

PROGRAM

Friday, June 5, 2026

Opening Remarks

8:50-9:00

President: Susumu Ishida
Hokkaido University

Applicants' Presentation for Young Investigators Award

9:00-10:20

Chair: Yuji Naito
Ryota Hokari
Kanae Fukutsu

- Y-01** A Revised Perspective on Watershed of Lymphosomes in Superficial Collecting Lymphatic Vessel Anatomy
Hayahito Sakai^{1,2)}, Toko Umamoto²⁾, Maya Kanasaki²⁾, Reiko Tsukuura²⁾, Takumi Yamamoto²⁾
¹⁾Department of Plastic and Reconstructive Surgery, Hakuaiikai Social Medical Corporation, Sagara Hospital
²⁾Department of Plastic and Reconstructive Surgery, National Center for Global Health and Medicine
- Y-02** Study on the Effects of Succinic Acid on Intestinal Microcirculation in Mice
Hiroyuki Tahara, Masaaki Higashiyama, Yuta Yoshidome, Kana Ayaki, Hirotaka Furuhashi, Yoshikiyo Okada, Chie Kurihara, Shunsuke Komoto, Kengo Tomita, Ryota Hokari
Department of Internal Medicine, National Defence Medical College
- Y-03** Single-cell focal heating supports "thermovascular coupling" in cerebral microcirculation
Masaki Yoshioka^{1,2)}, Mariko Handa^{1,3)}, Ayaka Takada^{1,3)}, Makoto Tozawa⁴⁾, Yasuyuki Ueda⁵⁾, Tsukasa Torimoto⁴⁾, Hiroshi Yukawa^{5,6,7)}, Hiroyuki Takuwa^{1,3)}
¹⁾Quantum Neuromapping and Neuromodulation Team, Institute for Quantum Life Science, National Institutes for Quantum Science and Technology
²⁾Graduate School of Medicine, Chiba University
³⁾Graduate School of Science and Engineering, Chiba University
⁴⁾Graduate School of Engineering, Nagoya University
⁵⁾Quantum Regenerative and Biomedical Engineering Team, Institute for Quantum Life Science, National Institutes for Quantum Science and Technology
⁶⁾Institutes of Innovation for Future Society, Nagoya University
⁷⁾Graduate School of Medicine, Tohoku University
- Y-04** Neural Activation Induced-Vasodilatation may Function as a Driving Force of Fluid Flow in the Perivascular Space of the Brain
Naotaka Miyazawa, Yoko Hirayoshi, Shinobu Minatani, Kenta Aohara, Kosuke Okamoto, Itsuki Hasegawa, Akitoshi Takeda, Hiroshi Tsuji, Yoshiaki Itoh
Department of Neurology, Osaka Metropolitan University Graduate School of Medicine
- Y-05** Spatiotemporal Characterization of Microvascular Remodeling After Focal Cerebral Ischemia
Miyabi Yamaguchi¹⁾, Shuko Fujiki¹⁾, Yutaka Tomita^{2,3)}, Yoshikane Izawa²⁾, Jin Nakahara²⁾, Kazuto Masamoto^{1,4)}
¹⁾Graduate School of Informatics and Engineering, University of Electro-Communications, Tokyo, Japan
²⁾Department of Neurology, Keio University School of Medicine, Tokyo, Japan
³⁾Tomita Hospital, Aichi, Japan
⁴⁾Center for Neuroscience and Biomedical Engineering, The University of Electro-Communications, Tokyo, Japan
- Y-06** Effects of IGF-1 on Post-Ischemic Cerebral Microvascular Network Remodeling and Cerebral Hemodynamics
Shuko Fujiki¹⁾, Miyabi Yamaguchi¹⁾, Yutaka Tomita^{2,3)}, Yoshikane Izawa²⁾, Jin Nakahara²⁾, Kazuto Masamoto⁴⁾
¹⁾Graduate School of Informatics and Engineering, University of Electro-Communications, Tokyo, Japan
²⁾Department of Neurology, Keio University School of Medicine, Tokyo, Japan
³⁾Tomita Hospital, Aichi, Japan
⁴⁾Center for Neuroscience and Biomedical Engineering, The University of Electro-Communications, Tokyo, Japan

Y-07 Diurnal Variation of Flicker-Induced Retinal Neurovascular Coupling in Healthy Subjects
Jinto Omori, Tomoko Mase, Shun Konno, Taiji Nagaoka
Asahikawa Medical University

Y-08 Progressive Retinal Hyperperfusion Independently Predicts the Onset of Diabetic Retinopathy in Type 1 Diabetes
Ami Konno, Shun Konno, Mitsuru Otsubo, Takafumi Yoshioka, Harumasa Yokota, Taiji Nagaoka
Asahikawa Medical University

Symposium 1

Crosstalk Between Cardiovascular Diseases and Systemic Organ Microcirculation

10:30-12:00

Organizer: Toshihisa Anzai
Takanori Yasu

SY1-1 Keynote Lecture
The Relationship Between Cardiovascular Diseases and Systemic Microcirculation
Takanori Yasu
Dokkyo Medical University Nikko Medical Center

SY1-2 Clinical Evaluation of Coronary Microvascular Dysfunction
Yasutsugu Shiono
Wakayama Medical University

SY1-3 Microvascular Dysfunction of the Gingiva in Cardiovascular Disease
Satoko Wada-Takahashi¹⁾, Shun-suke Takahashi²⁾, Masahiro To³⁾, Masato Matsuo⁴⁾
¹⁾Department of Oral Physiology, Kanagawa Dental University
²⁾Department of Pharmacology, Kanagawa Dental University
³⁾Department of Nursing, School of Health Sciences, Tokyo University of Technology
⁴⁾Department of Oral and Maxillofacial Implantology, Kanagawa Dental University

SY1-4 Retinal Microvascular Imaging and Coronary Artery Disease: A Window Into Systemic Microcirculation
Atsushi Tada¹⁾, Takeshi Hamaya¹⁾, Toshiyuki Nagai¹⁾, Kanae Fukutsu²⁾, Michiyuki Saito²⁾, Kousuke Noda²⁾, Susumu Ishida²⁾, Toshihisa Anzai¹⁾
¹⁾Department of Cardiovascular Medicine, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Japan
²⁾Department of Ophthalmology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Japan

Luncheon Seminar 1

The Potential Impact of Dual pathway on Retinal Vasculature

12:15-13:15

Chair: Susumu Ishida

LS1-1 Advances in Vascular Regeneration and Regulatory Approaches for Vascular Diseases
Nobuyuki Takakura
Department of Signal Transduction, Research Institute for Microbial Diseases, The University of Osaka

LS1-2 Vascular Stabilization to Support QOL and QOV: Clinical Significance of Vabysmo's Dual Inhibition in Diabetic Macular Edema (DME)
Taiji Nagaoka
Department of Ophthalmology Asahikawa Medical University

Sponsored by Chugai Pharmaceutical Co., Ltd.

Symposium 2

Basic and Clinical Aspects of Ocular Microcirculation

13:25-15:05

Organizer: Taiji Nagaoka
Yoko Ozawa

- SY2-1** Neuronal damage alters neurovascular regulation of retinal vascular tone
Asami Mori
Laboratory of Medical Pharmacology, Faculty of Pharma-Sciences, Teikyo University
- SY2-2** Visualizing Microcirculation: How OCT Technology is Revolutionizing Ocular Blood Flow Measurement
Masahiro Akiba
Topcon Corporation
- SY2-3** Beyond Diabetic Retinopathy: Diabetic Retinal Disease Revealed by Optical Coherence Tomography Angiography
Miho Nozaki
Nagoya City University East Medical Center
- SY2-4** Multimodal imaging in intraocular tumors
Satoru Kase
Nara Medical University
- SY2-5** Elucidation of Choroidal Circulation Using Imaging Techniques
Hideo Akiyama
Gunma University Graduate School of Medicine

Special Lecture

15:15-16:15

Chair: Susumu Ishida

- SL** Revisiting the anatomy and heterogeneity of skeletal vasculature
Yoshiaki Kubota
Keio University School of Medicine

Free Paper 1

16:25-17:05

Chair: Kiyoshi Suzuma
Shinichi Takahashi

- F-01** A case of Stewart-Treves syndrome; immunohistochemical nature of the vascular neoplasm
Eikichi Okada
Toyama City Medical Association Health Control Center
- F-02** Qing-Fei-Pai-Du-Tang ameliorates lipopolysaccharide rat acute lung injury through attenuating pulmonary microcirculatory disturbances
Jing-Yan Han^{1,2)}
¹⁾Department of Integration of Chinese and Western Medicine, School of Basic Medical Sciences, Peking University, Beijing, China
²⁾Tasly Microcirculation Research Center, Peking University Health Science Center, Beijing, China
- F-03** Sleep-Dependent Changes in the Brain Microenvironment
Chika Miyoshi¹⁾, Hiromasa Funato^{1,2)}, Masashi Yanagisawa^{1,3,4)}
¹⁾International Institute for Integrative Sleep Medicine (WPI-IIS), Tsukuba Institute for Advanced Research (TIAR), University of Tsukuba
²⁾Department of Anatomy, Graduate School of Medicine, Toho University
³⁾Department of Molecular Genetics, University of Texas Southwestern Medical Center
⁴⁾Life Science Center for Survival Dynamics, Tsukuba Advanced Research Alliance, University of Tsukuba
- F-04** TGF- β receptor overexpression in mural cells induces retinal arterial tortuosity
Kanan Nagasawa¹⁾, Chisato Iba¹⁾, Yasuhiro Moriwaki²⁾, Kenji Tanaka³⁾
¹⁾Keio University School of Medicine, Tokyo, Japan
²⁾Department of Pharmacy, Keio University, Tokyo, Japan
³⁾Division of Brain Sciences, Institute for Advanced Medical Research, Keio University School of Medicine, Tokyo, Japan

Saturday, June 6, 2026

Free Paper 2

9:00-9:40

Chair: Shunsuke Takahashi
Juntaro Matsuzaki

- F-05** The number of capillaries in skeletal muscle by numerical simulation
Tatsuhisa Takahashi¹⁾, Tadasai Saitoh²⁾, Akihito Yoshimura³⁾, Toshiyuki Sugimoto⁴⁾, Shinichi Watanabe⁴⁾, Hiroataka Yanagida⁴⁾
¹⁾Asahikawa Medical University
²⁾Yamagata University
³⁾Kanagawa Institute of Technology
⁴⁾Nihon University
- F-06** Correlation between Blood Components and Capillary Flow Velocity Distribution: Toward Monitoring of Venous Thromboembolism using Nailfold Video Capillaroscopy in Hospitalized Patients
Hiroki Nagano¹⁾, Hiroki Suzuki³⁾, Daichi Oneda¹⁾, Keiji Kawagoe^{4,5)}, Ichiro Miura^{5,6,7)}, Kazuto Masamoto²⁾
¹⁾Graduate School of Informatics and Engineering, University of Electro-Communications
²⁾Center for Neuroscience and Biomedical Engineering, University of Electro-Communications
³⁾School of Engineering, Institute of Science Tokyo
⁴⁾Toku Corporation
⁵⁾NPO Mousaiekkkan Kenkyukai (Japanese Capillary Research Conference)
⁶⁾Department of Clinical laboratory, Social Welfare Corporation Hokkaido Institutional Society Obihiro Hospital
⁷⁾Department of Human Pathology, School of Medicine, Juntendo University
- F-07** Single-Beat Capillary Dynamic Analysis Using PCA-ICA Decomposition
Daichi Oneda¹⁾, Hiroki Suzuki²⁾, Kazuto Masamoto³⁾
¹⁾Graduate School of Informatics and Engineering, University of Electro-Communications
²⁾School of Engineering, Institute of Science Tokyo
³⁾Center for Neuroscience and Biomedical Engineering, University of Electro-Communications
- F-08** Comparison of spatial capillary stalling patterns between young and aged RBCs in relation to dehydration
Hiroki Suzuki^{1,2)}, Ako Miura³⁾, Rintaro Yamada³⁾, Kazuto Masamoto²⁾
¹⁾School of Engineering, Institute of Science Tokyo
²⁾Center for Neuroscience and Biomedical Engineering, University of Electro-Communications
³⁾Graduate School of Informatics and Engineering, University of Electro-Communications

Symposium 3**Basic and Clinical Aspects of Gastrointestinal Microcirculation****9:50-12:20**Organizer: Hidekazu Suzuki
Toshio Watanabe

- SY3-1** Keynote Lecture
Characteristics of the Gastrointestinal Microcirculatory System: Functional Differentiation and its Implications for Disease Susceptibility
Masahiko Nakamura¹⁾, Hidekazu Suzuki²⁾
¹⁾Tokai University School of Medicine
²⁾Department of Gastroenterology and Hepatology, Tokai University School of Medicine
- SY3-2** Endoscopic Diagnosis and Treatment Based on the Microvascular Pattern of the Gastrointestinal Mucosa
Masaya Sano, Hidekazu Suzuki
Division of Gastroenterology and Hepatology, Department of Internal Medicine
- SY3-3** Clinical Characteristics of Eosinophilic Esophagitis Detected in a Health Screening Setting
Yuji Nadatani^{1,2)}, Koji Otani²⁾, Yasuhiro Fujiwara²⁾, Toshio Watanabe¹⁾
¹⁾Department of Premier Preventive Medicine, Osaka Metropolitan University
²⁾Department of gastroenterology, Osaka Metropolitan University
- SY3-4** Investigation of the Duodenal Microenvironment in Patients with Functional Dyspepsia
Hideki Mori, Hiroko Ando, Tatsuhiro Masaoka, Juntaro Matsuzaki, Takanori Kanai
Division of Gastroenterology and Hepatology, Department of Internal Medicine, Keio University School of Medicine
- SY3-5** Does pre-treatment mucosal eosinophil infiltration affect the therapeutic efficacy of vedolizumab in patients with ulcerative colitis?
Shuzo Monden¹⁾, Osamu Handa²⁾
¹⁾Kawasaki Medical School Hospital
²⁾Tokai University Hospital
- SY3-6** Quantitative analysis of vascular density in colonic mucosa in patients with ulcerative colitis observed by Endocytoscope
Hisashi Matsumoto, Kazuya Miyaguchi, Hiroyuki Imaeda, Yoshikazu Tsuzuki
Department of Gastroenterology, Saitama Medical University, Saitama, Japan
- SY3-7** Investigation of Small Intestinal Microcirculatory Pathophysiology Using an Intestinal Ischemia-Reperfusion Model
Kazuhiro Katada¹⁾, Tomohisa Takagi²⁾, Tatsushi Omatsu¹⁾, Kazuhiro Kamada³⁾, Kazuhiko Uchiyama²⁾, Yuji Naito⁴⁾
¹⁾Department of Gastroenterology, North Medical Center, Kyoto Prefectural University of Medicine
²⁾Molecular Gastroenterology and Hepatology, Graduate School of Medical Science, Kyoto Prefectural University of Medicine
³⁾Department of Gastroenterology, Matsushita Memorial Hospital
⁴⁾Department of Human Immunology and Nutrition Science, Graduate School of Medical Science, Kyoto Prefectural University of Medicine

Luncheon Seminar 2**VEGF Family Inhibitors that Preserve QOL/QOV ~Evolution to High-Dose~****12:35-13:35**

Chair: Susumu Ishida

- LS2-1** In the retina, veins are more likely to occlude than arteries!
Masahiko Shimura
Department of Ophthalmology, Tokyo Medical University Hachioji Medical Center
- LS2-2** New Management for DME Treatment with EYLEA 8mg
Kiyoshi Suzuma
Department of Ophthalmology, Faculty of Medicine, Kagawa University

Sponsored by Bayer Yakuhin, Ltd. / Santen Pharmaceutical Co., Ltd.

Council Meeting and General Assembly

13:45-14:45

Symposium 4
Updates in Cerebral Microcirculation

14:55-16:15

Organizer: Yoshiaki Ito
Yoshikane Izawa

- SY4-1** Structural plasticity of cerebral microcirculation
Kazuto Masamoto
Center for Neuroscience and Biomedical Engineering (CNBE), the University of Electro-Communications
- SY4-2** Microglia and neural repair in ischemic stroke
Takashi Shichita
Department of Neuroinflammation and Repair, Medical Research Laboratory, Institute of Science Tokyo
- SY4-3** Intrinsic microcirculatory disorders in Moyamoya disease
Miki Fujimura, Haruto Uchino
Department of Neurosurgery, Hokkaido University Graduate School of Medicine, Sapporo, Japan
- SY4-4** Neurovascular unit in multiple sclerosis and neuromyelitis optica spectrum disorders
Jin Nakahara
Department of Neurology, Keio University School of Medicine

Free Paper 3

16:25-17:15

Chair: Yuichiro Ogura
Tomohiro Iida

- F-09** Effect of Cataracts on Retinal Age Prediction from Fundus Images
Ryoh Funatsu, Hiroto Terasaki
Kagoshima University
- F-10** Analysis of Choroidal Lumen Volume in Hypertensive Choroidopathy Using Choroidal Vessel Identification Technology
Mizuho Mitamura, Michiyuki Saito, Susumu Ishida
Department of Ophthalmology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo, Japan
- F-11** Impact of Androgen Deprivation Therapy on Choroidal Microcirculation Assessed Using Laser Speckle Flowgraphy
Ryuya Hashimoto¹⁾, Ryo Oka²⁾, Naoki Fujioka¹⁾, Kazufumi Tanaka¹⁾, Moe Nunose¹⁾, Sara Imai¹⁾, Ryota Takenaka¹⁾, Fumihiko Yagi¹⁾
¹⁾The Department of Ophthalmology, Toho University Sakura Medical Center
²⁾The Department of Urology, Toho University Sakura Medical Center
- F-12** Ocular microcirculation is affected by systemic circulation: hypertension, venous return insufficiency, venous congestion, and bipedal standing posture
Norihiro Tsuchiya^{1,2)}, Koji Tanaka²⁾, Ryusaburo Mori²⁾, Hiroyuki Nakashizuka²⁾
¹⁾Omotetsando Internal Medicine and Ophthalmology
²⁾Nihon University Hospital
- F-13** Longitudinal Changes in En Face Choroidal Vessel Morphology in Central Serous Chorioretinopathy
Tetsuju Sekiryu
Fukushima Medical University

Closing Remarks

17:15-17:25