

特別講演

3 学会合同

特別講演 1

December 16th (Fri.) 17:00-18:00 Room 1

Chairs : Michihiro Yoshimura (Division of Cardiology, Department of Internal Medicine, The Jikei University School of Medicine)
Ichiro Shiojima (Department of Medicine II, Kansai Medical University)
Masayuki Yoshida (Life Science and Bioethics Research Center, Tokyo Medical and Dental University)

SL1

Precision Human Digital-Twins System

Thomas N. Sato (The Thomas N. Sato BioMEC-X Laboratories, ATR)

3 学会合同

特別講演 2

December 17th (Sat.) 8:30-9:30 Room 1

Chair : Kinya Otsu (National Cerebral and Cardiovascular Center)

SL2

Redefining the Pathobiology of Heart Failure with Preserved Ejection Fraction

David A. Kass (Division of Cardiology, Johns Hopkins University School of Medicine)

合同シンポジウム

3 学会合同

合同シンポジウム 1

December 16th (Fri.) 9:00-10:40 Room 2

「肺高血圧とその基盤病態」

Chairs : Yoshikazu Nakaoka (Department of Vascular Physiology Research Institute National Cerebral and Cardiovascular Center)

Norihiko Takeda (Division of Cardiology and Metabolism, Center for Molecular Medicine, Jichi Medical University)

S1-1

The roles of hypoxia signaling in pulmonary hypertension

Norihiko Takeda (Division of Cardiology and Metabolism, Center for Molecular Medicine, Jichi Medical University)

S1-2

Molecular mechanisms underlying pulmonary arterial hypertension

Koji Ikeda (Department of Epidemiology for Longevity and Regional Health, Kyoto Prefectural University of Medicine)

S1-3

Three-dimensional visualization of adaptive angiogenic response in pulmonary hypertension

Takayuki Fujiwara (Department of Cardiovascular Medicine, The University of Tokyo Hospital/
Jichi Medical University Molecular Pathogenesis)

S1-4

IL-6 signaling in the pathogenesis of pulmonary arterial hypertension

Tomohiko Ishibashi (Department of Vascular Physiology, National Cerebral and Cardiovascular Center Research Institute)

3 学会合同

合同シンポジウム 2

December 16th (Fri.) 15:10-16:50 Room 1

「Energy Metabolism in Cardiovascular Diseases」

Chairs : Satoaki Matoba (Department of Cardiovascular Medicine, Graduate School of Medicine, Kyoto Prefectural University of Medicine)

Tomohisa Nagoshi (Division of Cardiology, The Jikei University School of Medicine)

Keynote Lecture

S2-1

Cardiac metabolism as a therapeutic target of heart failure

Satoaki Matoba (Department of Cardiovascular Medicine, Graduate School of Medicine, Kyoto Prefectural University of Medicine)

S2-2

Metabolic reprogramming in heart and kidney disease

Motoaki Sano (Department of Cardiology, Keio University School of Medicine)

S2-3

Skeletal muscle is a pivotal target to combat with cardiovascular and metabolic diseases

Yasuhiro Izumiya (Department of Cardiovascular Medicine, Osaka Metropolitan University Graduate School of Medicine)

S2-4

Iron metabolism and ferroptosis are a target for cardiovascular diseases

Tomomi Ide (Department of Cardiovascular Medicine, Kyushu University)

S2-5

Development of new strategy for the treatment of cardiovascular disease using adipose tissue

Rei Shibata (Department of Advanced Cardiovascular Therapeutics, Nagoya University Graduate School of Medicine)

3 学会合同

合同シンポジウム 3

December 17th (Sat.) 16:30-18:10 Room 3

「AI・シミュレーション・イメージングを駆使した次世代心血管研究」

Chairs : Hiroki Kurihara (Department of Physiological Chemistry and Metabolism Graduate School of Medicine)

Masayuki Yoshida (Life Science and Bioethics Research Center, Tokyo Medical and Dental University)

S3-1

Application of artificial intelligence to cardiovascular research

Dai Kusumoto (Keio University School of Medicine, Department of Cardiology, Center for preventive medicine)

S3-2

The challenge for preemptive treatment of heart failure by using patient-specific cardiovascular simulation

Keita Saku (Department of Cardiovascular Dynamics, National Cerebral and Cardiovascular Center)

S3-3

Understanding of angiogenic mechanisms via vascular endothelial cell - pericyte interactions using reconstitution and imaging analyses

Koichi Nishiyama (Laboratory for Vascular and Cellular Dynamics, Department of Medical Sciences, University of Miyazaki Faculty of Medicine)

S3-4

Application of Measurement Data Fusion Flow Simulation to Biology

Yosuke Hasegawa (Institute of Industrial Science, The University of Tokyo)

シンポジウム

ISHR

シンポジウム 1

December 16th (Fri.) 13:30-15:00 Room 1

[Translational Cardiology—from Bench to Bedside—]

Chairs : Seitaro Nomura (Department of Cardiovascular Medicine, The University of Tokyo Hospital)

Shugo Tohyama (Keio University School of Medicine)

S1-ISHR-1 Elucidation of the pathogenic mechanism of Clinical Scenario 1 acute heart failure focusing on the cause of Takotsubo syndrome

Kenji Onoue (Department of Cardiovascular Medicine, Nara Medical University)

S1-ISHR-2 Novel insight into the potential role of natriuretic peptides in energy metabolism regulation

Tomohisa Nagoshi (Division of Cardiology, Department of Internal Medicine, The Jikei University School of Medicine)

S1-ISHR-3 The role of DPP-4-GLP-1 pathway in heart failure —from Bench to Bedside—

Shouji Matsushima (Department of Cardiovascular Medicine, Faculty of Medical Sciences, Kyushu University)

S1-ISHR-4 Identification of a Novel Causative Gene for Dilated Cardiomyopathy and Future Therapeutic Strategies

Hidetaka Kioka (Department of Cardiovascular Medicine, Osaka University Graduate School of Medicine)

ISHR

シンポジウム 2

December 17th (Sat.) 14:10-15:50 Room 1

[ISHR U45 Rising Star Session]

Chairs : Wataru Kimura (RIKEN Center for Biosystems Dynamics Research)

Jin Endo (Department of Cardiology, Keio University School of Medicine)

S2-ISHR-1 Endocardial hematopoiesis facilitates the heart morphogenesis

Norika Liu (Department of Cell Physiology, The Jikei University/

Molecular Cell and Developmental Biology, University of California Los Angeles)

S2-ISHR-2 miR206 secreted from growing skeletal muscle promotes angiogenic response in endothelial cells

Hiroya Hayashi (Department of Cardiovascular Medicine, Osaka Metropolitan University Graduate School of Medicine)

S2-ISHR-3 Characteristics of right ventricular cardiomyocytes derived from human pluripotent stem cells

Yukihiro Saito (Department of Cardiovascular Medicine, Okayama University Hospital)

S2-ISHR-4 Disease Modeling and Translational Research for Cancer Therapeutics-Related Cardiac Dysfunction using Human Pluripotent Stem Cells

Tomoya Kitani (Department of Cardiovascular Medicine, Kyoto Prefectural University of Medicine)

S2-ISHR-5 Role of uric acid and its regulators in cardiometabolic diseases
Yoshiro Tanaka (Division of Cardiology, Department of Internal Medicine, The Jikei University School of Medicine)

S2-ISHR-6 Long-term prognosis and genetic background of mitochondrial cardiomyopathy
Atsuko Okazaki (Diagnostics and Therapeutics of Intractable Diseases, Juntendo University, Graduate School of Medicine)

BCVR

シンポジウム 1

December 16th (Fri.) 10:50-12:20 Room 2

[development · regeneration]

Chairs : Naoki Mochizuki (National Cerebral and Cardiovascular Center Research Institute)
Yoshinori Yoshida (Department of Cell Growth and Differentiation, Center for iPS Cell Research and Application, Kyoto University)

S1-BCVR-1 Single-cell multi-omics analysis of fate determination mechanisms during cardiac development
Akiyasu Iwase (Department of Physiological Chemistry and Metabolism Graduate School of Medicine, The University of Tokyo)

S1-BCVR-2 Generation of mature cardiomyocytes and cardiac tissue from pluripotent stem cells for biomedical applications
Yoshinori Yoshida (Department of Cell Growth and Differentiation, Center for iPS Cell Research and Application, Kyoto University)

S1-BCVR-3 Bidirectional flow forces instruct endocardial cell identity for the cardiac valve development
Hajime Fukui (National Cerebral and Cardiovascular Center Research Institute (NCVC), Japan)

S1-BCVR-4 Mammalian interspecies comparison identifies AMPK as a postnatal cardiomyocyte cell cycle regulator
Wataru Kimura (RIKEN Center for Biosystems Dynamics Research)

BCVR

シンポジウム 2

December 16th (Fri.) 13:30-15:00 Room 2

[ncRNA · exosomes]

Chairs : Yuichi Oike (Department of Molecular Genetics, Graduate School of Medical Sciences, Kumamoto University)
Koh Ono (Department of Cardiovascular Medicine, Kyoto University Graduate School of Medicine)

S2-BCVR-1 Noncoding RNAs Induce Inflammatory Resolution through RNA-protein Interaction
Katsuhito Fujiu (Department of Cardiovascular Medicine, the University of Tokyo)

S2-BCVR-2 Development of nucleic acid medicine targeting microRNA-33a/b
Koh Ono (Department of Cardiovascular Medicine, Kyoto University Graduate School of Medicine)

S2-BCVR-3 Adiponectin/T-cadherin/Exosome system for organ protection
Iichiro Shimomura (Department of Metabolic Medicine, Osaka University Medical School, Japan)

S2-BCVR-4 Extracellular vesicles-based regenerative medicine for cardiac disease
Takahiro Ochiya (Department of Molecular and Cellular Medicine, Tokyo Medical University, Tokyo, Japan)

BCVR

シンポジウム 3

December 17th (Sat.) 10:30-11:50 Room 2

「mechanobiology」

Chairs : Seiji Takashima (Osaka University Graduate School of Medicine)

Ichiro Shiojima (Department of Medicine II, Kansai Medical University)

S3-BCVR-1 Wnt5a-YAP signaling axis mediates mechanotransduction in cardiac myocytes and contributes to the transition to heart failure

Ichiro Shiojima (Department of Medicine II, Kansai Medical University)

S3-BCVR-2 Mechanically activated ion channel PIEZO1 is required for lymphatic/venous valve formation

Keiko Nonomura (School of Life Science and Technology, Tokyo Institute of Technology)

S3-BCVR-3 Vessel wall remodeling and partial EndMT underlies neointima formation

Yoshito Yamashiro (National Cerebral and Cardiovascular Center Research Institute, Department of Advanced Medical Technologies Laboratory)

S3-BCVR-4 Relayed signaling between two muscle stem/progenitors ensures adaptive stem cell response to increased mechanical load

So-ichiro Fukada (Laboratory of Stem Cell Regeneration and Adaptation, Graduate School of Pharmaceutical Sciences, Osaka University)

JVBM0

シンポジウム 1

12月16日(金) 10:50-12:20 第3会場

「炎症と疾患」

座長：岩倉洋一郎 (東京理科大学生命医科学研究所)

佐藤加代子 (東京女子医科大学 循環器内科)

S1-JVBM0-1 炎症・感染防御における IL-17A/F の役割 Roles of IL-17A/F in inflammation and host defense

岩倉洋一郎 (東京理科大学生命医科学研究所)

S1-JVBM0-2 心血管代謝疾患に潜む細胞内タンパク質分解系の制御不全

宮崎 拓郎 (昭和大学医学部生化学講座)

S1-JVBM0-3 動脈硬化進展と心腎連関における IL17 IL17 contribute to the atherosclerotic development and the initiation of chronic kidney disease (CKD) in atherosclerosis

佐藤加代子 (東京女子医科大学 循環器内科)

S1-JVBM0-4 造血・免疫系によるストレス受容と慢性炎症性疾患拡大

真鍋 一郎 (千葉大学大学院医学研究院)

JVBMO

シンポジウム 2

12月16日(金) 13:30-15:00 第3会場

「臓器特異的な血流調節機構/血管新生を標的とした疾患治療最前線」

座長：中神 啓徳 (大阪大学大学院医学系研究科 健康発達医学)

榎山 暁史 (明治薬科大学 薬物治療学研究室)

S2-JVBMO-1 眼血流調節機構と臓器連関

長岡 泰司 (日本大学医学部視覚科学系眼科学分野)

S2-JVBMO-2 血流調節からみる慢性腎臓病の病態

田中 哲洋 (東北大学大学院医学系研究科 腎・膠原病・内分泌内科学分野)

S2-JVBMO-3 創傷治癒で起こる血管新生の新たな力学的制御機構： 内腔圧が TOCA ファミリー BAR タンパク質を介して血管新生を制御する

弓削 進弥 (日本医科大学先端医学研究所病態解析学部門)

S2-JVBMO-4 1 細胞遺伝子発現解析を応用した血管新生の理解

内藤 尚道 (金沢大学医薬保健研究域医学系 血管分子生理学)

JVBMO

シンポジウム 3

12月17日(土) 8:30-10:00 第3会場

「脈管から老化・寿命の制御機構に迫る—老化研究の最前線」

座長：渡部 徹郎 (東京医科歯科大学 大学院医歯学総合研究科 病態生化学分野)

高倉 伸幸 (大阪大学微生物病研究所 情報伝達分野)

S3-JVBMO-1 血管の老化性変容と血管内皮細胞のステムセルエイジング

高倉 伸幸 (大阪大学微生物病研究所 情報伝達分野)

S3-JVBMO-2 老化細胞を標的とした生活習慣病治療開発

南野 徹 (順天堂大学 大学院医学研究科 循環器内科)

S3-JVBMO-3 脈管の恒常性維持と破綻における負のアンジオクラインシグナルの役割

渡部 徹郎 (東京医科歯科大学 大学院医歯学総合研究科 病態生化学分野)

S3-JVBMO-4 老化・加齢関連疾患の制御へ挑む

尾池 雄一 (熊本大学大学院生命科学研究部 分子遺伝学講座)

JVBMO

シンポジウム 4

12月17日(土) 10:10-11:40 第3会場

「リポドロジーから解釈する新血管生物学」

座長：南 敬 (熊本大学 生命資源研究支援センター 分子血管制御学)

村田 幸久 (東京大学)

S4-JVBMO-1 イメージング質量分析の進化と血管研究への応用

瀬藤 光利 (浜松医科大学)

S4-JVBM0-2 血管内皮 shear stress 応答に関わる細胞内脂質シグナルの解析
有田 誠 (慶應義塾大学薬学部・薬学研究科代謝生理化学講座/理化学研究所生命医科学研究センター
メタボローム研究チーム/横浜国立大学大学院生命医科学研究科)

S4-JVBM0-3 sPLA2 リン脂質分解酵素群の欠損マウスの総合展開からリン脂質代謝異常と
動脈疾患の新たな関連に迫る
村上 誠 (東京大学大学院医学系研究科 疾患生命工学センター 健康環境医工学部門)

S4-JVBM0-4 血管・リンパ管新生を制御するリゾリン脂質の分子メカニズム
Molecular mechanisms of lysophospholipid-regulated angiogenesis and
lymphangiogenesis
安田 大恭 (秋田大学 大学院医学系研究科 生体防御学講座)

JVBM0

シンポジウム 5

12月17日(土) 14:00-15:30 第3会場

「最新技術で捉える vascular biology」

座長：福原 茂朋 (日本医科大学 先端医学研究所 病態解析学部門)
久保田義顕 (慶應義塾大学)

S5-JVBM0-1 シングルセルマルチオミクスで明らかにする心臓神経堤細胞の血管/
非血管細胞への分化運命決定様式
岩瀬 晃康 (東京大学大学院医学系研究科代謝生理化学)

S5-JVBM0-2 生体微小循環の機能を捉えるための高速可視化技術とその生理学研究
本藏 直樹 (浜松医科大学/JST さきがけ)

S5-JVBM0-3 造血幹細胞ニッチを形成する内皮細胞の新規分化経路の同定
中嶋 洋行 (国立循環器病研究センター研究所)

S5-JVBM0-4 ダイレクトリプログラミングによる心臓再生と抗線維化治療
家田 真樹 (筑波大学医学医療系循環器内科)

Keynote Lecture

BCVR

Keynote Lecture 1

December 16th (Fri.) 16:20-17:00 Room 2

Chair : Issei Komuro (Department of Cardiovascular Medicine, The University of Tokyo)

KL-BC-1 RNAs : versatile molecules with therapeutic potential

Stefanie Dimmeler (Institute for Cardiovascular Regeneration, Frankfurt Germany)

BCVR

Keynote Lecture 2

December 17th (Sat.) 9:30-10:20 Room 2

Chair : Toyoaki Murohara (Department of Cardiology, Nagoya University Graduate School of Medicine)

KL-BC-2 Clonal Hematopoiesis : A New Causal Risk Factor for Cardiometabolic Disease

Kenneth Walsh (University of Virginia)

BCVR

Keynote Lecture 3

December 17th (Sat.) 13:00-13:50 Room 2

Chair : Ken-ichi Hirata (Cardiovascular Medicine, Kobe University Graduate School of Medicine)

KL-BC-3 Cardio-oncology is a science or just a “Band-aid” practice?

Jun-ichi Abe (Department of Cardiology, The University of Texas MD Anderson Cancer Center, Houston, Texas, USA)

Basic Research

BCVR

Progress Report for Basic Research December 16th (Fri.) 15:10-16:10 Room 2

Chairs : Koji Maemura (Department of Cardiovascular Medicine, Nagasaki University Graduate School of Biomedical Sciences)
Masaki Ieda (Department of Cardiology, Institute of Medicine, University of Tsukuba)

PR-BC-1 Identification of long non-coding RNA *Caren* Human ortholog counteracting against heart failure development

Michio Sato (Kumamoto University/Saga University)

PR-BC-2 Specific cardiac fibroblasts cause heart failure

Jin Komuro (Keio University School of Medicine, Department of Cardiology)

PR-BC-3 Elucidating the involvement of homeotic genes in the pathogenesis of pulmonary hypertension

Masahiro Kimura (Department of Cardiology, Koto Memorial Hospital)

PR-BC-4 Development of deep learning-based drug screening system

Dai Kusumoto (Department of Cardiology, Keio University School of Medicine)

PR-BC-5 Deciphering stromal-inflammatory cell crosstalk identifies a novel mechanism underlying post-infarction cardiac repair

Atsushi Anzai (Keio University School of Medicine)

BCVR

Grant Session in Basic Research December 17th (Sat.) 8:30-9:20 Room 2

Chairs : Satoaki Matoba (Department of Cardiovascular Medicine, Graduate School of Medicine, Kyoto Prefectural University of Medicine)
Yasuchika Takeishi (Department of Cardiovascular Medicine, Fukushima Medical University)

GS-BC-1 Elucidation of the mechanism of mitochondrial dysfunction and heart failure in abnormal ferritinophagy

Jumpei Ito (Department of Pathophysiology of Heart Failure and Therapeutics, National Cerebral and Cardiovascular Center)

GS-BC-2 Single-Cell Analysis to Explore the Molecular Pathology of Heart Failure

Toshiyuki Ko (Department of Cardiovascular Medicine, The University of Tokyo Hospital)

GS-BC-3 Elucidating the Molecular Mechanisms of Cardiac Sarcoidosis by Multi-Omics Analysis

Mikako Katagiri (Department of Cardiovascular Medicine, The University of Tokyo Hospital)

GS-BC-4 Characterizing and Targeting TAOK1-mediated Cardiomyocyte Death to Treat Cardiac Diseases

Tomoya Kitani (Department of Cardiovascular Medicine, Kyoto Prefectural University of Medicine)

GS-BC-5 Hematopoietic Y Chromosome Genes and Heart Failure in Men

Soichi Sano (Department of Cardiology, Graduate School of Medicine, Osaka Metropolitan University)

第7回血管生物医学会若手研究会優秀賞・最優秀賞

JVBMO

第7回血管生物医学会若手研究会優秀賞・最優秀賞

12月16日(金) 15:10-15:55 第3会場

座長：西山 功一（宮崎大学医学部 機能制御学講座 血管動態生化学分野）
有馬勇一郎（熊本大学国際先端医学研究機構（IRCMS）心臓発生研究室）

YS-JV-1

発生期心臓におけるマクロファージの神経堤細胞との連携による冠血管・リンパ管形成制御への関与

来田真友子（東京大学大学院医学系研究科代謝生理化学）

YS-JV-2

心血管系に寄与する原羊膜壁側葉細胞の運命

羽田 優花（日本医科大学先端医学研究所病態解析学部門）

YS-JV-3

SARS-CoV-2 感染マウスを用いた肺血管内皮細胞の重症化関連遺伝子の解析

武田 遼（北海道大学大学院歯学研究院 口腔病態学分野 血管生物分子病理学教室/
北海道大学大学院歯学研究院 口腔病態学分野 口腔診断内科学教室）

YS-JV-4

加齢に伴う血管内皮幹細胞の内皮細胞産性能の低下とリバースエイジングの可能性

清水 奨太（慶應義塾大学医学部 解剖学教室（久保田義顕教授））

YS-JV-5

Partial EndMT mediated by HIF-induced CD45 in neointima formation upon carotid artery ligation

山城 義人（国立循環器病研究センター/筑波大学 生存ダイナミクス研究センター）

YS-JV-6

心臓弁形成を調節する新たな力学応答シグナルの解明

福井 一（国立循環器病研究センター研究所細胞生物学部）

共催セミナー

3 学会合同

ランチョンセミナー 1

12月16日(金) 12:30-13:20 第1会場

座長：吉村 道博（東京慈恵会医科大学 内科学講座 循環器内科）

LS1 ARNI Update ～心不全治療の New Normal～

斎藤 能彦（地方独立行政法人奈良県立病院機構 奈良県西和医療センター）

共催：ノバルティスファーマ株式会社/大塚製薬株式会社

3 学会合同

ランチョンセミナー 2

12月17日(土) 12:00-12:50 第2会場

座長：南野 徹（順天堂大学大学院医学研究科 循環器内科学）

LS2 2型糖尿病合併CKDに対する治療の変遷と今後

深水 圭（久留米大学医学部 内科学講座 腎臓内科部門）

共催：田辺三菱製薬株式会社

3 学会合同

ランチョンセミナー 3

12月17日(土) 12:00-12:50 第3会場

座長：本郷 賢一（東京慈恵会医科大学 循環器内科）

LS3 循環器内科医が診るファミリー病

稲垣 夏子（東京医科大学病院 遺伝子診療センター・循環器内科）

共催：サノフィ株式会社

3 学会合同

イブニングセミナー 1

12月16日(金) 18:10-19:00 第1会場

座長：名越 智古（東京慈恵会医科大学 内科学講座 循環器内科）

ES1 FXa 阻害薬に期待する作用

東條美奈子（北里大学大学院医療系研究科 循環器内科学）

共催：バイエル薬品株式会社

3 学会合同

イブニングセミナー 2

12月16日(金) 18:10-19:00 第2会場

座長：塩島 一郎（関西医科大学 内科学第二講座）

ES2 慢性心不全治療における SGLT2 阻害薬の役割

志賀 剛（東京慈恵会医科大学 薬理学講座）

共催：小野薬品工業株式会社/アストラゼネカ株式会社

3 学会合同

イブニングセミナー 3

12月16日(金) 18:10-19:00 第3会場

座長：桑原宏一郎（信州大学医学部 循環器内科学教室）

ES3 尿酸トランスポーターと高尿酸血症・痛風の薬物治療

高田 龍平（東京大学医学部附属病院 薬剤部）

共催：持田製薬株式会社

ISHR

YIA1

December 16th (Fri.) 9:00-10:10 Room 1

Chairs : Toshihisa Anzai (Department of Cardiovascular Medicine, Hokkaido University Graduate School of Medicine)
Masafumi Watanabe (Yamagata University Faculty of Medicine Department of Cardiology, Pulmonology, and Nephrology)
Discussants : Osamu Yamaguchi (Ehime University Graduate School of Medicine Department of Cardiology, Pulmonology, Hypertension and Nephrology)
Hiroshi Akazawa (Department of Cardiovascular Medicine, The University of Tokyo)
Yasuko K. Bando (Department of Cardiology, Nagoya University Graduate School of Medicine)
Ippei Shimizu (Juntendo University)
Yasuaki Nakagawa (Department of Cardiovascular Medicine, Kyoto University graduate school of medicine)

YIA1-IS-1 XCR1+ Conventional Dendritic Cell-Induced CD4+ T Helper 1 Cell Activation Exacerbates Cardiac Remodeling after Ischemic Myocardial Injury

Hiroyasu Inui (Department of Cardiovascular Medicine, Osaka University Graduate School of Medicine, Suita, Osaka, Japan)

YIA1-IS-2 Low-carbohydrate diets containing plant-derived fat ameliorate heart failure through stearic acid-induced PPAR α activation

Satoshi Bujo (Department of Cardiovascular Medicine, The University of Tokyo Hospital, Tokyo, Japan)

YIA1-IS-3 Cardiac Troponin Levels and Left Ventricle Ejection Fraction Changes in Heart Failure Patients with Mildly Reduced Ejection Fraction

Gaku Hatayama (Department of Cardiology, Tokyo Women's Medical University)

YIA1-IS-4 Biological effects of 3-iodothyronamine (T1AM) on the regulations of intracellular temperature and B-type natriuretic peptide expression in cardiomyocytes

Hirotake Takahashi (Division of Cardiology, Department of Internal Medicine, The Jikei University School of Medicine)

ISHR

YIA2

December 16th (Fri.) 10:20-11:30 Room 1

Chairs : Toyoaki Murohara (Department of Cardiology, Nagoya University Graduate School of Medicine)
Yasushi Sakata (Department of Cardiovascular Medicine Osaka University Graduate School of Medicine)
Discussants : Osamu Yamaguchi (Ehime University Graduate School of Medicine Department of Cardiology, Pulmonology, Hypertension and Nephrology)
Hiroshi Akazawa (Department of Cardiovascular Medicine, The University of Tokyo)
Yasuko K. Bando (Department of Cardiology, Nagoya University Graduate School of Medicine)
Ippei Shimizu (Juntendo University)
Yasuaki Nakagawa (Department of Cardiovascular Medicine, Kyoto University graduate school of medicine)

YIA2-IS-1 Nucleotide metabolism as a novel and potential target to regulate cardiomyocyte proliferation

Yuichi Saito (Laboratory for Heart Regeneration, RIKEN Center for Biosystems Dynamics Research)

YIA2-IS-2 Targeting N-myristoylation prevents cardiac hypertrophy and heart failure

Yusuke Tomita (Department of Cardiovascular Medicine, Fukushima Medical University, Fukushima, Japan)

YIA2-IS-3 Lymphatic vessel development in human embryos

Kazuaki Maruyama (Mie University, Graduate School of Medicine, Department of Pathology and Matrix Biology)

YIA2-IS-4 Mechanistic basis underlying mitochondria-dependent ferroptosis in doxorubicin-induced cardiotoxicity

Ko Abe (Department of Cardiovascular Medicine, Faculty of Medical Sciences, Kyushu University, Fukuoka, Japan)

JVBMO

YIA1

12月16日(金) 9:00-9:45 第3会場

座長：佐田 政隆 (徳島大学医歯薬学研究部循環器内科学分野)
中山 雅敬 (岡山大学研究推進機構医療系本部)
審査員：山本 誠士 (富山大学 医学部 病態・病理学講座)
西山 功一 (宮崎大学医学部 機能制御学講座 血管動態生化学分野)
南 敬 (熊本大学 生命資源研究支援センター 分子血管制御学)
伊東 史子 (東京薬科大学生命科学部)
横山 詩子 (東京医科大学 細胞生理学分野)
福原 茂朋 (日本医科大学 先端医学研究所 病態解析学部門)

YIA1-JV-1 胎生期マウスの冠血管拡張力における性差

長沢 思音 (千葉大学大学院医学部疾患システム医学/静岡県立大学薬学部生体情報分子解析学)

YIA1-JV-2 血管新生における FAT1 の機能解析

劉 瀟瀟 (東京大学医学系研究科代謝生理化学教室)

YIA1-JV-3 低酸素下周期的加圧培養によるヒト平滑筋細胞由来人工血管の開発

中村 隆 (東京医科大学細胞生理学分野)

YIA1-JV-4 Macrophage-derived exosomes attenuate osteogenic differentiation of VSMCs via the delivery of miR-X in hyperglycemic condition

馬場 功士 (九州大学循環器内科)

YIA1-JV-5 Colony stimulating factor-1 producing endothelial cells and stromal cells maintain monocytes within a perivascular bone marrow niche

江本 拓央 (神戸大学大学院医学研究科循環器内科学分野/Toronto General Research Institute, University Health Network)

YIA1-JV-6 ヒトリンパ管発生過程の解明

山口翔一郎 (三重大学医学部修復再生病理学)

座長：山下 潤（東京大学医学部附属病院）
 藤生 克仁（東京大学医学部附属病院 循環器内科）
 審査員：山本 誠士（富山大学 医学部 病態・病理学講座）
 西山 功一（宮崎大学医学部 機能制御学講座 血管動態生化学分野）
 南 敬（熊本大学 生命資源研究支援センター 分子血管制御学）
 伊東 史子（東京薬科大学生命科学部）
 横山 詩子（東京医科大学 細胞生理学分野）
 福原 茂朋（日本医科大学 先端医学研究所 病態解析学部門）

YIA2-JV-1 Transcriptome and Proteome Analyses Identify LTBP-2 as a Biomarker for Right Ventricular Dysfunction in Pulmonary Arterial Hypertension

横川 哲朗（福島県立医科大学循環器内科学講座/Pulmonary Hypertension Research Group, Centre de Recherche de l'Institut Universitaire de Cardiologie et de Pneumologie de Québec, Québec City, Québec, Canada)

YIA2-JV-2 AHR シグナル活性化を伴う腸内細菌叢変容が肺高血圧症の病態形成の鍵を握る

浅野遼太郎（国立循環器病研究センター）

YIA2-JV-3 NG2 陽性周細胞は筋幹細胞として遅筋線維の維持に寄与している

竜川 貴光（旭川医科大学 外科学講座 血管外科学分野/旭川医科大学 生化学講座）

YIA2-JV-4 腫瘍血管内皮はセルロプラスミンを介して鉄イオンを制御し、膠芽腫に薬剤耐性を与えるニッチを形成する

村松 史隆（大阪大学微生物病研究所）

YIA2-JV-5 *In vitro* 血液脳関門モデルによるがん細胞の脳転移評価系の構築

野田 翔子（東京大学大学院医学系研究科）

YIA2-JV-6 ラマンイメージングと多変量解析を用いた胸部大動脈瘤に特異的な新規バイオマーカーの同定

杉山夏緒里（早稲田大学 理工学術院総合研究所/筑波大学生存ダイナミクス研究センター）

Award Session

BCVR

Award Session

December 17th (Sat.) 17:00-18:00 Room 2

Chairs : Ippei Shimizu (Juntendo University)

Yasuko K. Bando (Department of Cardiology, Nagoya University Graduate School of Medicine)

AS-BC-1

CD163⁺ Macrophages Restrain Vascular Calcification, Promoting the Development of High-Risk Plaque

Atsushi Sakamoto (CVPPath Institute, Inc./Division of Cardiology, Internal Medicine III, Hamamatsu University School of Medicine)

AS-BC-2

Development of new agent for pulmonary vascular disease ~A strategy targeting pathological high shear stress exerted on the pulmonary arteries~

Tsutomu Shinohara (Department of Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences/Department of Pediatric cardiology, Stanford University School of Medicine)

AS-BC-3

A Novel mouse model of aortic dissection caused by a point mutation in the hybrid domain of the fibrillin-1 gene

Kenichi Kimura (Life Science Center for Survival Dynamics, TARA, University of Tsukuba, Tsukuba, Japan)

AS-BC-4

Proximal Renal Tubule derived Semaphorin 3C Regulates Pathological Cardiac Hypertrophy in Cardio-Renal Syndrome

Tomonori Aono (Department of Cardiology, Pulmonology, and Nephrology, Yamagata University School of Medicine)

AS-BC-5

Modeling SARS-CoV-2 spike receptor-binding domain-mediated inflammatory response using human induced pluripotent stem cell-derived cardiomyocytes

Shota Okuno (Department of Cardiovascular Medicine, Osaka University Graduate School of Medicine)

ISHR Oral

ISHR

Oral1

December 17th (Sat.) 13:00-13:50 Room 1

Chairs : Susumu Minamisawa (The Jikei University School of Medicine)
Satomi Adachi-Akahane (Department of Physiology, Faculty of Medicine, Toho University)

O1-IS-1 Stabilization of RyR2 tetrameric structure inhibits pressure-overloaded heart failure in mice
Yasutake Yano (Department of Medicine and Clinical Science, Yamaguchi University Graduate School of Medicine)

O1-IS-2 Restoring calmodulin binding affinity to ryanodine receptor type2 is protective in heart failure with preserved ejection fraction progression
Tomoyuki Uchida (Division of Cardiology, Department of Medicine and Clinical Science, Yamaguchi University Graduate School of Medicine)

O1-IS-3 Early pathophysiological changes in cardiac function in a transgenic mouse model with truncated carboxyl terminal domain in cMyBP-C
James Pearson (Department of Cardiac Physiology, National Cerebral & Cardiovascular Center)

O1-IS-4 The therapeutic effect of BET inhibitor on atrial fibrillation
Zonghu Song (Department of Cardiology, Faculty of Medicine, University of Tsukuba)

ISHR

Oral2

December 17th (Sat.) 16:00-17:00 Room 1

Chairs : Yasuhiro Maejima (Department of Cardiovascular Medicine, Tokyo Medical and Dental University)
Tetsuya Matoba (Department of Cardiovascular Medicine, Kyushu University)

O2-IS-1 Non-Alcoholic Fatty Liver and Adipose Tissue Inflammation Are Improved by Exogenous A-type Natriuretic Peptide Treatment in Diet-Induced Obese Mice
Haruka Kimura (Division of Cardiology, The Jikei University School of Medicine)

O2-IS-2 Upregulation of neuregulin-1/ErbB signaling attenuates the progression of diabetic cardiomyopathy in the mouse model of type 1 diabetes mellitus
Yoshinori Mikami (Department of Physiology, Faculty of Medicine, Toho University, Tokyo, Japan)

O2-IS-3 Protective effect of GLP-1 on cardiac fibrosis in heart failure
Masanori Hirose (Department of Cardiovascular Medicine, Chiba University Graduate School of Medicine, Chiba, Japan)

O2-IS-4 Disease Modeling of Mitochondrial Cardiomyopathy Using Patient-Derived Induced Pluripotent Stem Cells
Razan Elfadil Ahmed (Department of Regenerative Medicine, Jichi Medical University, Shimotsuke, Japan)

O2-IS-5 Substantial impact of URAT1-selective inhibitor on the regulation of systemic insulin resistance in diet-induced obesity
Yoshiro Tanaka (Division of Cardiology, Department of Internal Medicine, The Jikei University School of Medicine, Tokyo, Japan)

Chairs : Yasuchika Takeishi (Department of Cardiovascular Medicine, Fukushima Medical University)

Koichi Node (Department of Cardiovascular Medicine, Saga University)

Discussants : Hitoshi Nakagawa (Nara Medical University)

Yasutomi Higashikuni (Department of Cardiovascular Medicine, The University of Tokyo)

FRS-IS-1 Keap1-NRF2 pathway attenuates fibroblast activation and cardiac fibrosis

Toshiyuki Nishiji (Department of Cardiovascular Medicine, Kyoto Prefectural University of Medicine)

FRS-IS-2 Circulating Obesity Associated Pro-Fibrotic Protein as A Brown Adipokine Promotes Liver and Heart Fibrosis

Yung-Ting Hsiao (Department of Cardiovascular Biology and Medicine, Juntendo University Graduate School of Medicine)

FRS-IS-3 Deletion of macrophage dynamin-related protein 1 exacerbates inflammation and left ventricular remodeling in a mouse model of myocardial infarction

Yuki Kondo (Division of Cardiovascular Medicine, University of occupational and environmental health japan)

FRS-IS-4 Genetic and pharmacological inhibition of TRPC3/6 ameliorates pulmonary arterial hypertension in rodent models

Kenji Moriuchi (Department of Cardiovascular Medicine, Kyoto University, Graduate School of Medicine, Kyoto, Japan)

FRS-IS-5 Brown adipose tissue dysfunction promotes metabolic disorder in a failing heart

Yohko Yoshida (Department of Cardiovascular Biology and Medicine, Juntendo University Graduate School of Medicine/
Department of Advanced Senotherapeutics, Juntendo University Graduate School of Medicine)

Abstract Session Short presentation 1

December 16th (Fri.) 17:10-18:00 Room 2

Chairs : Tetsuya Matoba (Department of Cardiovascular Medicine, Kyushu University)

Hideki Uosaki (Jichi Medical University)

O1-BC-1 Physiological importance of ALK1 signaling for vascular formation in various organs of zebrafish embryos

Akihiro Urasaki (Department of Molecular Physiology, National Cerebral and Cardiovascular Center, Research Institute)

O1-BC-2 Relationship between miR206 secreted from growing skeletal muscle and angiogenic response in endothelial cells

Hiroya Hayashi (Department of Cardiovascular Medicine, Osaka City University Graduate School of Medicine)

O1-BC-3 Endothelial-specific inactivation of non-nuclear estrogen receptor- α signaling impairs estrogen protection against vascular injury

Hiroyuki Tokiwa (Department of Cardiovascular Medicine, Graduate School of Medicine, The University of Tokyo)

O1-BC-4 Reduced Proteolytic Cleavage of von Willebrand Factor Leads to Endothelial Thrombo-Inflammatory Activation and Plaque Progression after Myocardial Infarction

Koya Ozawa (Sydney Medical School, Faculty of Medicine and Health, The University of Sydney/
Nepean Hospital, NSW, Australia/
Knight Cardiovascular Institute, Oregon Health & Science University)

O1-BC-5 Inhibition of MicroRNA-33b Specifically Ameliorates Abdominal Aortic Aneurysm Formation via Suppression of Inflammatory Pathways

Tomohiro Yamasaki (Department of Cardiovascular Medicine, Graduate School of Medicine, Kyoto University)

O1-BC-6 Gut Microbiota Influence the Development of Abdominal Aortic Aneurysm by Suppressing Macrophage Accumulation

Takuo Emoto (Division of Cardiovascular Medicine, Department of Internal Medicine, Kobe University School of Medicine)

O1-BC-7 Single cell analysis on the transitional state from *Mesp 1*-expressing cardiac mesoderm cells to cardiac progenitor cells during heart development

Satoshi Inoue (Department of Pediatrics, Graduate School of Medical Science, Kyoto Prefectural University of Medicine/Anatomy and Developmental Biology, Graduate School of Medical Science, Kyoto Prefectural University of Medicine)

O1-BC-8 Generation of mature compact ventricular cardiomyocytes from human pluripotent stem cells

Shunsuke Funakoshi (Department of Cell Growth and Differentiation, Center for iPS Cell Research and Application, Kyoto university)

O1-BC-9 Production of Mature Engineered Heart Tissues with Heart-derived Collagen

Hidenori Tani (Department of Cardiology, Keio University School of Medicine)

Chairs : Masafumi Watanabe (Yamagata University Faculty of Medicine Department of Cardiology, Pulmonology, and Nephrology)
Osamu Yamaguchi (Ehime University Graduate School of Medicine Department of Cardiology, Pulmonology, Hypertension and Nephrology)

O2-BC-1 **A Pacing-Controlled Protocol for Frequency-Diastolic Relations Distinguishes Diastolic Dysfunction Specific to A Mouse HFpEF Model**

Genri Numata (The University of Tokyo Hospital)

O2-BC-2 **Overexpression of vascular G protein-coupled receptor kinase 2(GRK2) leads to uncontrolled hypertension and acute heart failure as in Clinical Scenario 1**

Hiroki Yano (Department of Cardiovascular Medicine, Nara Medical University)

O2-BC-3 **Dantrolene improves diastolic property of left ventricle in mineralcorticoid-induced hypertensive rats**

Junya Nawata (Division of Cardiology, Department of Medicine and Clinical Science, Yamaguchi University Graduate School of Medicine)

O2-BC-4 **RyR2-targeting therapy prevents ventricular tachycardia and left ventricular remodeling after myocardial infarction**

Shohei Fujii (Department of Medicine and Clinical Science, Yamaguchi University Graduate School of Medicine)

O2-BC-5 **Systemic administration of Empagliflozin Decreases Myocardial Interstitial Myoglobin Levels in Ischemia/Reperfusion Rats**

Tomohiro Hayashida (Okayama University)

O2-BC-6 **Expression of Angiotensin-like 4 (ANGPTL4) in Epicardial Adipose Tissue Is Increased in Patients with Coronary Artery Disease**

Hyuma Mogi (Division of Molecular Medicine, School of Pharmaceutical Sciences, University of Shizuoka)

O2-BC-7 **Mechanistic insight of SGLT2 inhibitors on epicardial adipose tissue**

Masayuki Takano (Department of Cardiology and Clinical Examination, Faculty of Medicine, Oita University)

O2-BC-8 **SGLT2 inhibitor Empagliflozin protects against heart failure through inhibition of inflammatory responses mediated by bone marrow-derived immune cells in mice**

Keita Horitani (Department of Medicine II, Kansai Medical University)

O2-BC-9 **DNA damage predicts therapeutic prognosis in heart failure with reduced ejection fraction of various underlying diseases**

Zehao Dai (Department of Cardiovascular Medicine, The University of Tokyo Graduate School of Medicine)

Abstract Session Short presentation3 December 17th (Sat.) 15:00-15:50 Room 2

Chairs : Tetsuo Minamino (Department of Cardiorenal and Cerebrovascular Medicine, Faculty of Medicine, Kagawa University)
Hiroshi Akazawa (Department of Cardiovascular Medicine, The University of Tokyo)

O3-BC-1 Treatment with atrial natriuretic peptide ameliorates myocardial insulin resistance and protects against ischemia-reperfusion injury in diet-induced obesity

Yuhei Oi (Division of Cardiology The Jikei University School of Medicine)

O3-BC-2 cFOS/cJUN mediated signaling in brown adipose tissue promotes pathologies in HFpEF and NASH

Jingyuan Tang (Juntendo University)

O3-BC-3 A Kinome-wide CRISPR Screening identifies TAOK1 as a Potential Therapeutic Target for Doxorubicin-induced Cardiotoxicity

Takaomi Suga (Department of Cardiovascular Medicine, Kyoto Prefectural University of Medicine)

O3-BC-4 Nobiletin, a polymethoxy flavonoid, inhibits doxorubicin-induced myocardial damage

Sonoka Iwashimizu (Division of Molecular Medicine, School of Pharmaceutical Sciences, University of Shizuoka)

O3-BC-5 Aging is associated with decreased chemokine expression in cardiac tissue macrophages

Fujimi Kudo (Department of Systems Medicine, Chiba University Graduate School of Medicine)

O3-BC-6 Depressive stress induces heart failure through hematoimmune system

Hyeree Kim (Department of Molecular Cardiovascular Pharmacology, Graduate School of Pharmaceutical Science, Chiba University/Department of Systems Medicine, Graduate School of Medicine, Chiba University)

O3-BC-7 Myonectin protects against age-related muscle atrophy by modulating mitochondrial function

Yuta Ozaki (Department of Cardiology, Nagoya University Graduate School of Medicine)

O3-BC-8 Inhibition of N-terminal acetyltransferase C prevents muscle atrophy in cancer cachexia

Yusaku Kaneko (Department of Cardiovascular Medicine, Kyoto Prefectural University of Medicine)

O3-BC-9 Nerve Growth Factor/Tropomyosin Receptor Kinase A signaling pathway plays a vital role in breast cancer progression after myocardial infarction

Tetsuya Tani (Department of Cardiovascular Medicine, Fukushima Medical University)

Abstract Session Short presentation4 December 17th (Sat.) 16:00-16:50 Room 2

Chairs : Koichiro Kuwahara (Shinshu University School of Medicine)

Norimichi Koitabashi (Department of Cardiovascular medicine, Gunma University, Graduate school of medicine)

O4-BC-1 Myofilament protein post-translational modifications may underlie right ventricular dysfunction in pulmonary hypertension

Mark T. Waddingham (Department of Cardiac Physiology, National Cerebral and Cardiovascular Center Research Institute/Department of Advanced Medical Research for Pulmonary Hypertension, National Cerebral and Cardiovascular Center)

O4-BC-2 Higher-order structure of genome plays an important role in maintaining nuclear homeostasis of cardiomyocytes

Maretoshi Hirai (Department of Pharmacology, Kansai Medical School)

O4-BC-3 Multimerization of GATA4 is required for hypertrophic responses in cultured cardiomyocytes

Ryosuke Tsukabe (Division of Molecular Medicine, Graduate School of Pharmaceutical Sciences, University of Shizuoka, Shizuoka, Japan)

O4-BC-4 The p300 Histone Acetyltransferase Inhibitor A485 Prevents Pressure Overload-induced Cardiac Dysfunction

Mizuho Yamamoto (Division of Molecular Medicine, School of Pharmaceutical Sciences, University of Shizuoka)

O4-BC-5 The Curcumin Analogue GO-Y022 Improves Pressure Overload-induced Systolic Dysfunction

Yuta Hirako (Division of Molecular Medicine, School of Pharmaceutical Sciences, University of Shizuoka, Shizuoka, Japan)

O4-BC-6 Cardiomyocyte hypertrophy is regulated by p300 binding protein 1, a novel binding protein

Ayaka Ishima (Division of Molecular Medicine, School of Pharmaceutical Sciences, University of Shizuoka, Shizuoka, Japan)

O4-BC-7 Soy protein β -conglycinin Attenuates Cardiac Hypertrophy and Heart Failure by Regulation of Gut Microbiota

Nozomi Furukawa (Department of Integrated Health Sciences, Nagoya University Graduate School of Medicine)

O4-BC-8 Lipin 1 prevents ischemic heart disease by regulating lipid homeostasis

Jiaxi Guo (Department of Cardiovascular Medicine, Graduate School of Medicine, The University of Tokyo)

O4-BC-9 Progranulin deficiency promotes adverse cardiac remodeling after myocardial infarction

Takahiro Sasaki (Mol. Pharmacol., Dept. Biofunc. Eval., Gifu Pharm. Univ.)

O4-BC-10 Cardioprotective peptide GJA 1-20k activates mitochondria to protect against ischemia-reperfusion injury

Daisuke Shimura (Nora Eccles Harrison Cardiovascular Research and Training Institute, University of Utah/Department of Surgery, School of Medicine, University of Utah)

JVBMO

一般演題 1

12月16日(金) 16:05-17:00 第3会場

座長：伊東 史子 (東京薬科大学生命科学部)
坂上 倫久 (愛媛大学プロテオサイエンスセンター/愛媛大学大学院医学系研究科心臓血管呼吸器外科学)

O1-JV-1 Delta-like ligand 1 は ApoE 欠損マウスにおいてマクロファージの活性化
ならびに動脈硬化を促進する

角森 大樹 (産業医科大学病院)

O1-JV-2 細胞外微粒子が動脈硬化症へ与える影響

加藤 勝洋 (名古屋大学大学院医学系研究科 循環器内科/名古屋大学大学院医学系研究科 生体反応病理学)

O1-JV-3 高分解能 X 線 CT イメージングによる糖尿病性腎症の早期病態解析

伊藤 菜穂 (東北大学医学部医学系研究科)

O1-JV-4 臓器横断的な一細胞解析による血管内皮細胞を介した恒常性維持機構の解明

秋葉 庸平 (慶應義塾大学医学部循環器内科)

O1-JV-5 SARS-CoV-2 による肺血管バリア機能の制御

岡田 欣晃 (大阪大学大学院薬学研究科)

O1-JV-6 ヒト三次元生体組織におけるリンパ管ネットワークの形成メカニズム

忠平 和子 (弘前大学 大学院医学研究科 生体構造医科学講座)

O1-JV-7 血小板由来増殖因子を介したリンパ管新生における Ets ファミリー転写因子の役割

吉松 康裕 (新潟大学/東京医科歯科大学)

O1-JV-8 重症肺高血圧症モデルラットを用いた芳香族炭化水素受容体および低酸素誘導
因子依存性の遺伝子発現制御の解析

岡澤 慎 (国立循環器病研究センター)

O1-JV-9 内皮間葉移行レポーター内皮細胞を用いた内皮間葉移行の遷移段階の可視化

高橋 和樹 (東京大学 生産技術研究所 機械・生体系部門/東京医科歯科大学 大学院医歯学総合研究科 病態生化学分野)

O1-JV-10 Pericytes on the capillary loop maintains epidermal stem/ progenitor
cells in human skin

澤根 美加 (株式会社資生堂みらい開発研究所)

O1-JV-11 The novel oral-gut microbial axis in cerebrovascular disease

殿村 修一 (国立循環器病研究センター研究所血管生理学部)

座長：山本 誠士（富山大学 医学部 病態・病理学講座）

小林 美穂（東京医科歯科大学大学院医歯学総合研究科病態生化学分野 /

Laboratory for Cell Polarity and Organogenesis, Max-Planck-Institute for Heart and Lung Research)

O2-JV-1 深層学習による画像解析を用いた遺伝性早老症に対する新規治療法探索

石原 朋実（慶應義塾大学医学部循環器内科）

O2-JV-2 加齢に伴う血管内皮細胞の減少とストレス応答性の関係

小林 美穂（東京医科歯科大学大学院医歯学総合研究科病態生化学分野 /

Laboratory for Cell Polarity and Organogenesis, Max-Planck-Institute for Heart and Lung Research)

O2-JV-3 Smad7^{+/-}マウスを利用した血栓症モデルマウスの解析

多川なつ美（東京薬科大学）

O2-JV-4 内皮細胞特異的 TGF- β I 型・II 型受容体欠損が腫瘍転移に与える影響

花田 賀子（東京薬科大学）

O2-JV-5 血管新生阻害剤の先行投与による免疫療法の治療効果増強

佐藤 峰嘉（北海道大学大学院歯学研究院血管生物分子病理学教室 / 北海道大学大学院医学研究院呼吸器内科学教室）

O2-JV-6 がん細胞—血管内皮細胞 Cluster 形成によるがん悪性化促進

間石 奈湖（北海道大学大学院歯学研究院血管生物分子病理学）

O2-JV-7 The oral bacterium *Streptococcus mutans* promotes tumor metastasis by inducing vascular inflammation

Yu Li（北海道大学大学院歯学研究院 口腔病態学分野 血管生物分子病理学教室 /

北海道大学大学院歯学研究院 口腔病態学分野 口腔診断内科学教室）

O2-JV-8 内皮細胞特異的 Dicer 欠損が腫瘍血管、生理的血管に与える影響

深沢 薫平（東京薬科大学）

O2-JV-9 ヒト脳毛細血管内皮細胞における細胞内内在化タンパク質の同定

伊藤 慎悟（熊本大学大学院生命科学研究部 / 熊本大学薬学部 / 熊本大学大学院薬学教育部）

O2-JV-10 高安動脈炎における腸内細菌叢変容は大動脈拡張病変の予測因子となる

真鍋 侑資（国立循環器病研究センター研究所 血管生理学部 / 大阪大学大学院医学系研究科 呼吸器免疫内科学）

座長：木戸屋浩康（福井大学学術研究院 医学系部門 血管統御学分野）

吉松 康裕（新潟大学 大学院医歯学総合研究科 薬理学分野）

O3-JV-1 VEGF-NFAT-ダウン症因子-1 シグナル軸を介した Tip 細胞分化および血管分岐制御メカニズムの解明

亀井 竣輔（熊本大学生命資源研究・支援センター分子血管制御分野）

O3-JV-2 毛細血管の維持および血管新生制御におけるペリサイトの役割とその制御機構の解明

石井 智裕（日本医科大学先端医学研究所病態解析学部門）

O3-JV-3 周細胞に発現する新規血管成熟分子 Ninjurin 1 の創傷治癒における役割

松尾 梨沙（旭川医科大学皮膚科学講座）

O3-JV-4 VE-カドヘリンによる内皮細胞の運動制御と領域化による血管形成メカニズム

礪波 一夫（東京大学大学院医学系研究科代謝生理化学分野）

O3-JV-5 ペリサイト-内皮細胞間作用による TGF β 2 を介した血管基底膜成分 4 型コラーゲンの発現制御

尾関 有香（宮崎大学医学部 機能制御学講座 血管動態生化学分野）

O3-JV-6 Connection between newly-formed intestinal vasculature and pre-existing circulatory system during zebrafish development

浦崎 明宏（国立循環器病研究センター研究所分子生理部）

O3-JV-7 ペリサイトを介した血管基底膜形成促進による力学的な血管新生機構

花田 保之（宮崎大学医学部）

O3-JV-8 細菌が産生する新規血管新生因子 BafA による VEGF 受容体シグナルの活性化

塚本健太郎（藤田医科大学医学部微生物学講座）