O-01 Oral Session 01

May 31 (Wed) 15:35 ~ 17:05  Room 03 (Makuhari Messe International Conference Hall 2F 201)

Parkinsonism and Related disorders 1

Chairs: Chin-Hsien Lin
National Taiwan University Hospital, Taiwan
Mutsumi Iijima
Tokyo Women’s Medical University, Japan

O-01-1  Association between oculomotor impairment and PET-detectable tau pathologies in PSP patients
Yuko Kataoka
Department of Functional Brain Imaging, Institute for Quantum Medical Science, Quantum Life and Medical Science Directorate, National Institutes for Quantum Science and Technology (QST), Japan

O-01-2  Amyloid-beta42 and tau in cerebrospinal fluid as biomarkers for Progressive Supranuclear Palsy
Hiroshi Takigawa
Division of Neurology, Department Brain and Neurosciences, Tottori University, Japan

O-01-3  Factors associated with long-term progression of day time sleepiness in Parkinson’s disease
Haruhi Sakamaki-tsukita
Department of Neurology, Graduate School of Medicine, Kyoto University, Japan

O-01-4  MIBG cardiac scintigraphy may detect Frontal dysfunction in Parkinson’s disease
Hanna Okada
Department of Neurology, Juntendo University Faculty of Medicine, Japan

O-01-5  Low risk of catching a common cold in Parkinson’s disease patients: Propensity score matching
Shuichiro Neshige
Department of Clinical Neuroscience and Therapeutics, Hiroshima University Graduate School of Biomedical and Health Sciences, Japan

O-01-6  Clinical availability of eye movement during reading
Yasuhiro Watanabe
Division of Neurology, Department of Brain and Neurosciences, Faculty of Medicine, Tottori University, Japan

O-02 Oral Session 02

May 31 (Wed) 15:35 ~ 17:05  Room 04 (Makuhari Messe International Conference Hall 3F 301)

Neuromuscular junction disorders

Chair: Kiyokazu Kawabe
Department of Neurology Saiseikai Yokohama Tobu Hospital, Japan

O-02-1  Changes in the clinical picture of myasthenia gravis -National Epidemiological Survey 2006 and 2018-
Hiroaki Yoshikawa
Kanazawa University Health Service Center, Japan
O-02-2  Myasthenia gravis treatment and outcomes over time - insights from the Japan MG Registry study 2021
Yosuke Onishi
Department of Neurology, Chiba University Graduate School of Medicine, Japan

O-02-3  Analyses of refractory myasthenia gravis in Japan
Akihiro Taira
Department of Neurology, International University of Health and Welfare, Japan

O-02-4  CD59 Expression in Skeletal Muscles and its Role in Myasthenia Gravis
Kazuo Iwasa
Department of Health and Medical Sciences, Ishikawa Prefectural Nursing University, Japan / Department of Neurology, Kanazawa University Graduate School of Medical Science, Japan

O-02-5  Clinical features of adult myasthenia gravis with age of onset <50 years by age group
Manato Yasuda
Department of Neurology, Graduate School of Medicine, Chiba University, Japan

O-02-6  Myasthenia gravis disease burden and impact on social life from the perspective of 452 patients
Naoki Kawaguchi
Neurological Center, Neurology Chiba Clinic, Japan

O-03 Oral Session 03

May 31 (Wed) 15:35 ~ 17:05 Room 05 (Makuhari Messe International Conference Hall 3F 304)

Cerebrovascular disease 1

Chairs: Kazuo Kitagawa
Tokyo Women’s Medical University, Department of Neurology, Japan
Eiichiro Nagata
Department of Neurology, Tokai University School of Medicine, Japan

O-03-1  Impact of blood viscosity on wake-up stroke
Motohiro Okumura
Department of Neurology, The Jikei University School of Medicine, Japan

★ O-03-2  (APe-01-7)  Pons hyperintensity is associated with ischemic damage of middle cerebellar peduncle in CADASIL
Haotian Yan
Department of Neurology, Peking University First Hospital, China

O-03-3  Histogram analysis: new methods for diagnosing CADASIL
Daiki Fukunaga
Department of Neurology, Graduate School of Medical Science, Kyoto Prefectural University of Medicine, Japan

O-03-4  SARS-CoV-2 Infection Might be a Predictor of Mortality in Intracerebral Hemorrhage
Ashkan Mowla
University of Southern California, USA
O-03-5  Association between small plaque lesions on CT angiography and ESUS
Junpei Nagasawa
Department of Neurology, Toho University Faculty of Medicine, Japan

O-03-6  Association between cerebral small vessel disease and prehospital delay in acute ischemic stroke
Marina Masui
Department of Neurology, The Jikei University School of Medicine, Tokyo, Japan

O-04 Oral Session 04
May 31 (Wed) 15:35 ~ 17:05  Room 06 (Makuhari Messe International Conference Hall 3F 302)

Neuroscience
Chairs: Shigeki Arawaka
Department of Internal Medicine IV, Division of Neurology, Osaka Medical and Pharmaceutical University, Japan
Yohei Misumi
Department of Neurology, Kumamoto University, Japan

O-04-1  Lysophagy protects against propagation of alpha-synuclein aggregation via lysosomal vesicle rupture
Keita Kakuda
Department of Neurology, Osaka University, Japan

O-04-2  Phosphorylated JIP4 mediates lysosomal clustering and autophagy in response to oxidative stress
Yukiko Sasazawa
Research Institute for Diseases of Old Age, Juntendo University Graduate School of Medicine, Japan

O-04-3  Neuronal activity drives autophagic secretion of α-synuclein [Encore Presentation]
Yoshitsugu Nakamura
Osaka Medical and Pharmaceutical University, Japan

O-04-4  Analysis on binding of serum-derived amyloid-associated proteins to amyloid fibrils
Yohei Misumi
Department of Neurology, Kumamoto University, Japan

O-04-5  Functional analysis of potential target molecules related to BBB breakdown in multiple sclerosis
Kinya Matsuo
Yamaguchi university graduate school of medicine, Japan

O-04-6  Involvement of LacNAc in HTLV-1 cell-to-cell contact infection and the discovery of its inhibitors
Daisuke Kodama
The Joint Research Center for Human Retrovirus Infection, Kagoshima University Campus, Division of Neuroimmunology, Japan
O-05-1 Exosome GJA1-29k is a blood marker for progressive multiple sclerosis reflecting glial inflammation
Maimaitijiang Guzailiayi
Translational Neuroscience Center, Graduate School of Medicine, International University of Health and Welfare, Okawa, Japan

O-05-2 Microstructural myelin abnormality of normal-appearing white matter in multiple sclerosis
Haruhiko Motegi
Department of Neurology, Keio University School of Medicine, Japan / Department of Neurology, The Jikei University School of Medicine, Japan

O-05-3 High-efficacy therapy reduces brain volume loss in Japanese patients with multiple sclerosis [Encore Presentation]
Hiroaki Yokote
Tokyo Metropolitan Cancer and Infectious Diseases Center Komagome Hospital, Japan / Tokyo Medical and Dental University, Japan

O-05-4 Serum glial fibrillary acidic protein is useful to predict multiple sclerosis disability progression
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-05-5 Progressive brain white matter atrophy in NMOSD: an MRI volumetric study
Hiroki Masuda
Department of Neurology, Graduate School of Medicine, Chiba University, Japan

O-05-6 A retrospective study of 335 patients with cerebellar ataxia
Akihiko Kudo
Neurology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Japan
Clinical trial and Regenerative medicine

**O-06-1**  Ropinirole hydrochloride suppresses cholesterol synthetic pathway in ALS spinal motor neurons

Shinichi Takahashi  
Department of Physiology, Keio University School of Medicine, Japan / Department of Neurology, Keio University School of Medicine, Japan / Department of Neurology and Stroke, Saitama Medical University International Medical Center, Japan

**O-06-2**  Long-Term Treatment With Lasmiditan in Patients With Migraine: Results From the CENTURION Study [Encore Presentation]  
Mika Komori  
Eli Lilly Japan. K.K., Japan

**O-06-3**  Efficacy of Rituximab in CIDP With IgG4 Autoantibodies by Patient-Proposed Healthcare Services  
Yuki Fukami  
Department of Neurology, Nagoya University Graduate School of Medicine, Japan

**O-06-4**  Rozanolixizumab in muscle-specific kinase antibody-positive myasthenia gravis: Phase 3 outcomes [Encore Presentation]  
Kimiaki Utsugisawa  
Department of Neurology, Hanamaki General Hospital, Japan / MycarinG Study investigators, Other country

**O-06-5**  Long-term safety and efficacy of efgartigimod in patients with gMG: interim results from ADAPT-SC+  
Akiyuki Uzawa  
Chiba University Hospital, Neurology, Japan

**O-06-6**  Improving the efficiency of clinical research on spondylosis by introducing blockchain technology  
Hiroya Kuwahara  
Department of Neurology and Neurological Science, Tokyo Medical and Dental University, Japan / Medical Innovation Promotion Center, Tokyo Medical and Dental University, Japan

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Dementia 1

**O-07-1**  withdrawn
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<tr>
<td>O-07-2</td>
<td>Impact of Atrial Fibrillation on Cognitive Impairment in Dementia Patients</td>
<td>Taizen Nakase</td>
<td>Dept. of Aging Research &amp; Geriatric Medicine, IDAC, Tohoku Univ., Japan</td>
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<tr>
<td>O-07-3</td>
<td>Gait analysis under dual task paradigms in patients with mild cognitive impairment and mild dementia</td>
<td>Chia Rung Hsu</td>
<td>Department of Neurology, Shuang Ho Hospital, Taipei Medical University, New Taipei, Taiwan</td>
</tr>
<tr>
<td>O-07-4</td>
<td>Risk of Dementia in Patients Receiving Non-Vitamin K Antagonist Oral Anticoagulants: A Meta-Analysis</td>
<td>Hsu Jin-yi</td>
<td>Center for Aging and Health, Hualien Tzu Chi Hospital, Buddhist Tzu Chi Medical Foundation, Taiwan / School of Medicine, Tzu Chi University, Taiwan</td>
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<tr>
<td>O-07-5</td>
<td>Comparison between DSQIID total/sub-item scores and plasma p-tau in adults with Down syndrome</td>
<td>Takashi Kasai</td>
<td>Department of Neurology, Kyoto Prefectural University of Medicine, Japan</td>
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<td>O-08</td>
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<td>May 31 (Wed) 15:35 ~ 17:05 Room 11 (Tokyo Bay Makuhari Hall 2F No.3. 4)</td>
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<tr>
<td></td>
<td>Headache and Sleep disorders</td>
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<td></td>
<td>Chair: Muneto Tatsumoto</td>
<td></td>
<td>Dokkyo Medical University Hospital Headache Center Medical Safety Management Center, Japan</td>
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<tr>
<td>O-08-1</td>
<td>Stigmatizing Attitudes and Social Burden About Migraine: Results of OVERCOME (Japan)</td>
<td>Hisaka Igarashi</td>
<td>Fujitsu Clinic, Kawasaki, Japan</td>
</tr>
<tr>
<td>O-08-2</td>
<td>Real-world effectiveness after initiating fremanezumab treatment of 165 Japanese migraine patients</td>
<td>Shoji Kikui</td>
<td>Department of Neurology, Tominaga Hospital, Japan</td>
</tr>
<tr>
<td>O-08-3</td>
<td>The treatment efficacy of anti-CGRP antibodies for migraine in our hospital</td>
<td>Akihiro Fujii</td>
<td>Department of Neurology, Saiseikai Shiga Hospital, Japan</td>
</tr>
<tr>
<td>O-08-4</td>
<td>Simultaneous EEG-fMRI analysis in hemiplegic migraine patients</td>
<td>Yuu Tatsuoka</td>
<td>Department of Neurology, Kyoto University Graduate School of Medicine, Japan</td>
</tr>
</tbody>
</table>
The condition of headaches and the effectiveness of headache education: A survey in medical students
Asami Kamada
Division of Neurology and Gerontology, Department of Internal Medicine, School of Medicine, Iwate Medical University, Japan

Association between pareidolia and outcomes in patients with isolated REM sleep behavior disorder
Masayuki Miyamoto
Dokkyo Medical University, School of Nursing, Japan / Department of Neurology, Dokkyo Medical University Hospital, Japan

O-09 Oral Session 09
May 31 (Wed) 15:35 ~ 17:05 Room 12 (Tokyo Bay Makuhari Hall 2F No. 5, 6)

Dementia 2
Chair: Kenichiro Yamashita
Department of Neurology, Brain and Nerve Center, Fukuoka Central Hospital, Japan

O-09-1 CSF alpha-Synuclein for clinical practice of dementia
Kazuya Igarashi
Department of Molecular Genetics, Brain Research Institute, Niigata University, Japan / Department of Neurology, Brain Research Institute, Niigata University, Japan

O-09-2 Relationship between CSF biomarkers and MMSE scores
Kazutomi Kanemaru
Department of Neurology, Tokyo Metropolitan Geriatric Hospital, Japan

O-09-3 Plasma neurofilament light chain and CSF biomarkers for clinical practice in neurology
Kensaku Kasuga
Department of Molecular Genetics, Brain Research Institute, Niigata University, Japan

O-09-4 Aquaporin-4 cerebrospinal fluid levels are elevated in Alzheimer's disease
Yoshihisa Kitayama
Department of Neurology, Graduate School of Medicine, Chiba University, Japan / Chiba City Medical Center for Cognitive Disorders, Japan

O-09-5 Setting Neuropsychological Test Cutoff Values for Preclinical AD Using the ATN Classification
Yukifusa Igeta
Federation of National Public Service Personnel Mutual Aid Associations Toranomon Hospital, Dept. of Dementia, Japan / Okinaka Memorial Institute for Medical Research, Japan

O-09-6 Medial temporal lobe atrophy in Alzheimer's disease is associated with COGNISTAT
Kazuho Kojima
Center for Dementia-Related Diseases, Chiba Rosai Hospital, Japan
Cerebrovascular disease 2
Chair: Yoichi Ohnuki
Tokai University Department of Neurology, Japan

O-10-1 Anticoagulant therapy for the recurrence of ischemic stroke in AF patients with renal dysfunction
Noriyuki Sahara
Neurology, Fukuoka Red Cross Hospital, Japan / Department of Medicine and Clinical Science, Graduate School of Medical Sciences, Kyushu University, Japan / Department of Health Care Administration and Management, Graduate School of Medical Sciences, Kyushu University, Japan

O-10-2 Prevention of cancer-associated stroke by heparin or direct Xa inhibitors - a retrospective study
Yuka Chin
Tokai University Hachioji Hospital, Japan

O-10-3 Impact of virtual reality-guided brain reprogramming in chronic hemiplegic patients after stroke
Masahiko Hara
Center for Community-Based Healthcare Research and Education, Shimane University Faculty of Medicine, Japan / mediVR Rehabilitation Center Osaka, Japan / mediVR Rehabilitation Center Tokyo, Japan

O-10-4 Examination of cryptogenic stroke at the end of monitoring of the insertable cardiac monitor
Ryosuke Doijiri
Department of Neurology, Iwate Prefectural Central Hospital, Morioka, Iwate, Japan

O-10-5 Ghost infarct core is associated with successful recanalization in fast core growth
Mikito Saito
Department of Stroke and Cerebrovascular Medicine, Kyorin University, Japan

O-10-6 Investigation of cerebral infarction regions associated with involuntary movement
Naoya Okada
Division of Neurology, Department of Brain and Neurosciences, Faculty of Medicine, Tottori University, Japan
**O-11 Oral Session 11**

**Neuroimmunology 2**

Chair: Kazuo Fujihara
Department of Multiple Sclerosis Therapeutics, Fukushima Medical University, Japan

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**O-11-1**

Comparison of the patients with high and low rates of brain atrophy in multiple sclerosis
Juichi Fujimori
Division of Neurology, Tohoku Medical and Pharmaceutical University, Japan

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**O-11-2**

Personalized Extended Interval Dosing of Natalizumab for family planning in MS patients
Masami Tanaka
Kyoto Min-Iren Chuo Hospital, Japan / Kaikoukai Josai Hospital, Japan

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**O-11-3**

Differences between fingolimod and dimethyl fumarate on PBMC surface markers in MS patients
Hayato So
Department of Neurology, Tokyo Women's Medical University Hospital, Japan

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**O-11-4**

Patient's Burden of Multiple Sclerosis in PHR/ePRO
Kenzo Sakurai
Department of Neurology, St. Marianna University School of Medicine, Japan

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**O-11-5**

Investigation of immune response to JCV in MS patients taking fingolimod (an interim analysis)
Hiroyuki Toda
Novartis Pharma K.K. Medical Affairs Division, Japan

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**O-11-6**

First interim report of survey on long-term use of Inebilizumab for NMOSD
Kazuo Fujihara
Department of Multiple Sclerosis Therapeutics, Fukushima Medical University, Japan

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**O-12 Oral Session 12**

**Parkinsonism and Related disorders 2**

Chair: Makto Shiraiishi
St. Marianna University School of Medicine, Japan

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**O-12-1**

Association between freezing of gait and anticipatory postural adjustments in Parkinson's disease
Ryo Onuma
Faculty of Health Sciences, Mejiro University, Japan / Department of Rehabilitation Medicine, Tokyo Medical and Dental University Graduate School, Japan
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<th>Session</th>
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</table>
| O-12-2 | Clinical presentation of Parkinson's disease patients with preserved olfactory perception | Konoka Kanda  
Fujita Health University, Japan |
| O-12-3 | Breastfeeding in Segawa disease | Michiko Kawai  
Segawa Memorial Neurological Clinic for Children, Japan |
| O-12-4 | Psychiatric symptoms in Segawa disease: 6 case reports | Kyoko Hoshino  
Segawa Memorial Neurological Clinic for Children, Japan |

**O-13 Oral Session 13**

**Dementia 3**

Chair: Yasumasa Yoshiyama  
Inage Neurology and Memory Clinic, Japan

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<tr>
<th>Session</th>
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</table>
| O-13-1 | Clinical and neuroimaging-based classification of Alzheimer's-related primary progressive aphasia | Kazuto Katsuse  
Department of Behavioral Neurology and Cognitive Neuroscience, Graduate School of Medicine, Tohoku University, Japan / Department of Neurology, Graduate School of Medicine, The University of Tokyo, Japan |
| O-13-2 | Auditory and phonological processing deficits and related brain areas in primary progressive aphasia | Nobuko Kawakami  
Department of Behavioral Neurology and Cognitive Neuroscience, Tohoku University Graduate School of Medicine, Japan |
| O-13-3 | Pontine cognitive affective syndrome (PCAS) and cerebellar cognitive affective syndrome (CCAS) | Mitsuaki Bandoh  
Tokyo Metropolitan Neurological Hospital department of neurology, Japan |
| O-13-4 | B12 supplementation improved cognitive function and homocysteine in patients with B12 deficiency | Asako Ueno  
Department of Neurology, Fukui-ken Saiseikai Hospital, Japan / Second Department of Internal Medicine, University of Fukui, Japan |
O-14 Oral Session 14
June 1 (Thu) 9:45 ~ 10:45  Room 04 (Makuhari Messe International Conference Hall 3F 301)

Neuroimmunology 3
Chair: Kazuhide Ochi
Hiroshima Prefectural Hospital, Japan

O-14-1  Epidemiological and clinical characteristics of MOGAD in Japan
(secondary survey report)
Masashi Nakamura
Division of Neurology, Department of Medicine, Tohoku Medical and Pharmaceutical University, Japan

O-14-2  Higher first year annual relapse rate was common among MOGAD, AQPAD and MS
Shinji Aoyama
Department of Neurology, Chiba University, Japan

O-14-3  Immunotherapies in elderly patients with multiple sclerosis
Akihiro Kondo
Department of Neurology, Tokyo Women’s Medical University, Japan

O-14-4  Therapy and prognosis in patients with autoimmune GFAP astrocytopathy in Japan
Akio Kimura
Department of Neurology, Gifu University Graduate School of Medicine, Japan

O-15 Oral Session 15
June 1 (Thu) 9:45 ~ 10:45  Room 05 (Makuhari Messe International Conference Hall 3F 304)

Cerebellar ataxia and Myelopathy
Chairs: Kinya Ishikawa
Personalized Genomic Medicine for Health, Japan
Dai Matsuse
Kyushu University Hospital, Japan

O-15-1  Pathological evaluations of patients of CANVAS with biallelic expansion of AAGGG and ACAGG repeats
Taishi Wada
Department of Neurology and Stroke Medicine, Yokohama City University Graduate School of Medicine, Japan

O-15-2  Marked upregulation of GPR17-positive premyelinating oligodendrocytes in multiple system atrophy
Yuji Nishimura
Department of Neurology, Neurological Institute, Graduate School of Medical Sciences, Kyushu University, Japan

O-15-3  Identification of a unique microglia population exacerbating multiple system atrophy
Dai Matsuse
Department of Neurology, Neurological Institute, Graduate School of Medical Sciences, Kyushu University, Japan
O-15-4 Early and extensive alterations of glial connexins in multiple system atrophy
Katsuhisa Masaki
Department of Neurology, Neurological Institute, Graduate School of Medical Sciences, Kyushu University, Japan

O-16 Oral Session 16
June 1 (Thu) 9:45 ~ 10:45 Room 06 (Makuhari Messe International Conference Hall 3F 302)

Motor neuron disease 1
Chair: Kota Bokuda
ALS/MND center, Tokyo Metropolitan Neurological Hospital, Japan

O-16-1 The investigation of swallowing sound using electronic stethoscope and AI analysis for ALS patients
Masahiro Nakamori
Department of Clinical Neuroscience and Therapeutics, Hiroshima University Graduate School of Biomedical and Health Sciences, Japan

O-16-2 Utility of brachial plexus evaluation using nerve ultrasound for diagnosis of early-stage ALS
Hiroki Yamazaki
Department of Neurology, Tokushima University Hospital, Japan

O-16-3 Fasciculations in ALS patients tend to occur deep in the muscles, often unnoticed by the patients
Kota Bokuda
Department of Neurology, Tokyo Metropolitan Neurological Hospital, Japan

O-16-4 Profiles of miRNAs in extracellular vesicles derived from body fluids of ALS patients
Satoru Morimoto
Department of Physiology, Keio University, School of Medicine, Japan / Department of Neurology, Keio University, School of Medicine, Japan

O-17 Oral Session 17
June 1 (Thu) 9:45 ~ 10:45 Room 07 (Makuhari Messe International Conference Hall 3F 303)

Neurorehabilitation 1
Chairs: Ichiro Miyai
Department of Neurology, Morinomiya Hospital, Japan
Makoto Eriguchi
Division of Neurology, Department of Internal medicine, Saga University Faculty of Medicine, Japan

O-17-1 Concurrent estimation of clinical status of patients with Parkinson's disease from their blinking
Noriko Nishikawa
Department of Neurology, Juntendo University School of Medicine, Japan
### O-17-2  A comparative study of anti-Parkinson’s disease drugs against dysphagia  
**Makito Hirano**  
Department of Neurology, Kindai University Faculty of Medicine, Japan

### O-17-3  Online-telerehabilitation for dysphagia in patients with neurological disease  
**Sonoko Nozaki**  
Wakakusa-Tatsuma Rehabilitation Hospital, Japan

### O-17-4  The Efficacy of Vestibular Rehabilitation Therapy for Mild Traumatic Brain Injury: A Meta-analysis  
**Ammar M. Aljabri**  
King Saud bin Abdulaziz University for Health and Sciences, Jeddah, Saudi Arabia

### O-18  Oral Session 18

**June 1 (Thu) 9:45 ~ 10:45  Room 08 (Makuhari Messe International Conference Hall 1F 103)**

#### Motor neuron disease 2

**Chairs:** Norito Kokubun  
Department of Neurology, Dokkyo Medical University, Japan  
Osamu Kano  
Department of Neurology, Toho University Faculty of Medicine, Japan

### O-18-1  Modeling blood-brain barrier dysfunction in amyotrophic lateral sclerosis  
**Hideaki Nishihara**  
Department of Neurotherapeutics, Yamaguchi University, Japan

### O-18-2  Regulation of TDP-43 solubility via its spatial organization by nucleic acid binding  
**Motoki Miura**  
Department of Neurology and Neurological Science, Tokyo Medical and Dental University, Japan / Center for Brain Integration Research (CBIR), Tokyo Medical and Dental University, Japan

### O-18-3  Calretinin activates microglia to produce CC-motif ligand 2 relevant to clinical severity of ALS  
**Shintaro Hayashi**  
Department of Neurology, Neurological Institute, Graduate School of Medical Sciences, Kyushu University, Japan / Department of Neurology, Gunma Rehabilitation Hospital, Japan

### O-18-4  Functional verification and clinical Phenotypes of ALS with Novel Variants of VAPB Gene  
**Chen Jianmin**  
FUJIAN MEDICAL UNIVERSITY, China / Fujian Medical University Union Hospital, China
### Oral Session 19

**Peripheral neuropathy and Metabolic disorders 1**

**Chairs:** Peter Ulrichs  
Chief Scientific Officer, argenx BV, Belgium  
Yu-ichi Noto  
Department of Neurology, Graduate School of Medical Science, Kyoto  
Prefectural University of Medicine, Japan

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<tbody>
<tr>
<td>O-19-1</td>
<td>Epitope mapping of anti-neurofascin 155 antibodies in a large cohort of autoimmune nodopathy</td>
<td>Hidenori Ogata</td>
<td>Department of Neurology, Kyushu University Hospital, Japan</td>
</tr>
<tr>
<td>O-19-2</td>
<td>IgG2 autoantibody relates to IVIg response and onion bulb formation in LGI4+ autoimmune nodopathy</td>
<td>Xu Zhang</td>
<td>Translational Neuroscience Center, Graduate School of Medicine, International University of Health and Welfare, Okawa, Japan</td>
</tr>
<tr>
<td>O-19-3</td>
<td>Chronic inflammatory demyelinating polyradiculoneuropathy with nephropathy: a case series study</td>
<td>Tang Yuwei</td>
<td>Peking University First Hospital, China</td>
</tr>
<tr>
<td>O-19-4</td>
<td>Electrophysiological features of Guillain-Barré syndrome in Mongolian adult patients</td>
<td>Sarangerel Jambal</td>
<td>Reflex clinic, Mongolia</td>
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### Oral Session 20

**Neuropathology**

**Chairs:** Toshiki Uchihara  
Neurology Clinic with Neuromorphomics Laboratory, Nitobe Memorial  
Nakano General Hospital, Japan  
Shigeru Koyano  
Yokohama Minami Kyosai Hospital, Japan

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<tr>
<td>O-20-1</td>
<td>Deep Learning Pipeline for Diagnosing Alzheimer's Disease and Tauopathies on Whole Slide Images</td>
<td>Shunsuke Koga</td>
<td>Department of Neuroscience, Mayo Clinic, Japan</td>
</tr>
<tr>
<td>O-20-2</td>
<td>Histopathological characteristics of patients with late-onset multiple system atrophy</td>
<td>Misato Ozawa</td>
<td>Department of Pathology, Brain Research Institute, Niigata University, Japan / Division of Neurology, Department of Medicine, Jichi Medical University, Japan</td>
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</tbody>
</table>
O-20-3  Legmain-resistant tau fibril fold produces CBD-specific C-terminal tau fragment
Daisuke Taniguchi
Department of Neurology, Juntendo University Graduate School of Medicine, Japan

O-20-4  Automated Whole Slide Analysis of Sural Nerve Biopsy by Machine Learning Application
Daisuke Ono
Department of Neurology and Neurological Science, Tokyo Medical and Dental University, Japan / Department of Neuroscience, Mayo Clinic, USA

O-21 Oral Session 21
June 1 (Thu) 9:45 ~ 10:45  Room 11 (Tokyo Bay Makuhari Hall 2F No.3. 4)

Peripheral neuropathy and Metabolic disorders 2
Chair: Masayuki Baba
Department of Neurology, Aomori Prefectural Medical Center, Japan

O-21-1  Human transthyretin gene expression is remarkably increased in repair phenotype of Schwann cells
Tatsufumi Murakami
Department of Neurology, Kawasaki Medical School, Japan / Faculty of Rehabilitation, Kawasaki University of Medical Welfare, Japan

O-21-2  Ultrastructure of eosinophil degranulation in eosinophilic granulomatosis with polyangiitis
Haruki Koike
Department of Neurology, Nagoya University Graduate School of Medicine, Japan

O-21-3  Pathophysiology of peripheral neuropathic pain using evoked potentials after small fiber stimulation
Sagiri Isose
Department of Neurology, National Hospital Organization Chibahibashi National Hospital, Japan / Department of Neurology, Graduate School of Medicine, Chiba University, Japan

O-21-4  Clinical neurophysiologic study of painful and painless diabetic neuropathy
Masayuki Baba
Department of Neurology, Aomori Prefectural Central Hospital, Japan
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<td>O-22</td>
<td>Lower frequency of equol producers in cardioembolic stroke among all subtypes of stroke</td>
<td>Kotaro Noda</td>
<td>Department of Neurology, National Cerebral and Cardiovascular Center, Japan / Department of Neurology and Neurological Science, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University, Japan</td>
</tr>
<tr>
<td></td>
<td>Risk Factors of Large Vessel Occlusion of Cerebral Artery in AF Patients with DOAC</td>
<td>Tomonari Saito</td>
<td>Department of Neurology, Nippon Medical School, Japan</td>
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<td>Prediction with modified SVD scores on Progression after rt-PA for Perforator Infarction</td>
<td>Masanobu Yoshida</td>
<td>Neurology, Kobe City Medical Center General Hospital, Japan</td>
</tr>
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<td>Paroxysmal atrial tachycardia in Cryptogenic Stroke predicts atrial fibrillation detected with ICM</td>
<td>Hidekazu Yamazaki</td>
<td>Department of Neurology and Neuroendovascular Treatment, Yokohama Shintoshi, Neurosurgical Hospital, Kanagawa, Japan</td>
</tr>
<tr>
<td>O-23</td>
<td>Social involvement issues in patients with adult Duchenne muscular dystrophy: A questionnaire study</td>
<td>Madoka Mori-Yoshimura</td>
<td>Department of Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Japan</td>
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<td>Screening for dysphagia on admission in adult patients with muscular dystrophy</td>
<td>Toshiyuki Yamamoto</td>
<td>Department of Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Japan</td>
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<td>Ultrasonography can help diagnose facioscapulohumeral muscular dystrophy</td>
<td>Isamu Yamakawa</td>
<td>Shiga University of Medical Science, Japan</td>
</tr>
</tbody>
</table>
O-23-4  Clinical features of irAE myositis primarily affecting posterior neck muscles and paraspinal muscles
Masao Osaki
Toranomon Hospital, Japan

O-24  Oral Session 24
June 1 (Thu) 9:45 ~ 10:45  Room 14 (Tokyo Bay Makuhari Hall 2F No. 9, 10)

Muscle diseases 2
Chair: Satoshi Yamashita
International University of Health and Welfare Narita Hospital, Japan

O-24-1  A Survey of Anti-mitochondrial Antibody-positive Myositis Using a Nationwide Questionnaire in Japan
Meiko Maeda
Department of neurology, The University of Tokyo Hospital, Japan

O-24-2  Role of EMG in diagnosing IIM under EULAR / ACR classification criteria
Keiichi Hokkoku
Department of Neurology, Teikyo University School of Medicine, Japan

O-24-3  Linkage of assessing autonomic nervous system activity in early diagnosis of locomotive syndrome
Nagato Kuriyama
Department of Social Health Medicine, Shizuoka Graduate University of Public Health, Japan

O-24-4  How much does grip strength increase depending on a dynamometer position in neuromuscular diseases?
Yasushi Oya
Dept of Neurol, National Center of Neurology & Psychiatry (NCNP), Japan

O-25  Oral Session 25
June 2 (Fri) 9:45 ~ 11:15  Room 03 (Makuhari Messe International Conference Hall 2F 201)

Neurogenetics and Gene therapy 1
Chair: Akihiro Hashiguchi
Kagoshima University Hospital, Neurological Disease Center, Neurology, Japan

O-25-1  Genetic counseling and predictive testing for ATTRv amyloidosis
Katsuya Nakamura
Center for Medical Genetics, Shinshu University Hospital, Japan / Department of Medicine (Neurology and Rheumatology), Shinshu University School of Medicine, Japan

O-25-2  Establishment of a new inexpensive and informative genetic analysis method for repeat disease
Keiji Tachikawa
St.marianna univ, Japan
Whole-genome sequencing in young patients with stroke
Riyoko Ko
Division of Neurology, Department of Internal Medicine, St. Marianna University School of Medicine, Japan

Post-marketing surveillance of nusinersen, an SMA treatment, in Japan: Interim results to May 2022
Yosuke Tachibana
Biogen Japan, Japan

Therapeutic Effects of Risipram on Seven Patients with Spinal Muscular Atrophy
Toru Yamashita
Department of Neurology, Okayama University, Japan

Neuroinfection
Chair: Yoshihisa Yamano
Department of Neurology, St. Marianna University School of Medicine, Japan

Prion Disease Diagnosis criteria. Comparison among the Committee and Other International Consortia
Tadashi Tsukamoto
Department of Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Japan / Prion Disease Surveillance Committee, Japan

Tickborne Encephalitis in patients with acute encephalitis or meningitis of unknown etiology
Masayuki Ohira
Department of Clinical Laboratory, National Center of Neurology and Psychiatry (NCNP), Japan

Utilization of the FilmArray® ME panel and study of aseptic meningitis in our center
Mizuki Otomo
Sendai Medical Center, Japan

Analysis of disease activity biomarker in Long-term followed HAM patients
Norihiro Takenouchi
Department of Microbiology, Japan / Department of Neurology, Japan

The diagnostic utility of soluble interleukin-2 receptor in CSF of patients with meningitis
Takafumi Hosokawa
Department of Internal Medicine IV, Osaka Medical and Pharmaceutical University, Japan
O-26-6  Analysis of neurological prognosis in 26 patients with reactivations of the varicella-zoster virus
Joe Nemoto
Department of Neurology, Tokuyama Central Hospital, Japan

O-27  Oral Session 27
June 2 (Fri) 9:45 ~ 11:15  Room 05 (Makuhari Messe International Conference Hall 3F 304)

Neurorehabilitation 2
Chair: Takashi Hasegawa
Atsugi City Hospital, Department of Neurology, Japan

O-27-1  Development of the AI model to support diagnosis for peripheral neuropathies
Tomoki Suichi
Department of Neurology, Graduate School of Medicine, Chiba University, Japan

O-27-2  Can natural language processing identify early cognitive decline in Parkinson's disease patients?
Katsunori Yokoi
Department of Neurology, National Hospital for Geriatric Medicine, National Center for Geriatrics and Gerontology, Japan / Department of Neurology, Nagoya University Graduate School of Medicine, Japan

O-27-3  Evaluating post-stroke aphasia recovery using EEG phase synchrony index
Teiji Kawano
Department of Neurology, Morinomiya Hospital, 2-1-88 Morinomiya, Joto-ku, Osaka 536-0025, Japan., Japan / Rhythm-based Brain Information Processing Unit, RIKEN CBS-TOYOTA Collaboration Center, RIKEN Center for Brain Science, Wako, 351-0198, Japan

O-27-4  Effects of High-frequency rTMS in Acute Ischemic Stroke Patients
Teppei Komatsu
Department of Neurology, the Jikei University School of Medicine, Japan

O-27-5  Randomized, single blind clinical trial of lower level laser therapy for overactive bladder
Tomoyuki Uchiyama
International University of Heath and Welfare School of Medicine Department of Neurology, Japan / International University of Heath and Welfare Shioya Hospital Department of Neurology, Japan / International University of Heath and Welfare Narita Hospital Department of Neurology, Japan / Chiba University School of Medicine Department of Neurology, Japan

O-27-6  Estimated population of brain-machine interfaces for communication support: A systematic review
Takuma Nakamura
Department of Neurological Diagnosis and Restoration, Osaka University Graduate School of Medicine, Japan / Department of Neurology, Kyoto Prefectural University of Medicine, Japan
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<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
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<tr>
<td>O-28-1</td>
<td>withdrawn</td>
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<tr>
<td>O-28-2</td>
<td>Degradation of Tau Oligomer by Autophagy</td>
<td>Tadanori Hamano, Department of Neurology, University of Fukui, Japan / Department of Aging and Dementia (DAD), University of Fukui, Japan</td>
</tr>
<tr>
<td>O-28-3</td>
<td>Amyloid Beta Is Internalized via HSPG, Lipid Raft-Dependent and Rac1-Mediated Macropinocytosis</td>
<td>Keyoumu Nazere, Department of Medical Genetics, Tokushima University Graduate School of Biomedical Sciences, Japan / Department of Clinical Neuroscience and Therapeutics, Hiroshima University Graduate School of Biomedical and Health Sciences, Japan</td>
</tr>
<tr>
<td>O-28-4</td>
<td>Clonally expanded CD8 T cells at an early stage of beta-amyloid pathology</td>
<td>Masaki Ohyagi, Department of Microbiology and Immunology, Keio University School of Medicine, Japan / Department of Neurological Science, Tokyo Medical and Dental University, Japan</td>
</tr>
<tr>
<td>O-28-5</td>
<td>In vivo illustration of a new anti-Alzheimer's disease drug effect on neuronal viability in mice</td>
<td>Yasuomi Ouchi, Dept of Biofunctional Imaging, Hamamatsu University Sch Med, Japan</td>
</tr>
<tr>
<td>O-28-6</td>
<td>RGMa signaling as a novel therapeutic target against vascular and diabetes-related dementia</td>
<td>Takahide Itokazu, Neuro-Medical Science, Graduate School of Medicine, Osaka University, Japan / Molecular Neuroscience, Graduate School of Medicine, Osaka University, Japan</td>
</tr>
</tbody>
</table>
Cerebrovascular disease 4
Chairs: Shigeru Nogawa
Department of Neurology, Tokai University Hachioji Hospital, Japan
Yoshiaki Itoh
Department of Neurology Osaka Metropolitan University Graduate School of Medicine, Japan

O-29-1 Temporal changes in the expression of microRNAs related to acute ischemia in the gerbil hippocampus
Yasuhiro Hamada
Department of supportive and promotive medicine of the municipal hospital, Faculty of Medicine, Kagawa University, Japan / Department of Gastroenterology and Neurology, Faculty of Medicine, Kagawa University, Japan

O-29-2 Neuroinflammation accelerates the brain atrophy after hemorrhage stroke
Sungpil Joo
Chonnam National University Hospital, Korea

O-29-3 The role of polymorphonuclear myeloid-derived suppressor cells (PMN-MDSCs) and neutrophils in stroke
Haomin Yan
Department of Neurology, Graduate School of Medicine, Osaka University, Japan

O-29-4 Suppression of inflammation via PCSK9 inhibition can improve outcome after ischemic injury
Atsushi Mizuma
Department of Neurology, Tokai University School of Medicine, Japan

O-29-5 Vessel-associated microglia precede cerebrovascular changes in a chronic hypertension model
Takashi Koizumi
Dept. of Anatomy and Neurobiology, Kyoto Prefectural University of Medicine, Japan

O-29-6 Polycomb group complex regulates neurogenesis after transient ischemia in gerbil hippocampus
Yoshihide Sehara
Division of Genetic Therapeutics, Center for Molecular Medicine, Jichi Medical University, Japan

Motor neuron disease 3
Chairs: Shyuan T. Ngo
The University of Queensland, Australia
Yohei Okada
Institute for Medical Science of Aging, Aichi Medical University, Japan

O-30-1 withdrawn
Dysregulated endocannabinoid system is a therapeutic target for amyotrophic lateral sclerosis
Daisuke Ito
Nagoya University Graduate School of Medicine, Department of Neurology, Japan

Japan REgistry for Adult subjeCTs of Spinal Muscular Atrophy (jREACT-SMA): 1-Year Interim Results
Kentaro Sahashi
Department of Neurology, Nagoya University Graduate School of Medicine, Nagoya, Japan

The reliability study for Japanese version of Columbia Muscle Cramp Scale in ALS
Masahiro Sawada
Department of Neurology, Toho University Faculty of Medicine, Japan

The reliability of Japanese version Primary Lateral Sclerosis Functional Rating Scale (PLSFRS)
Masaru Yanagihashi
Department of Neurology, Toho University Faculty of Medicine, Tokyo, Japan

Efficacy, Safety and Tolerability of High Caloric Diet in Amyotrophic Lateral Sclerosis
Karen Joy B. Adiao
University of the Philippines - Philippine General Hospital, Philippines

Early Management of Respiratory Failure as a Prognosticative Tool In managing Miller-Fischer Syndrome
Muhamad Syis S. Bin Zulkipli
Bentong Hospital, Pahang, Malaysia

Ultrasonography of carpal tunnel syndrome: correlation with clinical and electrodiagnostic findings
Selenge Enkhtuya
Reflex Clinic, Mongolia

Clinical diversity of patients with neuronal intranuclear inclusion disease (NIID) (3rd report)
Tomoko Okamoto
Department of Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Japan
### O-31-4  
**Anti-Annexin A2 autoantibodies relate to neuropathic pain**  
**Kaoru Kashu**  
Department of Neurology, Neurological Institute, Graduate School of Medical Sciences, Kyushu University, Japan

### O-31-5  
**Electrophysiologic profile of Filipino patients chronically exposed to Arsenic**  
**Mario Jr B. Prado**  
University of the Philippines Manila College of Medicine, Philippines / Department of Neurosciences, Philippine General Hospital, Philippines / University of the Philippines Manila College of Public Health, Philippines

### O-31-6  
**Assessment of small fiber involvement in autoimmune nodopathy by quantitative sensory testing**  
**Takayuki Fujii**  
Department of Neurology, Neurological Institute, Graduate School of Medical Sciences, Kyushu University, Japan

### O-32  Oral Session 32  
**Muscle diseases 3**  
Chairs: Wen-Hua Zhu  
Department of Neurology, Huashan Hospital Fudan University, China  
Eri Arikawa-hirasawa  
Juntendo School of Medicine Department of Neurology, Japan

#### O-32-1  
**Muscle pathology of BMD mouse models carrying sever- and milder-form exon-deletions**  
**Daigo Miyazaki**  
Department of Medicine (Neurology and Rheumatology), Shinshu University School of Medicine, Japan / Shinshu Medical Care Collaboration Center (Division of Support for Intractable Disease), Shinshu University Hospital, Japan

#### O-32-2  
**Specific Alterations of Lipidome in Urine-derived Cells from Duchenne Muscular Dystrophy's Patients**  
**Katsuhiro Kunitake**  
Department of Molecular Therapy, National Institute of Neuroscience, National Center of Neurology and Psychiatry (NCNP), Japan

#### O-32-3  
**Circulating alpha-Klotho combats TGF-beta-induced sarcopenia**  
**Yutaka Ohsawa**  
Neurology, Kawasaki Medical School, Japan

#### O-32-4  
**Nationwide survey of patients with multisystem proteinopathy (MSP) in Japan**  
**Satoshi Yamashita**  
International University of Health and Welfare Narita Hospital, Japan / Kumamoto University Graduate School of Medical Sciences, Japan
O-32-5  Scleromyxedema myopathy—a new entity with excessive autophagic vacuoles with sarcolemmal features
Jingchu Yuan
Department of Neurology, Peking University First Hospital, China
withdrawn

O-33  Oral Session 33

June 2 (Fri)  9:45 ~ 11:15  Room 11 (Tokyo Bay Makuhari Hall 2F No.3, 4)

Clinical Neurophysiology
Chair: Chieko Murakami
Department of Neurology, Hirosaki University Graduate School of Medicine, Japan

O-33-1  Physiological characteristics of action potential estimated by median nerve magnetic field
Kentaro Nakayama
Department of Neurology, Kansai Medical University, Japan

O-33-2  Where is the best electrode position for recording the N21 potential in tibial nerve SEPs?
Chizuko Oishi
Department of Neurology, Kyorin University School of Medicine, Japan / Department of Neurology, Teikyo University School of Medicine, Japan

O-33-3  Assessment of sudomotor dysfunction using SUDOSCAN in patients with Parkinson’s disease
Takahiro Shimizu
Division of Neurology, Department of Brain and Neurosciences, Faculty of Medicine, Tottori University, Japan

O-33-4  Crucial role of visual cognition on the PISA syndrome in Parkinson’s disease
Asako Yoritaka
Neurology, Juntendo University Koshigaya Hospital, Japan

O-33-5  Diagnosis of neurogenic and myogenic changes by contraction fasciculation on muscle ultrasonography
Shun Matoba
Kobe University Hospital Neurology, Japan

O-33-6  Vestibular reflex changes underlying chronic dizziness
Ken Johkura
Department of Neurology, Yokohama Brain and Spine Center, Japan
### O-34 Oral Session 34

#### Parkinsonism and Related disorders 3

**Chair:** Hiroo Terashi  
Department of Neurology, Tokyo Medical University, Japan

<table>
<thead>
<tr>
<th>O-34-1</th>
<th>Characteristics of word recall impairment in progressive supranuclear palsy/corticobasal syndrome</th>
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</table>
|        | Yosuke Kono  
Fujita Health University Hospital Neurology, Japan  |

<table>
<thead>
<tr>
<th>O-34-2</th>
<th>Investigation of Clinical Factors Affecting Changes in QOL in Parkinson's Disease Over Time</th>
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|        | Yuji Tsujimura  
Fujita Health University Department of Neurology, Japan  |

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<tr>
<th>O-34-3</th>
<th>Diagnosis of Parkinsonism based on frontal lobe disease and presentation of typical cases</th>
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|        | Fuji Yokoi  
Department of Neurology Aichi Prefecture Welfare Federation of Agricultural Cooperatives Atumi hospital, Japan  |

<table>
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<tr>
<th>O-34-4</th>
<th>Multiple system atrophy at an initial stage exhibits laterality of middle cerebellar peduncles</th>
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|        | Minori Furuta  
Gunma University Graduate School of Medicine, Japan  |

<table>
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<tr>
<th>O-34-5</th>
<th>Examination of vagus nerve cross-sectional area in Parkinson's disease</th>
</tr>
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|        | Tomoyuki Miyamoto  
Department of Neurology, Dokkyo Medical University Saitama Medical Center, Japan  |

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<tr>
<th>O-34-6</th>
<th>Mild hyposmia may correlate with cardiac sympathetic denervation in multiple system atrophy</th>
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|        | Tatsushi Kokubu  
Department of Neurology, The Jikei University School of Medicine, Japan  |

### O-35 Oral Session 35

#### Cerebrovascular disease 5

**Chair:** Matsumoto Noriko  
Department of Neurology, Japan

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<thead>
<tr>
<th>O-35-1</th>
<th>Temporal change of intracranial atherosclerotic plaque characteristic in acute ischemic stroke</th>
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</table>
|        | Yoshiki Yagita  
Department of Stroke Medicine, Kawasaki Medical School, Japan  |
Investigation of posterior communicating artery and functional prognosis in basilar artery embolism
Tsugio Akutsu
Department of Neurology, Kitasato University, School of Medicine, Japan

Efficacy and safety evaluation of patent foramen ovale closure by ultrasound attached to the neck
Hidetaka Mitsumura
Department of Neurology, The Jikei University School of Medicine, Japan

Outcome of reperfusion therapy for patients with both acute ischemic stroke and active cancer
Rei Sakurai
Osaka University Graduate School of Medicine, Japan

Clinical characteristics of 165 cases of stroke with COVID-19 in Japan
Yasuhiro Nishiyama
Department of Neurology, Nippon Medical School, Japan

Clinical features for early Wallerian degeneration after acute cerebral infarction
Kazumichi Ota
Department of Neurology, Saitama Medical University, Japan

Circulating Plasmablasts and Follicular Helper T-cell Subsets Characterize Autoimmune Epilepsy
Atsushi Hara
Division of Neurology, Kobe University Graduate School of Medicine, Japan

Clinical application of HIS score estimating CSF GluN1 antibody titers in anti-NMDAR encephalitis
Masaki Iizuka
Department of Neurology, Kitasato University School of Medicine, Japan

Usefulness and limitations of commercial rat brain immunohistochemistry as GFAP antibody screening
Makoto Nagashima
Department of Neurology, Kitasato University School of Medicine, Japan

Usefulness and limitations of commercial immunohistochemistry as neuronal surface antibody screening
Naomi Nagata
Department of Neurology, Kitasato University School of Medicine, Japan
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<th>Session</th>
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<th>Speaker</th>
<th>Institution</th>
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<tr>
<td>O-36-5</td>
<td>Survey of newly diagnosed autoimmune-mediated encephalitis in 2021</td>
<td>Haruna Akanuma</td>
<td>Fukushima Medical University, Department of Neurology, Japan</td>
</tr>
<tr>
<td>O-36-6</td>
<td>Clinical significance of MOG antibodies in anti-NMDA receptor</td>
<td>Masaaki Nakamura</td>
<td>Department of Neurology, Kitasato University School of Medicine, Japan</td>
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<td>encephalitis</td>
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<td>O-37-1</td>
<td>Diagnostic usefulness of arterial spin labeling in epilepsy with and</td>
<td>Tatsuya Sato</td>
<td>Department of Neurology, Brain Attack Center Ota Memorial Hospital, Japan</td>
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<td>without status epilepticus</td>
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<td>O-37-2</td>
<td>Automatic estimation of epileptogenic zone using deep learning on</td>
<td>Toshiki Okadome</td>
<td>Department of Neurology, Neurological Institute, Graduate School of Medical Sciences, Kyushu</td>
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<td>Intracranial EEG recordings</td>
<td></td>
<td>University, Fukuoka, Japan</td>
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<td>O-37-3</td>
<td>The factors associated with efficacy of intravenous diazepam trial</td>
<td>Yoshihiro Tanaka</td>
<td>Department of Neurology and Stroke Treatment, Japanese Red Cross Kyoto Daiichi Hospital, Kyoto,</td>
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<td>for suspected cases of NCSE</td>
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<td>Japan</td>
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<td>O-37-4</td>
<td>Characteristics of EEG findings of myelin oligodendrocyte glycine</td>
<td>Kazutoshi Konomatsu</td>
<td>Department of Neurology, Tohoku University Graduate School of Medicine, Japan / Department of</td>
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<td>protein antibody-associated diseases</td>
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<td>Epileptology, Tohoku University Graduate School of Medicine, Japan</td>
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<td>O-37-5</td>
<td>Predictors of postsurgical outcome in mesial temporal lobe epilepsy</td>
<td>Temma Soga</td>
<td>Department of Neurology, Tohoku University Graduate School of Medicine, Japan / Department of</td>
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<td>with hippocampal sclerosis</td>
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<td>Epileptology, Tohoku University Graduate School of Medicine, Japan</td>
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<td>O-37-6</td>
<td>Status of use of intravenous lacosamide for epilepsy in our hospital</td>
<td>Koki Yoshizawa</td>
<td>Matsudo City General Hospital Department of Neurology, Japan</td>
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Parkinsonism and Related disorders 4

**O-38-1** Prevalence and associated factors of sarcopenia in patients with drug-naïve Parkinson disease
Junichiro Takahashi
Department of Neurology, The Jikei University School of Medicine, TOKYO, Japan

**O-38-2** Influence of individual heterogeneity on uncertainty of randomized trials in Parkinson's disease
Kazuto Tsukita
Department of Neurology, Graduate School of Medicine, Kyoto University, Japan / Advanced Comprehensive Research Organization, Teikyo University, Japan / Division of Sleep Medicine, Kansai Electric Power Medical Research Institute, Japan

**O-38-3** Presentation cancelled

**O-38-4** Triiodothyronine as a biomarker for distinguishing Parkinson's disease from multiple system atrophy
Tadashi Umehara
Department of Neurology, The Jikei University School of Medicine, Tokyo, Japan

**O-38-5** Low plasma lysophosphatidylcholine related to body weight and compositions in Parkinson's disease
Yasuaki Mizutani
Department of Neurology, Fujita Health University School of Medicine, Japan

**O-38-6** Risk factors of walking disability in Parkinson's disease
Shuro Kogawa
Department of Neurology, Kohka Public Hospital, Japan

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Parkinsonism and Related disorders 5

**O-39-1** The Experiences and Perceptions of Filipino Patients with Parkinson Disease
Gilean Gayle R. Tenefrancia
Saint Paul University Iloilo Philippines - College of Rehabilitation Sciences, Philippines
O-39-2  Istradefylline therapy for PD plus dystonia and the blood assay of xanthine derivatives  
Naomi Kanzato  
Okinawa prefectural southern medical center & children's medical center, Japan

O-39-3  Analysis of adverse events in Levodopa-Carbidopa Intestinal Gel therapy: A single-center study  
Ryohei Horiguchi  
Department of Neurology, Yokohama City University Medical Center, Japan / Emergency Department, Yokohama City University Medical Center, Japan

O-39-4  Effect of perception of vertical position on forward flexion posture in Parkinson's disease  
Makoto Shiraishi  
Division of Neurology, St. Marianna University School of Medicine, Japan / Kanto Parkinson's Study group, Japan

O-39-5  Effects of rasagiline on motor symptoms and MRI parameters in Parkinson's disease  
Shinji Saiki  
Department of Neurology, Juntendo University School of Medicine, Japan

O-39-6  Adverse Events of Opicapone Adjunctive Therapy in 60 Consecutive Patients  
Takeshi Bo  
Department of Neurology, Saitama Prefectural Rehabilitation Center, Japan

O-40 Oral Session 40  
June 3 (Sat) 10:15 ~ 11:45  Room 08 (Makuhari Messe International Conference Hall 1F 103)

Neuroimmunology 5  
Chair: Kaori Sakuishi  
Teikyo University Chiba Medical Center, Japan

O-40-1  Treatment with Immune checkpoint inhibitors for asymptomatic positive cases of anti-AChR antibodies  
Shohei Ikeda  
Department of Neurology, Toyota Kosei Hospital, Japan

O-40-2  Utility of the combination of SEPs and ABRs in the diagnosis of Bickerstaff brainstem encephalitis  
Takamichi Kanbayashi  
Teikyo University School of Medicine, Japan

O-40-3  Establishment of neuroimmunological disorder registry  
Sonoko Misawa  
Department of Neurology, Graduate School of Medicine, Japan

O-40-4  Gammaglobulin therapy induces a transient positive response to autoantibodies  
Wataru Shiraishi  
Kokura Memorial Hospital, Japan
### Oral Session 41

**June 3 (Sat) 10:15 ~ 11:45  Room 09 (Makuhari Messe International Conference Hall 1F 104)**

**Neuroimmunology 6**

*Chairs:* Sachiko Miyake  
Department of Immunology, Juntendo University School of Medicine, Japan  
Takahiro Iizuka  
Kitasato University School of Medicine, Department of Neurology, Japan

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<tr>
<th>Paper</th>
<th>Title</th>
<th>Authors</th>
<th>Institutions</th>
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<tr>
<td>O-41-1</td>
<td>Benign autoimmunity: the binding stability of self-peptides controls tissue antigen-specific Tregs</td>
<td>Youwei Lin</td>
<td>Department of Immunology, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Japan / Department of Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Japan</td>
</tr>
<tr>
<td>O-41-2</td>
<td>CLEC16A-driven mitophagy limits astrocyte pro-inflammatory activities</td>
<td>Atsushi Kadowaki</td>
<td>Ann Romney Center for Neurologic Diseases, Brigham and Women’s Hospital, Harvard Medical School, USA</td>
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<tr>
<td>O-41-3</td>
<td>Diagnostic strategy of autoimmune encephalitis based on a rat brain immunohistochemistry</td>
<td>Takahiro Iizuka</td>
<td>Department of Neurology, Kitasato University School of Medicine, Japan</td>
</tr>
<tr>
<td>O-41-4</td>
<td>Role of Epstein-Barr virus and Mycobacterium avium paratuberculosis in CNS demyelinating disorders</td>
<td>Davide Cossu</td>
<td>Juntendo University, Japan / Sassari University, Italy</td>
</tr>
<tr>
<td>O-41-5</td>
<td>withdrawn</td>
<td></td>
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<tr>
<td>O-41-6</td>
<td>Investigation of the pathogenesis of experimental myasthenia gravis using single cell RNA analysis</td>
<td>Hiroyuki Akamine</td>
<td>Department of Neurology, Graduate School of Medicine, Chiba University, Japan</td>
</tr>
</tbody>
</table>
**Neurorehabilitation 3**

**Chair**: Masaaki Hirayama  
Nagoya University Graduate School of Medicine, Japan

**O-42-1**  
Effects of mediVR KAGURA®-guided therapy on gait and upper limb in severe Parkinson's disease  
Keito Shinmoto  
mediVR Rehabilitation Center Tokyo, Japan

**O-42-2**  
Relationship between repeated admission for Parkinson's disease rehabilitation and ADL improvement  
Hideki Tokuoka  
Neurology, Hyogo Prefectural Central Rehabilitation Hospital, Japan

**O-42-3**  
Assessment of skeletal muscle mass in Parkinson's disease  
Eriko Yokoyama  
Akita prefectural center for rehabilitation and psychiatric medicine, Japan

**O-42-4**  
A nationwide survey of mobilization and management for complications in acute stroke rehabilitation  
Koichi Oki  
Department of Neurology, Stroke Center, Tokyo Saiseikai Central Hospital, Japan

**O-42-5**  
Institutional features of primary stroke centers on which COVID-19 impacted  
Naoki Oyama  
Department of Stroke Medicine, Kawasaki Medical School, Japan

**O-42-6**  
Early oral intake rehabilitation is associated with dysphagia improvement in acute ischemic stroke  
Tatsuo Miyamoto  
Division of Neurology, Sendai City Hospital, Japan

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**Peripheral neuropathy and Metabolic disorders 4**

**Chair**: Michiaki Koga  
Department of Neurology and Clinical Neuroscience, Yamaguchi University Graduate School of Medicine, Japan

**O-43-1**  
The analysis of peripheral blood lymphocyte subsets in Guillain-Barré syndrome acute phase  
Baku Hashimoto  
Saitama medical center Neurology, Japan
Target antigens of bulbar palsy in Guillain-Barré syndrome: Glycolipid complexes with GT1a
Michiaki Koga
Department of Neurology and Clinical Neuroscience, Yamaguchi University Graduate School of Medicine, Japan

Neurological disorder of COVID-19
Hiroki Nakayama
Metropolitan Bokutoh Hospital neurology, Japan

Multicenter study on the incidence of Guillain-Barré Syndrome during the COVID-19 pandemic
Toshiyuki Hayashi
Department of Neurology, Nippon Medical School Hospital, Japan

Paradoxical hypokalemia is common in non-periodic hypokalemic paralysis
Akiyuki Hiraga
Department of Neurology, Chiba Rosai Hospital, Japan

Clinical characteristics of ceftriaxone-induced encephalopathy: a case series of three patients
Akihiro Tanaka
Department of Neurology, Kansai Rosai Hospital, Japan

Differential diagnosis of PSP using STN area and susceptibility measured by QSM
Shotaro Haji
Department of Neurology, Tokushima University Graduate School of Biomedical Sciences, Japan

A study on the rate of progression of midbrain atrophy for each type in PSP
Ryu Yokoyama
Department of neurology, Saitama Medical University, Japan

Midbrain atrophy detected by MRI in Parkinson's disease
Wataru Sako
Department of Neurology, Juntendo University School of Medicine, Japan

Automated analysis of corpus callosum in neurodegenerative diseases
Jinsoo Koh
Department of Neurology, Wakayama Medical University, Japan
O-44-5 Availability of CIS ratio in differentiating DLB from AD depending on MMSE score
Yuki Asahara
Research Team for Neuroimaging, Tokyo Metropolitan Institute of Gerontology, Japan

O-44-6 Neural correlates of pareidolia phenomenon in Lewy body disease
Michiko Izumi
Department of Neurology, University of Chiba, Japan / Medical Center for Dementia, Chiba University Hospital, Japan

O-45 Oral Session 45
June 3 (Sat) 10:15 ~ 11:45 Room 13 (Tokyo Bay Makuhari Hall 2F No. 7, 8)
Cerebrovascular disease 6
Chair: Toru Yamashita
Department of Neurology, Okayama University, Japan

O-45-1 Factors affecting functional prognosis after acute reperfusion therapy
Ichiro Deguchi
Department of Neurology and Cerebrovascular Medicine, Saitama Medical University International Medical Center, Japan

O-45-2 Association Between Optimal Mismatch Ratio And Favorable Outcome By ASPECTS And Ischemic Core Volume
Hiroyuki Kida
Department of Neurology, National Cerebral and Cardiovascular Center, Suita, Japan / Department of Cerebrovascular Medicine, National Cerebral and Cardiovascular Center, Suita, Japan

O-45-3 Assessment with histopathological features of retrieved thrombi and D-dimer in acute ischemic stroke
Jo Matsuzaki
Department of Stroke Neurology & Neuroendovascular surgery, Moriguchi-Ikuno Memorial Hospital, Japan

O-45-4 Treatment results of IV rt-PA in patients with stroke and low ASPECTS: K-NET registry analysis
Naoya Kamimura
Department of Neurology, Yokohama Brain and Spine Center, Japan

O-45-5 Is mechanical thrombectomy effective in stroke more than 16 hours after last well known time?
Takehiro Katano
Department of Neurology, Nippon Medical School, Japan

O-45-6 Distal trans-radial approach for neuroendovascular intervention
Yoshinori Kurauchi
Sapporo Shiroishi Memorial Hospital Neurology, Japan
Neurogenetics and Gene therapy 2

**O-46-1** Sustained therapeutic benefits by transient reduction of TDP-43 using ENA-modified ASOs in ALS mice
Toshihide Takeuchi
Life Science Research Institute, Kindai University, Japan / Osaka University Graduate School of Medicine, Japan

**O-46-2** Cellular type-selective gene delivery system into the brain using antibody-gene binding peptides
Hiroshi Kida
Department of Anatomy, School of Medicine, Fukuoka University, Japan

**O-46-3** Development of chemical modifications to overcome neurotoxicity of antisense oligonucleotide
Takayuki Kuroda
Department of Neurology and Neurological Science, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University, Japan

**O-46-4** Rapid screening of repeat expansion diseases using nanopore sequencer
Satoko Miyatake
Department of Clinical Genetics, Yokohama City University Hospital, Japan / Department of Human Genetics, Yokohama City University Graduate School of Medicine, Japan

**O-46-5** Genome-Wide Association Study by Proxy of Alzheimer's Disease (AD) Risk in a Japanese Cohort Study
Makiko Taira
Department of Integrative Genomics, Tohoku Medical Megabank Organization, Tohoku University, Japan

**O-46-6** Development of novel gene therapy for MELAS by editing mitochondrial DNA
Ryuji Hata
Fujita Health Univ. School of Medicine Dept. of Anayomy, Japan