clinic

Consideration on neurosyphilis and spa treatment in RAKUGO, traditional Japanese comical monologue
Shuuichi Nagamatsu
Department of Neurology, Kochi Medical School, Kochi University