### AO-02 Oral Presentation Award Session (Basic Research)

**Chair:** Tatsushi Toda  
Department of Neurology, Graduate School of Medicine, The University of Tokyo

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<th>Affiliation</th>
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</table>
| ★   | **AO-02-1**  Alpha-synuclein propagation via olfactory pathway in non-human primate model | Masanori Sawamura  
Department of Neurology, Graduate school of Medicine, Kyoto University, Japan |
| ★   | **AO-02-2**  BBB-crossing drug delivery system by modulating tight junction at brain microvascular endothelium | Satoshi Zeniya  
Department of Neurology and Neurological Science, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University (TMDU), Japan |
| ★   | **AO-02-3**  Targeting Tyro3 ameliorates a model of PGRN-mutant FTLD-TDP via tau-mediated synaptic pathology | Kyota Fujita  
Department of Neuropathology, Medical Research Institute, Tokyo Medical and Dental University, Japan |
| ★   | **AO-02-4**  A novel cell transplantation therapy for ALS using OPCs expressing scFv recognizing misfolded SOD1 | Sumio Minamiyama  
Department of Neurology, Shiga University of Medical Science, Japan / Department of Neurology, Kyoto University Graduate school of Medicine, Japan |
| ★   | **AO-02-5**  Wide distribution of alpha-synuclein oligomers in MSA brain detected by proximity ligation | Hiroaki Sekiya  
Division of Neurology/Molecular Brain Science, Kobe University Graduate School of Medicine, Japan / Department of Neurology, Hyogo Prefectural Amagasaki General Medical Center, Japan |
| ★   | **AO-02-6**  CCR2-positive peripheral blood macrophages play protective roles in ALS mouse model | Wataru Shiraishi  
Department of Neurology, Neurological Institute, Graduate School of Medical Sciences, Kyushu University, Japan |

### O-01 Oral Session 01

**Chair:** Haruo Hanyu  
Department of Geriatric Medicine, Tokyo Medical University

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<th>No.</th>
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| ★   | **O-01-1**  Association between cognitive function and cerebrospinal fluid orexin A levels in Alzheimer disease | Yuta Inagawa  
Department of Geriatric Medicine, Tokyo Medical University |
O-01-2 Effect of cognitive reserve on interaction between CSF biomarker and cognitive function
Akira Kuzuya
Department of Neurology, Kyoto University Graduate School of Medicine

O-01-3 Relationship between adiponectine and AD pathophysiology
Noriyuki Kimura
Department of Neurology, Oita University, Faculty of Medicine

O-01-4 New serum Biomaker for diagnosing Alzheimer's disease using new NMR techniques
Mineo Yamazaki
Dept. of Neurology, Nippon Medical School Chiba Hokuso Hospital / Dept. of Neurology, Nippon Medical School

O-01-5 In vivo depiction of alpha-7 nicotinic receptors in the Meynert nucleus in aging vs. dementia
Yasuomi Ouchi
Dept of Biofunctional Imaging, Hamamatsu University School of Medicine

O-01-6 Cerebrospinal fluid analysis of Alzheimer's clinical syndrome
Kensaku Kasuga
Department of Molecular Genetics, Brain Research Institute, Niigata University

O-02 Oral Session 02
May 22 (Wed) 15:35 ~ 17:05 Room 5 (Osaka International Convention Center 10F Conference Room 1005-1007)

Neuroimmunology (Various neuroimmunogical diseases)
Chair: Makoto Yoneda
Fukui Prefectural University

O-02-1 Clinical features of autoimmune autonomic ganglionopathy in Japan
Akihiro Mukaino
Department of Molecular Neurology and Therapeutics Kumamoto University Hospital

O-02-2 A new murine model to understand pathologic mechanisms of autoimmune autonomic ganglionopathy
Makoto Yamakawa
Department of Neurology, Graduate School of Medical Sciences, Kumamoto University

O-02-3 Autoimmune GFAP astrocytopathy is meningoencephalomyelitis with characteristic clinical features
Akio Kimura
Department of Neurology and Geriatrics, Gifu University Graduate School of Medicine

O-02-4 Clinical features of anti glutamic acid decarboxylase (GAD) antibody in encephalitis/encephalopathy
Kohei Muto
Kurashiki Central Hospital
O-02-5  Study on pathology and epidemiology related to neurological symptoms after HPV vaccination
Hitoshi Arata
Department of Neurology and Geriatrics, Kagoshima University Graduate School of Medical and Dental Sciences

O-02-6  Clinical charactalitis of 9 ADEM patients in our hospital
Reina Kawamura
Tokai University Hachoji Hospital neurology

O-03  Oral Session 03
May 22 (Wed) 15:35 ~ 17:05  Room 6 (Osaka International Convention Center 10F Conference Room 1009)
Parkinsonism and Related disorders (Deveice assisted therapy)
Chair: Yasuyuki Okuma
Department of Neurology, Juntendo University Shizuoka Hospital

O-03-1  Examination of Levodopa Equivalent Daily Amplitude in the STN-DBS for the PD patient
Katsuya Abe
Department of Neurology, Yokohama City University Medical Center

O-03-2  Analysis of PEG-J associated complications in 14 adult patients treated with LCIG treatment
Munehisa Shimamura
Department of Neurology, Graduate School of Medicine, Osaka University / Department of Health Development and Medicine, Graduate School of Medicine, Osaka University

O-03-3  Plasma concentration of levodopa during LCIG therapy
Yuki Yamanishi
Department of Neurology and Clinical Pharmacology Ehime University Graduate School of Medicine

O-03-4  Efficacy of levodopa-carbidopa intestinal gel for 19 patients with Parkinson's disease for 52 weeks
Hideki Shimura
Juntendo University Urayasu Hospital

O-03-5  How to change the program for Parkinson disease patients with Subthalamic Deep Brain Stimulation
Rui Yamada
Department of Neurology, Yokohama City University Medical Center

O-03-6  Reprogramming of bilateral GPi-DBS improves symptoms in patients with parkinson's disease
Masayoshi Yamamoto
Department of Neurology, Kitano Hospital, The Tazuke Kofukai Medical Research Institute
### O-04 Oral Session 04
May 22 (Wed) 15:35 ~ 17:05  Room 7 (Osaka International Convention Center 10F Conference Room 1008)

#### Cerebrovascular disease (Clinical research 1)
Chair: Yasuyuki Iguchi
Department of Neurology, The Jikei University School of Medicine

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<th>Title</th>
<th>Presenter</th>
<th>Institution</th>
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<tr>
<td>O-04-1</td>
<td>Subacute phase BP variability and a low ABI independently predict with 3-month outcome with AIS</td>
<td>Hiroyuki Naito</td>
<td>Department of Clinical Neuroscience and Therapeutics, Hiroshima University Graduate School of Biomedical and Health Sciences</td>
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<tr>
<td>O-04-2</td>
<td>Effect of combination of clopidogrel and proton pump inhibitors on outcome in acute ischemic stroke</td>
<td>Tomoaki Ikeda</td>
<td>Department of Neurology, Stroke Center, Saiseikai Kumamoto Hospital</td>
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<tr>
<td>O-04-3</td>
<td>Outcomes of intravenous rt-PA therapy for penetrating artery infarction</td>
<td>Yuichi Masuda</td>
<td>Department of Neurology, Kyoto Medical Center</td>
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<tr>
<td>O-04-4</td>
<td>Outcome of mild ischemic stroke patients with rt-PA treatment</td>
<td>Ryota Torii</td>
<td>Department of Neurology, Kasugai City Hospital / Stroke Center, Kasugai City Hospital</td>
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<tr>
<td>O-04-5</td>
<td>Intracerebral hemorrhage with direct oral anticoagulant is not mild</td>
<td>Junichiro Takahashi</td>
<td>Department of Neurology, Jikei University School of Medicine</td>
</tr>
<tr>
<td>O-04-6</td>
<td>The effect of Dabigatran on protease-activated receptor 1 in patients with Non-valvular AF</td>
<td>Kiyotaka Oi</td>
<td>Division of Neurology and Gerontology, Department of Internal Medicine, Iwate Medical University</td>
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### O-05 Oral Session 05
May 22 (Wed) 15:35 ~ 17:05  Room 8 (Osaka International Convention Center 10F Conference Room 1004)

#### Neuroimmunology (Basic research)
Chair: Takashi Yamamura
Department of Immunology, National Institute of Neuroscience

Commentator: Qiu Wei
The Third Affiliated Hospital of Sun Yat-Sen University, Guangzhou, Guangdong Province

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<tr>
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<tr>
<td>O-05-1</td>
<td>Gray but not white matter astroglia-specific connexin 43 ablation ameliorates neuroinflammation</td>
<td>Hayato Une</td>
<td>Department of Neurology, Neurological institute, Graduate School of Medical Sciences, Kyushu University, Japan / Department of Neurology, Iizuka Hospital, Japan</td>
</tr>
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</table>
O-05-2  Disease-specific TCRs recognize CMV in Japanese MS with HLA-DRB1*04:05; a novel approach with GLIPH
Fumie Hayashi
Department of Neurology, Graduate School of Medical Sciences, Kyushu University, Japan

O-05-3  Gut microbiota dysbiosis leading to the development and progression of multiple sclerosis
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

O-05-4  Effect of immunogenetic background on JCV infection in Japanese patients with multiple sclerosis
Yuri Nakamura
Department of Neurology, Neurological Institute, Graduate School of Medical Sciences, Kyushu University, Japan

O-05-5  T cell response to myelin oligodendrocyte glycoprotein (MOG) in patients with anti-MOG antibody
Hirohiko Ono
Department of Neurology, Tohoku University School of Medicine, Japan

O-05-6  A novel model of primary progressive multiple sclerosis by oligodendrogial mutant alpha-synuclein
Toru Saiga
Department of Neurology, Neurological Institute, Graduate School of Medical Sciences, Kyushu University, Japan

O-06  Oral Session 06
May 22 (Wed) 15:35 ~ 17:05  Room 9 (Osaka International Convention Center 12F Conference Hall)

Parkinsonism and Related disorders (Basic research)
Chair: Masahiro Nagai
Clinical therapeutic trial center, Ehime university hospital
Commentator: Seung-jae Lee
Department of Biomedical Sciences, Seoul National University College of Medicine

O-06-1  Development of FABP3 ligands inhibiting alpha-synuclein oligomerization in Parkinson's disease
Kohji Fukunaga
Dept Pharmacology, Tohoku University Grad Sch Pharm Sci, Japan

O-06-2  Parkin/PINK1 mouse modeling revealed no abnormal accumulation of mitochondria but increasing Ca2+
Tohru Kitada
Otawa-Kagaku
O-06-3  Parkin mutation analysis in our University and the phenotype of Parkin knockout mice
Shigeto Sato
Department of Neurology, Juntendo University School of Medicine, Japan

O-06-4  Mechanistic of Cadmium Induced Dopamine Dysfunction in pc12 Cells & in Rat Brain: Role of Quercetin
Richa Gupta
CSIR- indian institute of Toxicology Research, India

O-06-5  In advanced Parkinsonism, Lee Silverman Voice Treatment is effective for both swallowing and speech
Sonoko Nozaki
Department of Neurology, Kansai Rosai Hospital, Japan /Department of Rehabilitation, Kansai Rosai Hospital, Japan

O-06-6  Cognitive Behavior Therapy for Dystonia
Takashi Sakamoto
Department of Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Japan

O-07  Oral Session 07
May 22 (Wed) 15:35 ~ 17:05  Room 10 (Osaka International Convention Center 12F Grande Toque)

Epilepsy
Chair : Kiyohito Terada
NHO Shizuoka Institute of Epilepsy and Neurological Disorders
Commentator : Masao Nagayama
Department of Neurology, International University of Health and Welfare Graduate School of Medicine

O-07-1  Perampanel administration to the Q129 and Q113 DRPLA transgenic mice
Tomoko Toyota
Department of Neurology, University of Occupational and Environmental Health School of Medicine, Japan

O-07-2  Magnetic Resonance Imaging (MRI) findings in non-convulsive epileptic state (NCSE)
Oscar A. Martinez
Hospital Britanico de Buenos Aires, Argentina

O-07-3  Change in autonomic function by photic stimulation during conventional EEG recordings in epilepsy
Masako Kinoshita
Department of Neurology, Utano National Hospital, National Hospital Organization, Japan

O-07-4  Dreamy state, delusions, audio-visual hallucinations, and metamorphopsia in a case of epilepsy
Keiko Hatano
Department of Neurology, Japanese Red Cross Medical Center, Japan
Efficacy & Tolerability of Brivaracetam in the Treatment of Status Epilepticus: A Systematic Review
Kevin Michael C. Moalong
Department of Neurosciences, College of Medicine, Philippine General Hospital, University of the Philippines Manila, Philippines

Scalp-recorded direct current shifts precede rhythmic slow activities in status epilepticus
Hiroya Ohara
Department of Neurology, Minami Nara General Medical Center, Japan / Department of Neurology, Nara Medical University School of Medicine, Japan

O-08 Oral Session 08
May 22 (Wed) 15:35 ~ 17:05 Room 11 (Osaka International Convention Center 12F Conference Room 1202)

Neuroscience1
Chair: Hitoshi Aizawa
Department of Neurology, Tokyo Medical University
Commentator: Thomas Klockgether
Department of Neurology, University of Bonn

Impairment of insulin signaling by Alzheimer's amyloid-beta protein and protection by apomorphine
Yasumasa Ohyagi
Department of Neurology and Geriatric Medicine, Ehime University, Japan

PLA2G6 regulates neuronal functions and a-synuclein stability through the membrane remodeling
Akio Mori
Department of Neurology, Juntendo University School of Medicine, Japan / Department of Neurology, Juntendo University Graduate School of Medicine, Japan

Elucidating axonal pathophysiology under fused in sarcoma (FUS)-mutant ALS motor neurons
Tetsuya Akiyama
Department of Neurology, Tohoku University Graduate School of Medicine, Japan

The loss of Pgk in Drosophila causes locomotive defects with dopaminergic neuronal degeneration
Takashi Kasai
Department of Neurology, Kyoto Prefectural University of Medicine, Japan

Blood-nerve barrier disruption induced by immunoglobulin G from Guillain-Barré syndrome patients
Fumitaka Shimizu
Department of Neurology and Clinical Neuroscience, Yamaguchi University Graduate School of Medicine, Japan
### O-08
The effect of NMO-IgG and anti-IL-6 receptor monoclonal antibody (SA237) for the Blood-Brain Barrier

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

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### O-09 Oral Session 09

**Clinical trial and Regenerative medicine 1**  
Chair: Takanori Yokota  
Tokyo Medical and Dental University

#### O-09-1
Long-term efficacy and safety of eculizumab in Japanese patients with myasthenia gravis  
Hiroyuki Murai  
Department of Neurology, International University of Health and Welfare

#### O-09-2
Placebo-controlled study of safinamide for Parkinson disease with wearing off  
Nobutaka Hattori  
Department of Neurology, Juntendo University School of Medicine

#### O-09-3
Association between MRI and clinical features in transient global amnesia: A multicenter study  
Kyoko Higashida  
Department of Neurology, Osaka University Graduate School of Medicine

#### O-09-4
Progression status of Japan Early-stage Trial of high dose methylcobalamin for ALS (JETALS)  
Ryosuke Oki  
Department of Clinical Neuroscience, Institute of Health Biosciences, University of Tokushima Graduate School, Tokushima, Japan.

#### O-09-5
Stroke Recurrence and Timing of Initiating DOAC after Acute Ischemic Stroke with Atrial Fibrillation  
Eiichi Nomura  
Department of Neurology, Hiroshima City Hiroshima Citizens Hospital / Department of Neurology, Brain Attack Center Ota Memorial Hospital

#### O-09-6
Natalizumab every 6 weeks dosing: efficacy and safety in 104 Japanese multiple sclerosis patients  
Kyoko Saida  
Kansai Multiple Sclerosis Center / Irino Clinic / Kyoto Hakuikai Hospital
O-10 Oral Session 10

May 22 (Wed) 15:35 ~ 17:05  Room 13 (Osaka International Convention Center 8F Conference Room 801-802)

Clinical Neurophysiology1

Chair: Masao Matsuhashi
Department of Epilepsy, Movement Disorders and Physiology, Kyoto University Graduate School of Medicine

Commentator: Satoshi Kaneko
Kansai Medical University

O-10-1 Human motor control network as revealed by CCEP connectivity analysis of the negative motor area
Masaya Togo
Kyoto University Graduate School of Medicine, Department of Neurology, Japan

O-10-2 Changes of striatal serotonergic transmission in a rat model of levodopa-induced dyskinesia
Rie Tohge
Department of Neurology, Kansai Medical University, Japan

O-10-3 Cluster analysis can help classify the ictal direct current (DC) shifts into 2 types
Shunsuke Kajikawa
Department of Neurology, Kyoto University Graduate School, Japan

O-10-4 AVXS-101 Gene-Replacement Therapy in Presymptomatic Spinal Muscular Atrophy (SMA): Study Update
Bryan E. Mcgill
AveXis Inc., USA

O-10-5 Effect of expanded repeats and aging on disease progress in benign adult familial myoclonus epilepsy
Shuichiro Neshige
Department of Neurology, Kyoto University Graduate School of Medicine, Japan / Department of Clinical Neuroscience and Therapeutics, Hiroshima University Graduate School of Biomedical and Health Sciences, Japan

O-10-6 AVXS-101 Gene Replacement for Spinal Muscular Atrophy Type 1 (SMA1): Pivotal Study (STRIVE) Update
Douglas M. Sproule
AveXis, Inc., USA

O-11 Oral Session 11

May 22 (Wed) 15:35 ~ 17:05  Room 14 (Osaka International Convention Center 7F Conference Room 701-702)

Immune-mediated neuropathy

Chair: Takashi Kanda
Department of Neurology and Clinical Neuroscience, Yamaguchi University Graduate School of Medicine

O-11-1 The present status and issues of maintenance treatment of CIDP
Takamichi Kanbayashi
Department of Neurology, Teikyo University School of Medicine
**O-11-2**  Nationwide epidemiologic survey of Crow-Fukase syndrome in Japan
Tomoki Suichi
Department of Neurology, Graduate School of Medicine, Chiba University

**O-11-3**  Clinical features of Bickerstaff brainstem encephalitis with anti-GQ1b related antibodies
Keisuke Yoshikawa
Department of Neurology, Kindai University Faculty of Medicine

**O-11-4**  Antecedent infections in Fisher syndrome: Determinant of clinical features and pathogenesis
Michiaki Koga
Department of Neurology and Clinical Neuroscience, Yamaguchi University Graduate School of Medicine

**O-11-5**  Pathogenesis of CIDP model mice
Masahiro Iijima
Department of Advanced Medicine, Nagoya University Hospital / Department of Neurology, Nagoya University Graduate School of Medicine

**O-11-6**  Clinical Features of CIDP with Higher Efficacy to IVIG
Yuki Fukami
Department of Neurology, Nagoya University Graduate School of Medicine