

◆会長講演

日時：3月11日（土）14：40～15：10
 座長：鈴木 秀和（東海大学医学部内科学系消化器内科学）
 PL 「Cerebral Microcirculation from Physiology to Pathophysiology」
 演者：伊藤 義彰（大阪公立大学大学院医学研究科脳神経内科学）

◆特別講演

日時：3月10日（金）16：00～17：00
 座長：伊藤 義彰（大阪公立大学大学院医学研究科脳神経内科学）
 SP 「Development and application of imaging tracers for neuropsychiatric disorders」
 演者：樋口 真人（量子科学技術研究開発機構 量子生命・医学部門
 量子医科学研究所 脳機能イメージング研究部）

◆シンポジウム

<シンポジウム 1>

日時：3月10日（金）10：30～12：30
 テーマ：虚血性脳・心疾患
 座長：高橋 慎一（埼玉医科大学国際医療センター 脳神経内科・脳卒中内科）
 安部 貴人（東海大学医学部内科学系脳神経内科）
 S1-1 「Pathophysiology and Management of Stroke. From an Internist's Perspective」
 伊澤 良兼（慶應義塾大学医学部神経内科）
 S1-2 「Recent advances in treating neonatal hypoxic-ischemic encephalopathy」
 濱崎 考史（大阪公立大学大学院医学研究科発達小児医学）
 S1-3 「Microcirculation in Neurosurgery for Stroke」
 堀口 崇（慶應義塾大学看護医療学部/慶應義塾大学医学部脳神経外科）
 S1-4 「New insight into Cardiovascular disease：The role of epicardial adipose tissue」
 福田 大受（大阪公立大学大学院医学研究科 循環器内科学）

<シンポジウム 2>

日時：3月10日（金）13：50～15：50
 テーマ：異常蛋白蓄積と脳微小循環
 座長：中原 仁（慶應義塾大学医学部神経内科）
 正本 和人（国立大学法人 電気通信大学 脳・医工学研究センター）
 S2-1 「Pathophysiology of Alzheimer's disease
 —Mechanisms of amyloid- β accumulation and propagation」
 武田 景敏（大阪公立大学大学院医学研究科脳神経内科学）
 S2-2 「Multiscale *in-vivo* imaging of tau deposits in the mouse brain
 using two-photon microscopy and PET」
 田桑 弘之（量子科学技術研究開発機構 量子生命・医学部門
 量子生命科学研究所 量子神経マッピング制御グループ）
 S2-3 「Relationship between α -synuclein accumulation and glymphatic system」
 関 守信（慶應義塾大学医学部神経内科）
 S2-4 「Pathobiochemical features and transmission potential of TDP-43 proteinopathy」
 辻 浩史（筑波大学 神経内科）

<シンポジウム 3>

日時：3月11日（土）10：20～12：20

テーマ：消化器疾患における微小循環研究の最前線

座長：渡邊 俊雄（大阪公立大学大学院医学研究科 先端予防医療学）

高木 智久（京都府立医科大学消化器内科）

S3-1 「Role of Lymphocyte migration in inflammatory intestinal Disease」

穂苺 量太（防衛医科大学校医学教育部医学科内科学（消化器））

S3-2 「Activation of inflammasome and microcirculatory disturbance in gastrointestinal inflammation」

大谷 恒史（大阪公立大学大学院医学研究科消化器内科学）

S3-3 「The expression of mucosal adhesion molecules is involved in the clinical course and pathogenesis of ulcerative colitis」

内山 和彦（京都府立医科大学 消化器内科）

S3-4 「Endoscopic hemostasis and transarterial embolization in patients with GI bleeding : microvascular aspects」

佐野 正弥（東海大学医学部医学科 内科学系消化器内科学）

<シンポジウム 4>

日時：3月11日（土）15：20～17：20

テーマ：眼科疾患と微小循環障害

座長：石田 晋（北海道大学大学院医学研究院 眼科学教室）

本田 茂（大阪公立大学大学院医学研究科視覚病態学）

S4-1 「New Approach to the Treatment of Diabetic Retinopathy :

Role of Neurovascular Coupling and Therapeutic Perspectives」

長岡 泰司（日本大学医学部視覚科学系眼科学分野）

S4-2 「Choroidal circulation in venous overload choroidopathy」

齋藤 理幸（北海道大学 大学院医学研究院 眼科学教室）

S4-3 「Association between diabetic retinopathy and ocular blood flow」

橋本りゅう也（東邦大学眼科学講座（佐倉））

S4-4 「Retinal microcirculation disorder in diabetic retinopathy」

小椋俊太郎（名古屋市立大学大学院医学研究科視覚科学）

S4-5 「The outer blood-retinal barrier in central serous chorioretinopathy」

本田 茂（大阪公立大学大学院医学研究科視覚病態学）

◆ランチョンセミナー

<ランチョンセミナー 1>

日時：3月10日（金）12：40～13：40

座長：伊藤 義彰（大阪公立大学大学院医学研究科脳神経内科学）

LS1 「A Paradigm Shift in Migraine Treatment : Erenumab Launch and Reduction of Burden」

演者：竹島多賀夫（富永病院/富永クリニック）

共催：アムジェン株式会社

<ランチョンセミナー 2>

日時：3月11日（土）12：30～13：30

座長：堀口 崇（慶應義塾大学看護医療学部/慶應義塾大学医学部脳神経外科）

LS2 「Antithrombotic therapy in patients with ischemic stroke」

演者：山上 宏（国立病院機構大阪医療センター 脳卒中内科）

共催：第一三共株式会社

◆イブニングセミナー

日時：3月10日（金）17：10～18：10

座長：伊藤 義彰（大阪公立大学大学院医学研究科脳神経内科学）

ES 「Selection and role of antiseizure medication in post-stroke epilepsy」

演者：一ノ瀬 努（大阪公立大学大学院医学研究科脳神経外科学）

共催：エーザイ株式会社

PROGRAM

Friday, March 10, 2023

Opening Remarks

8:50-9:00

Applicants' Presentation for Young Investigators Award

9:00-10:20

Chair : Yoshikazu Tsuzuki
Takashi Osada

- Y-01** Microcirculatory Disturbance after Recanalization with Endovascular Thrombectomy
Kosuke Okamoto, Hiroka Sakaguchi, Marie Tanaka, Itsuki Hasegawa, Yoshiaki Itoh
Department of Neurology, Osaka Metropolitan University
- Y-02** Establishment of pericytes-specific optogenetic animal tool
Chisato Iba¹⁾, Miyuki Unekawa²⁾, Kenji F. Tanaka³⁾
¹⁾Keio University School of Medicine, Tokyo, Japan
²⁾Department of Neurology, Keio University School of Medicine, Tokyo, Japan
³⁾Department of Brain Science, Keio University School of Medicine, Tokyo, Japan
- Y-03** Subarachnoid hemorrhage induces neuroinflammation and neuronal cell death throughout the entire brain
Hiroki Yamada
Department of Neurosurgery, Keio University School of Medicine
- Y-04** Establishment of deep learning algorithm for retinal vascular area measurement : an alternative biomarker of brachial-ankle pulse wave velocity
Kanae Fukutsu, Michiyuki Saito, Susumu Ishida
Department of Ophthalmology, Hokkaido University
- Y-05** Evaluation of oxidative stress by fluorescence immunostaining of novel therapeutic agents in type 2 diabetic mice
Junya Hanaguri¹⁾, Ruri Sugiyama¹⁾, Akifumi Kushiyama²⁾, Taiji Nagaoka¹⁾
¹⁾Department of Visual Sciences, Nihon University School of Medicine
²⁾Department of Pharmacotherapy, Meiji Pharmaceutical University
- Y-06** Modulation of lymphocytes migration to intestinal microvessels by succinate in mice
Hiroyuki Tahara, Masaaki Higashiyama, Ryouta Yoshidome, Kana Ayaki, Hiroyuki Nishimura, Akira Tomioka, Suguru Ito, Rina Tanemoto, Yoshikiyo Okada, Chie Kurihara, Shunsuke Komoto, Kengo Tomita, Ryota Hokari
Department of Internal Medicine, National Defence Medical College
- Y-07** Irregular and tortuous vasculature in colonic mucosa of active ulcerative colitis observed by endocytoscopy
Kazuya Miyaguchi¹⁾, Hisashi Matsumoto²⁾, Hideki Ohgo¹⁾, Hidetomo Nakamoto²⁾, Hiroyuki Imaeda¹⁾, Yoshikazu Tsuzuki¹⁾
¹⁾Department of Gastroenterology, Saitama Medical University
²⁾Department of General Internal Medicine, Saitama Medical University
- Y-08** Pirfenidone prevents experimental esophageal stricture after ulcer healing by inhibiting NLRP3 inflammasome activation
Shinji Hirano¹⁾, Akira Higashimori¹⁾, Yasuaki Nagami¹⁾, Yuji Nadatani²⁾, Koji Otani¹⁾, Toshio Watanabe²⁾, Yasuhiro Fujiwara¹⁾
¹⁾Department of Gastroenterology, Osaka Metropolitan University Graduate School of Medicine
²⁾Department of Premier Preventive Medicine, Osaka Metropolitan University Graduate School of Medicine

Symposium 1

Ischemic Brain/Heart Disease

10:30-12:30

Chair : Shinichi Takahashi
Takato Abe

S1-1 Pathophysiology and Management of Stroke. From an Internist's Perspective

Yoshikane Izawa

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

S1-2 Recent advances in treating neonatal hypoxic-ischemic encephalopathy

Takashi Hamazaki¹⁾, Emi Tanaka¹⁾, Satoshi Ohnishi¹⁾, Makoto Nabetani²⁾, Haruo Shintaku¹⁾

¹⁾Department of Pediatrics, Osaka Metropolitan University Graduate School of Medicine, Osaka, Japan

²⁾Department of Pediatrics, Yodogawa Christian Hospital, Osaka, Japan

S1-3 Microcirculation in Neurosurgery for Stroke

Takashi Horiguchi^{1,2)}

¹⁾Keio University Faculty of Nursing And Medical Care

²⁾Keio University School of Medicine, Department of Neurosurgery

S1-4 New insight into Cardiovascular disease : The role of epicardial adipose tissue

Daiju Fukuda

Department of Cardiovascular Medicine, Osaka Metropolitan University Graduate School of Medicine

Luncheon Seminar 1

12:40-13:40

Chair : Yoshiaki Itoh

LS1 A Paradigm Shift in Migraine Treatment : Erenumab Launch and Reduction of Burden

Takao Takeshima

Tominaga Hospital/Tominaga Clinic

Sponsored by Amgen K.K.

Symposium 2

Microcirculatory Disturbance and Pathological Protein Accumulation in the Brain

13:50-15:50

Chair : Jin Nakahara

Kazuto Masamoto

S2-1 Pathophysiology of Alzheimer's disease—Mechanisms of amyloid- β accumulation and propagation

Akitoshi Takeda, Itsuki Hasegawa, Keisuke Togawa, Marie Tanaka, Hiroto Namba, Yoko Hirayoshi, Shinobu Minatani, Toshikazu Mino, Yoshiaki Itoh

Department of Neurology, Osaka Metropolitan University of Medicine

S2-2 Multiscale *in-vivo* imaging of tau deposits in the mouse brain using two-photon microscopy and PET

Hiroyuki Takuwa

Quantum Neuromapping and Neuromodulation Group, Institute for Quantum Life Science, National Institutes for Quantum Science and Technology (QST)

S2-3 Relationship between α -synuclein accumulation and glymphatic system

Morinobu Seki

Department of Neurology, Keio University School of Medicine

S2-4 Pathobiochemical features and transmission potential of TDP-43 proteinopathy

Hiroshi Tsuji¹⁾, Tetsuaki Arai²⁾, Masato Hasegawa³⁾

¹⁾Department of Neurology, Division of Clinical Medicine, Faculty of Medicine, University of Tsukuba

²⁾Department of Psychiatry, Division of Clinical Medicine, Faculty of Medicine, University of Tsukuba

³⁾Dementia Research Project, Tokyo Metropolitan Institute of Medical Science

Special Lecture

16:00-17:00

Chair : Yoshiaki Itoh

SP Development and application of imaging tracers for neuropsychiatric disorders

Makoto Higuchi

Department of Functional Brain Imaging, National Institutes for Quantum Science and Technology

Evening Seminar

17:10-18:10

Chair : Yoshiaki Itoh

ES Selection and role of antiseizure medication in post-stroke epilepsy

Tsutomu Ichinose

Department of Neurosurgery, Osaka Metropolitan University Graduate School of Medicine

Sponsored by Eisai Co., Ltd.

Awards ceremony and Reception

18:20-19:20

Saturday, March 11, 2023

Free Paper 1

Dentistry, Neurology, and Gastroenterology

9:00-10:10

Chair : Toshihiro Nishizawa
Miyuki Unekawa

- F-01** Platelet-rich fibrin application promotes hard and soft tissue regeneration in periodontal tissue
Masahiro To¹⁾, Satoko Wada-Takahashi²⁾, Shun-suke Takahashi³⁾, Masato Matsuo¹⁾
¹⁾Department of Clinical Oral Anatomy, Kanagawa Dental University
²⁾Department of Oral Physiology, Kanagawa Dental University
³⁾Department of Dental Pharmacology, Kanagawa Dental University
- F-02** Dextran Dynamics revealed by Two Photon Microscopy
Marie Tanaka, Yoko Hirayoshi, Shinobu Minatani, Yoshiaki Itoh
Department of Neurology, Osaka Metropolitan University
- F-03** PCSK9 inhibitor can improve outcome after brain ischemia
Masanari Shirafuji, Atsushi Mizuma, Takato Abe, Eiichiro Nagata
Department of Neurology, Tokai University School of Medicine
- F-04** Enhanced red blood cell aggregation and capillary flow stall under dehydration in the rat brain microcirculation
Maho Kotani¹⁾, Masaaki Oshita¹⁾, Kazuto Masamoto²⁾
¹⁾University of Electro-Communications
²⁾Center for Neuroscience and Biomedical Engineering, University of Electro-Communications
- F-05** Hemodynamics and infarct formation at the striatum and cerebral cortex by transient occlusion of middle cerebral artery in mice
Miyuki Unekawa, Tsubasa Takizawa, Yutaka Tomita, Jin Nakahara, Yoshikane Izawa
Department of Neurology, Keio University School of Medicine
- F-06** Increased Level of Complement 3 is Associated with Cerebral Amyloid Angiopathy
Satoshi Saito
Department of Neurology, National Cerebral and Cardiovascular Center
- F-07** Role and potential mechanism of action of heme oxygenase-1 in intestinal ischemia-reperfusion injury
Kazuhiro Katada¹⁾, Tomohisa Takagi¹⁾, Kazuhiro Kamada¹⁾, Kazuhiko Uchiyama¹⁾, Yuji Naito²⁾
¹⁾Molecular Gastroenterology and Hepatology, Graduate School of Medical Science, Kyoto Prefectural University of Medicine
²⁾Department of Human Immunology and Nutrition Science, Graduate School of Medical Science, Kyoto Prefectural University of Medicine

Symposium 3

Recent Advance in Microcirculation Study of Gastroenterology

10:20-12:20

Chair : Toshio Watanabe
Tomohisa Takagi

- S3-1** Role of Lymphocyte migration in inflammatory intestinal Disease
Ryota Hokari, Masaaki Higashiyama, Kazuyuki Narimatsu
National Defense Medical College, Saitama, Japan

S3-2 Activation of inflammasome and microcirculatory disturbance in gastrointestinal inflammation

Koji Otani¹⁾, Akira Higashimori¹⁾, Yuji Nadatani²⁾, Toshio Watanabe²⁾

¹⁾Department of Gastroenterology, Osaka Metropolitan University Graduate School of Medicine

²⁾Department of Premier Preventive Medicine, Osaka Metropolitan University Graduate School of Medicine

S3-3 The expression of mucosal adhesion molecules is involved in the clinical course and pathogenesis of ulcerative colitis

Kazuhiko Uchiyama¹⁾, Tomohisa Takagi^{1,2)}, Kohei Asaeda¹⁾, Takeshi Sugaya³⁾, Yuji Naito⁴⁾

¹⁾Molecular Gastroenterology and Hepatology, Kyoto Prefectural University of Medicine

²⁾Department for Medical Innovation and Translational Medical Science, Graduate School of Medical Science, Kyoto Prefectural University of Medicine

³⁾Medical Regulatory Science, Kyoto Prefectural University of Medicine

⁴⁾Department of Human Immunology and Nutrition Science, Kyoto Prefectural University of Medicine

S3-4 Endoscopic hemostasis and transarterial embolization in patients with GI bleeding : microvascular aspects

Masaya Sano, Takashi Ueda, Hidekazu Suzuki

Division of Gastroenterology and Hepatology, Department of Internal Medicine, Tokai University School of Medicine

Luncheon Seminar 2

12:30-13:30

Chair : Takashi Horiguchi

LS2 Antithrombotic therapy in patients with ischemic stroke

Hiroshi Yamagami

Department of Stroke Neurology, NHO Osaka National Hospital

Sponsored by DAIICHI SANKYO COMPANY. LIMITED

Council Meeting and General Assembly

13:40-14:40

Presidential Lecture

14:40-15:10

Chair : Hidekazu Suzuki

PL Cerebral Microcirculation from Physiology to Pathophysiology

Yoshiaki Itoh

Department of Neurology, Osaka Metropolitan University Graduate School of Medicine

Symposium 4

Microcirculatory Disturbance in Ophthalmic Diseases

15:20-17:20

Chair : Susumu Ishida

Shigeru Honda

S4-1 New Approach to the Treatment of Diabetic Retinopathy : Role of Neurovascular Coupling and Therapeutic Perspectives

Taiji Nagaoka

Division of Ophthalmology, Department of Visual Science, Nihon University School of Medicine

S4-2 Choroidal circulation in venous overload choroidopathy

Michiyuki Saito

Department of Ophthalmology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University

S4-3 Association between diabetic retinopathy and ocular blood flow

Ryuya Hashimoto

Department of Ophthalmology, Toho University Sakura Medical Center

S4-4 Retinal microcirculation disorder in diabetic retinopathy

Shuntaro Ogura

Department of Ophthalmology and Visual Sciences, Nagoya City University Graduate School of Medical Sciences

S4-5 The outer blood-retinal barrier in central serous chorioretinopathy

Shigeru Honda

Osaka Metropolitan University Graduate School of Medicine

Free Paper 2

Ophthalmology and Neurology

17:20-18:20

Chair : Satoshi Terao

Ichiro Deguchi

F-08 Comparison of dye-based fundus angiography and optical coherence tomography angiography in diabetic macular edema

Miho Nozaki¹⁾, Yuichiro Ogura²⁾

¹⁾Department of Ophthalmology, Nagoya City University East Medical Center

²⁾Department of Ophthalmology, Nagoya City University

F-09 Long-term effect of hydrogen-rich water intake on retinal blood flow regulation in db/db mice

Ruri Sugiyama¹⁾, Junya Hanaguri¹⁾, Akifumi Kushiyama²⁾, Taiji Nagaoka¹⁾

¹⁾Department of Visual Sciences, Nihon University School of Medicine

²⁾Department of Pharmacotherapy, Meiji Pharmaceutical University

F-10 Factors affecting functional prognosis after acute reperfusion therapy with successful recanalization

Ichiro Deguchi, Takashi Osada, Shinichi Takahashi

Department of Neurology and Cerebrovascular Medicine, Saitama Medical University International Medical Center

F-11 Clinical Features and Microcirculatory Dynamics of Cancer-Related Thrombosis

Itsuki Hasegawa, Hiroka Sakaguchi, Marie Tanaka, Kosuke Okamoto, Toshikazu Mino, Yoshiaki Itoh

Department of Neurology, Osaka Metropolitan University Graduate School of Medicine

F-12 Brain infarction and vasculitis in neuropsychiatric systemic lupus erythematosus : a clinico-pathological case

Yuri Katayama¹⁾, Yoshiaki Itoh²⁾

¹⁾Department of Neurology, Moriguchi-Ikuno Memorial Hospital

²⁾Department of Neurology, Osaka Metropolitan University Graduate School of Medicine

F-13 Microcirculatory Disturbance in a case of Eosinophilic Granulomatosis with Polyangiitis Causes Multiple Cerebral Infarction in the Bilateral Border Zone Areas

Hiroka Sakaguchi, Kosuke Okamoto, Marie Tanaka, Itsuki Hasegawa, Yoshiaki Itoh

Department of Neurology, Osaka Metropolitan University

Closing Remarks

18:20-18:30