

Cerebrovascular disease (biomarker)

Chair : Shigeru Fujimoto

Division of Neurology, Department of Medicine, Jichi Medical University

Commentator : Kazutoshi Nishiyama

Department of Neurology, Kitasato University School of Medicine

Pe-001-1 Gut dysbiosis causes lipopolysaccharide-mediate inflammation in cerebral ischemia in diabetic mice

Naohide Kurita

Department of Neurology, Juntendo University School of Medicine, Tokyo, Japan

Pe-001-2 Modification of RANKL-based peptide, MHPI, for clinical use in ischemic stroke

Munehisa Shimamura

Department of Neurology, Osaka University / Department of Health Development and Medicine, Osaka University

Pe-001-3 Neuroprotective effects of dimethyl fumarate on transient middle cerebral artery occlusion in mice

Kazushi Minami

Department of Neurology, Keio University School of Medicine

Pe-001-4 Effects of edaravone on NO OH- metabolism and nNOS activity during cerebral ischemia and reperfusion

Yasuo Ito

Department of Neurology, Saitama Medical University

Pe-001-5 MMP-9 upregulation is attenuated by TLR2 antagonist T2.5 after OGDR in rat BMECs

Meng Qiang

Department of neurology, the first people's hospital of Yunnan province, China

Cerebrovascular disease (therapeutics)

Chair : Yasuo Terayama

Division of Neurology and Gerontology, Department of Internal Medicine, School of Medicine, Iwate Medical University

Commentator : Toshiki Mizuno

Department of Neurology, Kyoto Prefectural University of Medicine

Pe-002-1 Chronic cerebral hypoperfusion activates AIM2 and NLRP3-inflammasome

Hirofumi Matsuyama

Department of Neurology, Mie University Graduate School of Medicine

Pe-002-2 Morphological dynamics of microglia in the cerebral vascular change induced by chronic hypertension

Takashi Koizumi

Department of Neurology, Kyoto Prefectural University of Medicine

Pe-002-3 Constructing CADASIL model using transgenic *Drosophila* bearing chimeric forms of NOTCH3 and JAG1

Ikuko Mizuta

Department of Neurology, Graduate School of Medical Science, Kyoto Prefectural University of Medicine

Pe-002-4 Histopathologic features of three autopsied patients with CADASIL

Rie Saito

Department of Pathology, Brain Research Institute, Niigata University

Pe-002-5 Pathologic findings of tail arteries in CADASIL model mice

Akihiko Ueda

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

Pe-002-6 Repetitive Transcranial Magnetic Stimulation for Lower Extremity Function & Gait Recovery in Stroke

Jeryl T. Yu

St. Luke's Medical Center, Philippines

Pe-003 English Poster Session

En

May 23 (Wed) 17:40 ~ 18:46

Poster Session (Royton Sapporo [Royton Hall] 3F)

Cerebrovascular disease (IVR)

Chair : Masafumi Ihara

Department of Neurology, National Cerebral and Cardiovascular Center

Commentator : Atsushi Shiraishi

Emergency and Trauma Center, Kameda Medical Center

Pe-003-1 Short term outcomes of mechanical thrombectomy for acute ischemic stroke about elderly patients

Tatsuo Ihara

Department of Neurology, Otaru General Hospital

Pe-003-2 Clinical investigations of cases transferred to our hospital for cerebral thrombectomy

Kentaro Tatsuno

St.Marianna University Toyoko Stoke center

Pe-003-3 Correlation of clinical characteristics and histological clot composition in acute ischemic stroke

Shiro Yamamoto

Division of Stroke Medicine, Osaka National Hospital

Pe-003-4 Change in NIHSS as a useful marker for effectiveness of thrombectomy after t-PA in elderly patients

Shigeru Nogawa

Department of Neurology, Tokai University Hachioji Hospital

Pe-003-5 The clinical findings and treatment of bilateral vertebral artery dissection

Toshiyasu Ogata

Department of Neurology, Fukuoka University, Japan

Pe-003-6 Eight and a Half Syndrome with Hemiparesis: a possible Nine Syndrome

Kim Lim Koo

Department of Medicine, Hospital Enche' Besar Hajjah Khalsom, Kluang, Johor, Malaysia

Pe-004 English Poster Session

En

May 23 (Wed) 17 : 40 ~ 18 : 46

Poster Session (Royton Sapporo [Royton Hall] 3F)

Dementia (Risk factors)

Chair : Atsushi Iwata

Department of Neurology, Graduate School of Medicine, The University of Tokyo

Commentator : Takeshi Kawarabayashi

Department of Neurology, Institute of Brain Science, Hiroaki University Graduate School of Medicine

Pe-004-1 SLOWLY PROGRESSIVE AMNESIA WITHOUT ALZHEIMER'S DISEASE FEATURES

Naoki Kasahata

Division of Neurology, Department of Medicine, Tokyo Metropolitan Ohtsuka Hospital

Pe-004-2 Neuropsychological features of the subjects involved in Initial Phase Intensive Support Team action

Daiki Takano

Department of Neurology, Yokohama General Hospital

Pe-004-3 ANALYSIS OF CONFIRMED OR SUSPECTED ABUSED ELDER CASES IN ABUSE COMMITTEE

Norimasa Mitsuma

Meitetsu Hospital

Pe-004-4 Validation of our original dementia rating (modified Clinical Dementia Rating Japan)

Fumitoshi Niwa

Kyoto Prefectural University of Medicine North Medical Center / Kyoto Prefectural University of Medicine, Department of Neurology

Pe-004-5 A systematic review on dementia risk models and predictive performance

Xiao-he Hou

Department of Neurology, Qingdao Municipal Hospital, Qingdao University, China

Pe-004-6 Predictive factors of artificial feeding in sporadic Creutzfeldt-Jakob disease

Pei-chen Hsieh

Chang Gung Memorial hospital, Taiwan

Parkinsonism and Related disorders (Clinical research)

Chair : Shinsuke Fujioka

Department of Neurology, Fukuoka University

Commentator : Francisco Cardoso

UFMG, Brazil

Pe-005-1 Pharmacological Comparison of Delirium by Levodopa Infusion to Parkinson-Related Disease Patients

Mitsuo Kodama

Department of Neurology, Federation of National Public Service Personnel Mutual Aid Association, Hirakata Kohsai Hospital

Pe-005-2 The pharmacological effect of selective AMPA-R antagonist for cerebellar involuntary movements

Naomi Kanzato

Department of Neurology, Okinawa Prefectural Southern Medical Center & Children's Medical Center

Pe-005-3 Disease progression in Parkinson's disease

Yasushi Osaki

Department of Neurology, Kochi Medical School

Pe-005-4 Characteristics and diagnosis of leg tremors in primary orthostatic tremor and Parkinson's disease

Jun Tashiro

Sapporo Parkinson MS Neurological Clinic

Pe-005-5 Digenic mutations of parkin/PINK1 or LRRK2/PINK1 in familial Parkinson's disease

Kenya Nishioka

Department of Neurology, Juntendo University School of Medicine

Pe-005-6 LRRK2 GTPase domain variants in Dementia

Shin Hui Ng

National Neuroscience Institute, Singapore

Parkinsonism and Related disorders (Symptoms)

Chair : Yuji Saitoh

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

Commentator : Hideto Miwa

Miwa clinic

Pe-006-1 123I-MIBG myocardial scintigraphy predicts language function in de novo Parkinson's disease

Hidetomo Murakami

Department of Neurology, School of Medicine, Showa University

Pe-006-2 Defining the visual illusions in Parkinson's disease:
kinetopsia and object misidentification
Yoshiyuki Nishio
Department of Behavioral Neurology and Cognitive Neuroscience, Tohoku University School of
Medicine

Pe-006-3 Impaired working memory network and default mode network in
Parkinson's disease
Takaaki Hattori
Department of Neurology and Neurological Science, Tokyo Medical and Dental University

Pe-006-4 The language and speech symptom of corticobasal syndrome
Emiko Horiuchi
Department of Neurology Sagami Hospital

Pe-006-5 Impact of Rate-Onset REM Sleep Behavior Disorder on Non-Motor
Symptoms in Parkinson's Disease
Yuji Saitoh
Department of Neurology, National Center Hospital, National Center of Neurology and
Psychiatry

Pe-006-6 Orthostatic hypotension and cognitive function in Parkinson disease
Soo Young Kim
Department of Neurology, Chungnam National University Hospital, Korea

Pe-007 English Poster Session

En

May 23 (Wed) 17:40 ~ 18:46 Poster Session (Royton Sapporo [Royton Hall] 3F)

Cerebellar ataxia and others (Quantitative assessment and other)

Chair : Kenichi Yasui
Department of Neurology, Hakui Hospital
Commentator : Peter K. Todd
University of Michigan, USA

Pe-007-1 Quantitative measurement of ataxic gait with a triaxial accelerometer:
for clinical application
Akira Matsushima
JA Nagano Koseiren Keikeu-Misayama Rehabilitation Center Keikeu Hospital / Department of
Medicine (Neurology and Rheumatology), Shinshu University School of Medicine

Pe-007-2 Quantitative analysis of ataxia using a novel evaluation device in the
patients with SCD
Atsushi Hashizume
Nagoya University, department of Neurology

Pe-007-3 Hereditary leukoencephalopathy with brain stem and spinal cord
involvement
Yohei Iguchi
Dept. of Neurology, Nagoya Univ.

Pe-007-4 The clinical features of multisegmental amyotrophy due to superficial siderosis

Ryo Morishima

Department of Neurology, Tokyo Metropolitan Neurological Hospital

Pe-007-5 Clinical and genetic analysis of three Japanese SPG3A families

Naoki Takegami

Department of Neurology, International University of Health and Welfare Mita Hospital, Tokyo, Japan / Department of Neurology, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan

Pe-007-6 Adult-onset Krabbe disease in two generations of a Chinese pedigree

Tongxia Zhang

Qilu Hospital of Shandong University, China

Pe-008 English Poster Session

En

May 23 (Wed) 17:40 ~ 18:46

Poster Session (Royton Sapporo [Royton Hall] 3F)

Parkinsonism and Related disorders (Molecular biology)

Chair : Hidefumi Ito

Department of Neurology, Wakayama Medical University

Commentator : Miho Murata

National Center of Neurology and Psychiatry

Pe-008-1 A novel mutation of LRRK2 p.V1447M in familial Parkinson's disease

Aya Ikeda

Department of Neurology, Juntendo University School of Medicine

Pe-008-2 High throughput assays to detect disease-specific abnormalities in familial PD-iPSC derived neurons

Kei-ichi Ishikawa

Department of Neurology, Juntendo University School of Medicine / Center for Genomic and Regenerative Medicine, Juntendo University School of Medicine / Department of Neurology, Koto Hospital

Pe-008-3 Alpha-synuclein pathology in phrenic nerves of Lewy body disease

Kanako Komatsu

Department of Pathology and Laboratory Medicine, National Center Hospital, National Center of Neurology and Psychiatry

Pe-008-4 The analysis of LRRK2 distribution in postmortem human brain

Akiko Uchino

Department of Neurology, Kitasato University Kitasato Institute Hospital / Department of Neuropathology (Brain Bank for Aging Research), Tokyo Metropolitan Geriatric Hospital & Institute of Gerontology

Pe-008-5 Genotype-phenotype correlations of familial Parkinson's disease harboring parkin and PINK1 mutations

Arisa Hayashida

Department of Neurology, Juntendo University School of Medicine

- Pe-008-6** Chronic Mild Motor Deficit and Ultrastructure of Limbic, Extrapyramidal and Motor Areas in Rat Brain
Mzia Zhvania
 Iliia State University, Georgia / I. Beritashvili Center of Experimental Biomedicine, Georgia

Pe-009 English Poster Session

En

May 23 (Wed) 17:40 ~ 18:46 Poster Session (Royton Sapporo [Royton Hall] 3F)

Neuroimmunology (MS and clinical research2)

Chair : Masaaki Niino
 Department of Clinical Research, Hokkaido Medical Center
 Commentator : Yuko Shimizu
 Department of Neurology Tokyo Women's Medical University

- Pe-009-1** The role of PD-1 expressing T cells in the cerebrospinal fluid of MS and NMO
Norio Chihara
 Division of Neurology, Kobe University Graduate School of Medicine

- Pe-009-2** Clinical feature of MOG-IgG⁺ disorder in Japan; survey of 369 pediatric and adult cases
Kimihiko Kaneko
 Department of Neurology, Tohoku University, Sendai, Japan

- Pe-009-3** Spinal cord atrophy in Japanese multiple sclerosis and neuromyelitis optica spectrum disorders
Yuri Nakamura
 Department of Neurology, Neurological Institute, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan

- Pe-009-4** Immunological study of pregnancy outcome in multiple sclerosis with assisted reproductive technology
Yuko Shimizu
 Department of Neurology, Tokyo Women's Medical University

- Pe-009-5** Environmental factors for Japanese multiple sclerosis
Ayako Sakoda
 Department of Neurology, Neurological Institute, Graduate School of Medical Sciences, Kyushu University

- Pe-009-6** Clinical and genetic features of Japanese MS and NMOSD based on Japan MS biobank data
Mitsuru Watanabe
 Department of Neurology, Neurological Institute, Graduate School of Medical Sciences, Kyushu University

- Pe-009-7** The role of mitochondrial dysfunction in EAE; 1st report
Davide Cossu
 Juntendo University School of Medicine, Japan

Myopathy (IBM)

Chair : Satoshi Yamashita

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

Commentator : Fumiaki Saito

Teikyo University, Department of Neurology

Pe-010-1 Clinical characteristics of sporadic inclusion body myositis with anti-NT5CIA antibodies

Satoshi Yamashita

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

Pe-010-2 Human Leukocyte type antigen (HLA) typing in patients with polymyositis and inclusion body myositis

Akatsuki Kubota

Department of Neurology, The University of Tokyo

Pe-010-3 Co-aggregation of amyloid-beta and transthyretin in sporadic inclusion body myositis

Takamura Nagasaka

Department of Neurology, University of Yamanashi

Pe-010-4 Less limb muscle involvement in myositis patients with anti-mitochondrial antibodies

Takeshi Uenaka

Division of Neurology, Kobe University Graduate School of Medicine

Pe-010-5 RNA-sequencing analysis of muscle biopsy samples from patients with CD8-MHC-1 complex

Chiseko Ikenaga

Department of Neurology, The University of Tokyo

Pe-010-6 Generation of novel active immunization model of sporadic inclusion body myositis

Nozomu Tawara

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

Pe-010-7 Musculoskeletal Disorders and Stress among Home-based Lady Migrant Care Workers in Taiwan

Yen-lin Chuang

Chang Gung Memorial Hospital, Kaohsiung, Taiwan

Metabolic disorders (Clinical genetics1)

Chair : Isao Hozumi

Medical Therapeutics and Molecular Therapeutics, Gifu Pharmaceutical University

Commentator : Kazushi Deguchi

Department of Neurology, Kagawa University Hospital

Pe-011-1 HSCT for adult-onset ALD: Background factors leading to early diagnosis of the brain involvement

Takashi Matsukawa

Department of Molecular Neurology, University of Tokyo, Graduate School of Medicine, Tokyo, Japan

Pe-011-2 Galactosialidosis: clinicopathological features of four autopsied patients

Hiroshi Shimizu

Dept. of Pathol., Brain Res. Inst., Niigata Univ.

Pe-011-3 Diagnostic utility of magnetic resonance angiography in Japanese patients with Fabry disease

Jun Sawada

Division of Cardiology, Nephrology, Pulmonology and Neurology, Department of Internal Medicine, Asahikawa Medical University

Pe-011-4 Risk of diabetes in stroke patients receiving statin treatment: a nationwide matched cohort study

Yi-chun Chou

China Medical University Hospital, Taiwan

Pe-011-5 withdrawn**Motor Neuron Disease (Pathogenesis)**

Chair : Mitsuya Morita

Jichi Medical University Hospital, Rehabilitation Center

Commentator : Keiko Imamura

Center for iPS Cell Research and Application (CiRA), Kyoto University

Pe-012-1 Effects of heat shock proteins on adenovirus-induced neuronal TDP-43 aggregate formation

Kazuhiko Watabe

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

Pe-012-2 DDX17 accumulates in endoplasmic reticulum of motor neurons in sporadic ALS

Mikiko Tada

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

Pe-012-3 Detection of early glial inflammation in pre-symptomatic spinal cord tissues of ALS

Shintaro Hayashi

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

Pe-012-4 Disruption of TDP-43 autoregulation lead to formation of cytoplasmic aggregates

Kazuhiro Maeta

Osaka University Graduate School of Medicine

Pe-012-5 Immunoreactivity of neuropeptides in the intermediolateral nucleus in amyotrophic lateral sclerosis

Akiyo Hineno

Intractable Disease Care Center, Shinshu University Hospital / Third Department of Medicine, Shinshu University School of Medicine

Pe-012-6 Modulation of Hypoxia Signaling Prevents Disease Progression of Amyotrophic Lateral Sclerosis

Tomonori Hoshino

Drug Screening Incubation Laboratory, Graduate School of Medicine, Kyoto University, Kyoto, Japan / Department of Neurology, Graduate School of Medicine, Kyoto University, Kyoto, Japan

Pe-012-7 Semantic deficits in amyotrophic lateral sclerosis evaluated with Jukujikun

Aya Ogura

Nagoya University Department of Neurology

Pe-013 English Poster Session

En

May 23 (Wed) 17:40 ~ 18:46

Poster Session (Royton Sapporo [Royton Hall] 3F)

Motor Neuron Disease (Basic research)

Chair : Makoto Urushitani

Department of Neurology, Shiga University of Medical Science

Commentator : Yasumasa Kokubo

Kii ALS/PDC Research Center, Mie University Graduate School of Regional Innovation Studies

Pe-013-1 Initial in vivo evaluation of biodegradable intrabody against pathogenic TDP-43 aggregates

Yoshitaka Tamaki

Department of Neurology, Shiga University of Medical Science

Pe-013-2 Chemogenetic manipulation of spinal motor neuron in ALS mouse model

Kazuhiro Ikumi

Department of Neurology, Nagoya University Graduate School of Medicine

Pe-013-3 Blood flow modulation therapy by prostacyclin agonist ameliorates ALS mice model

Mikito Shimizu

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

Pe-013-4 The therapeutics targeting the abnormal Src signaling pathway in spinal and bulbar muscular atrophy

Madoka Iida

Nagoya University Graduate school of medicine, Department of Neurology / Research Fellow of Japan Society for the Promotion of Science, RPD

Pe-014 English Poster Session

En

May 23 (Wed) 17:40 ~ 18:46

Poster Session (Royton Sapporo [Royton Hall] 3F)

Peripheral neuropathy (Basic research)

Chair : Kenichi Kaida

Division of Neurology, Dept. of Internal Medicine, National Defense Medical College

Commentator : Kensuke Shiga

Department of Medical Education

Pe-014-1 Ghrelin alleviates paclitaxel-induced neuropathy by enhancing mitochondrial anti-oxidant functions

Nobuyuki Ishii

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

Pe-014-2 Clinical courses and responses to immunotherapies in 38 patients with anti-MAG/SGPG neuropathy

Taro Matsui

Department of Neurology, Kindai University Faculty of Medicine / Department of Neurology, Anti-aging and Vascular Medicine, National Defense Medical College

Pe-014-3 Gene therapy for neuropathic pain through siRNA delivery with homing peptides to microglia

Tomoya Terashima

Department of Stem Cell Biology and Regenerative Medicine, Shiga University of Medical Science

Pe-014-4 Abnormal Mitochondrial Function and Dynamics in LBSL

Min-yu Lan

Neurology, Kaohsiung Chang Gung Memorial Hospital, Taiwan / Center for Parkinson's Disease, Department of Neurology, Kaohsiung, Taiwan

Epilepsy (Elderly1)

Chair : Kazutaka Jin

Department of Epileptology, Tohoku University Graduate School of Medicine

Commentator : Genjiro Hirose

Neurological Center, Asanogawa General Hospital

Pe-015-1 A study of MRI findings at the acute state of epileptic seizures

Kei-ichiro Takase

Neurological department, Iizuka Hospital

Pe-015-2 Incidence and Characterization of Post Gliotic Seizures Among the Elderly: A Cross- Sectional Study

Christian Oliver C. Co

Quirino Memorial Medical Center, Philippines

Pe-015-3 CLINICAL PROFILE OF OBSTETRIC PATIENTS PRESENTING WITH SEIZURE ADMITTED IN A TERTIARY HOSPITAL

Karisse Abril

Quirino Memorial Medical Center, Philippines

Pe-015-4 CLINICAL PROFILE OF POST-STROKE SEIZURES IN A LOCAL TERTIARY: A CROSS-SECTIONAL ANALYTICAL STUDY

Paul Emmanuel L. Yambao

Quirino Memorial Medical Center

Pe-016 English Poster Session**Miscellaneous (Basic research1)**

Chair : Yuji Nakatsuji

Department of Neurology, Toyama University Hospital

Commentator : Tatsuro Mutoh

Department of Neurology, Fujita Health University School of Medicine

Pe-016-1 Theoretical model of nerve conduction in unmyelinated nerves and saltatory conduction

Tetsuya Akaishi

Department of Neurology, Tohoku University / Department of Neurology, Yonezawa National Hospital

Pe-016-2 Tau isoforms Imbalance impairs adult hippocampal neurogenesis

Nobuyuki Iwade

Department of Neurology, Nagoya Univ. Grad. Sch. of Med., Nagoya, Japan

Pe-016-3 Effects of clioquinol on autophagy-lysosome system in cultured astrocytes

Yasuaki Mizutani

Department of Neurology, Fujita Health University School of Medicine

Pe-016-4 Inhibition of Semaphorin 3A enhances axonal outgrowth and improves functional recovery after stroke

Kenichiro Hira

Department of Neurology, Juntendo University School of Medicine

Pe-016-5 Case report of Hirayama disease in the Southern of Thailand

Dussadee Seanglaw

Surat Thani hospital, Thailand

Pe-016-6 Role of AKT1 3UTR variants in schizophrenia and neurocognition

Tze Jen Chow

Universiti Tunku Abdul Rahman, Malaysia

Pe-016-7 Progressive Visual Loss in 50-Year-Old Woman with Optic Nerve Sheath Meningioma: A Case Report

Mark M. Ando

Perpetual Succour Hospital, Philippines

Pe-017 English Poster Session

En

May 23 (Wed) 17:40 ~ 18:46

Poster Session (Royton Sapporo [Royton Hall] 3F)

Miscellaneous (Basic research2)

Chair : Jun Kawamata

Department of Neurology, Sapporo Medical University

Commentator : Tadashi Ichikawa

Saitama Prefectural Rehabilitation Center

Pe-017-1 The relationship between promoters and capsid proteins in induction of adeno-associatedvirus vector

Yoshihide Sehara

Division of Genetic Therapeutics, Center for Molecular Medicine, Jichi Medical University

Pe-017-2 Proteome alternations in knock-in mice expressing nonphosphorylated CRMP2

Haruko Nakamura

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

Pe-017-3 Epigenetic regulators in the survival and differentiation of oligodendrocyte precursor cells

Naohiro Egawa

Department of Neurology, Graduate School of Medicine, Kyoto University / Neuroprotection Research Laboratory, Departments of Radiology and Neurology, Massachusetts General Hospital and Harvard Medical School, Charlestown, Massachusetts, USA

Pe-017-4 Knockdown of Rubicon extends lifespan and attenuates polyglutamine toxicity in *Drosophila*

Mari Suzuki

Department of Sensory and Motor Systems, Tokyo Metropolitan Institute of Medical Science

Pe-017-5 Development of Neurofilament-L high sensitivity assay by proximity-dependent DNA ligation method

Sou Kasahara

Department of Neurology, Brain Research Institute, Niigata University

Pe-017-6 Doppler ultrasonography correlation of reactivity of cerebral vessels in patients with PTH

Yuliia Yakubenko

Kharkiv Medical Academy of Postgraduate Education, Ukraine

Pe-017-7 Prevalence of primary headache disorders in Mongolia

Byambasuren Tsenddorj

State Third Central Hospital, Mongolia