

Opening Remarks

Opening Remarks

December 13th(Sat.) 8:50-9:00

Satoaki Matoba

Chairperson, The 9th JCS Council Forum on Basic CardioVascular Research (BCVR2025)

Department of Cardiovascular Medicine, Kyoto Prefectural University of Medicine, Japan

Symposium

Symposium 1

December 13th(Sat.) 9:00-10:30

Nucleic Acid Therapeutics, Genome Editing, and Omics Technologies

Chairperson: Koh Ono (Kyoto University, Japan)

Seitaro Nomura (The University of Tokyo, Japan)

SY1-1 Acid-Degradable PEG-Lipid Nanoparticles Enable Efficient Cardiac mRNA Delivery in Vivo

Tomohiro Nishino (Department of Cardiovascular Medicine, Kyoto University, Japan)

SY1-2 Development of Synthetic Nucleic Acids Targeting MicroRNAs for Therapeutic Applications

Takahiro Horie (Department of Cardiovascular Medicine, Graduate School of Medicine, Kyoto University, Japan)

SY1-3 Therapeutic Genome Editing of RBM20-Associated Dilated Cardiomyopathy

Takahiko Nishiyama (Department of Cardiology, Keio University School of Medicine, Japan)

SY1-4 Engineering Compact Cas Proteins for Cardiovascular Diseases

Atsushi Hoshino (Department of Cardiovascular medicine, Kyoto Prefectural University of Medicine, Japan)

SY1-5 Development of Gene-Therapy for End-Stage Heart Failure and Ischemic Cardiomyopathy

Toshiyuki Ko (Department of Frontier Cardiovascular Science, The University of Tokyo, Japan)

Award Session

Award Session

December 13th(Sat.) 10:40-11:40

Chairperson: Ichiro Manabe (Chiba University Graduate School of Medicine, Japan)

Motoaki Sano (Yamaguchi University School of Medicine, Japan)

AS-1 TGM2-Mediated Histone Serotonylation Represents a Novel Epigenetic Cardioprotective Mechanism in HFpEF

Ryo Ogawara (Cardiovascular medicine, Fukushima Medical University, Japan)

AS-2 SVEP1: a novel fibroblast-derived blood biomarker for cardiac fibrosis

Naoya Kuwahara (Cardiovascular Medicine, Kobe University Graduate School of Medicine, Japan)

AS-3 Sipal Drives a Maladaptive Fibroblast-Myeloid Axis after Myocardial Infarction

Seien Ko (Cardiology, Keio University School of Medicine, Japan)

AS-4 SAAM-1 Immunization Mitigates Cardiac Remodeling and Vascular Lesions in Murine Models of Cardiovascular Disease

ChiehLun Hsiao (Department of Cardiovascular Biology and Medicine, Juntendo University Graduate School of Medicine, Japan)

AS-5 Tet2-Mutant Clonal Hematopoiesis Drives Aortic Aneurysm Progression via Macrophage-to-Osteoclast-like Differentiation

Jun Yonekawa (Cardiology, Nagoya University School of Medicine, Japan)

Luncheon Seminar

Luncheon Seminar 1

December 13th(Sat.) 12:00-12:50

Sponsored by Nippon Boehringer Ingelheim Co., Ltd.

Chairperson: Koh Ono (Kyoto University, Japan)

LS1 Functional analysis and applications of non-coding RNAs in cardiovascular and metabolic diseases

Takahiro Horie (Kyoto University Graduate School of Medicine, Japan)

Keynote Lecture

Keynote Lecture 1

December 13th(Sat.) 13:00-14:00

Chairperson: Issei Komuro (IUHW (International University of Health and Welfare)/ University of Tokyo, Japan)

KL-1 Applications of AI in Cardiovascular Development and Disease Modeling

Sean M Wu (Medicine and Pediatrics and Cardiovascular Institute, Stanford University School of Medicine, United States of America)

Symposium

Symposium 2

December 13th(Sat.) 14:10-15:40

Regenerative Medicine and Development

Chairperson: Masaki Ieda (Keio University, Japan)
Hideki Uosaki (Jichi Medical University, Japan)

SY2-1 Production of Cardiac Microtissues from Human iPSCs for Regenerative Therapy and Disease Modeling

Shugo Tohyama (Clinical Regenerative Medicine, Fujita Medical Innovation Center, Fujita Health University/ Kanagawa Institute of Science and Technology/ Keio University, Japan)

SY2-2 Heart Failure Treatment through Cardiac Regeneration and Antifibrosis

Taketaro Sadahiro (Department of Cardiology, Keio University School of Medicine, Japan)

SY2-3 Cardiac gene therapy for dilated cardiomyopathy caused by bi-allelic loss-of-function mutations in BAG5

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

SY2-4 Maturation of Cardiac Organoids And Their Promise for Future Cardiovascular Therapies

Kozue Murata (Department of Cardiovascular Surgery , Kyoto University Hospital, Japan)

SY2-5 Taurine Stabilizes Mitochondrial tRNALys and Restores Bioenergetics in KARS1 Related Cardiomyopathy

Takeshi Tokuyama (Department of Biochemistry, Division of Functional Biochemistry, Department of Biochemistry, JICHI Medical University., Japan)

Progress Report for Basic Research

Progress Report for Basic Research

December 13th(Sat.) 15:50-17:20

Chairperson: Mari Ishida (Hiroshima Shudo University, Japan)

Ichiro Shiojima (National Cerebral and Cardiovascular Center, Japan)

PB-1 Epicardial Fat-Mediated Lymphatic Impairment Contributes to Atrial Fibrillation Development

Ichitaro Abe (Department of Frontier Cardiovascular Science, The University of Tokyo, Japan)

PB-2 Development of a novel antiarrhythmic therapy using antisense oligonucleotide to improve the prognosis of cardiomyopathy

Hideaki Inazumi (The University of Tokyo/ Kyoto University/ Japanese Society for the Promotion of Science, Japan)

PB-3 Multi-omics analysis on atrial structural remodeling in patients with atrial fibrillation

Kosuke Sawami (Department of Frontier Cardiovascular Science, The University of Tokyo Hospital, Japan)

PB-4 Characterization of Cardiac FAPs and Therapeutic Strategies via Primary Cilia

Daishi Yamakawa (Department of Molecular Physiology and Cardiovascular Biology, Graduate School of Medicine, Mie University, Japan)

PB-5 Role of interleukin 34 in pulmonary hypertension due to pulmonary fibrosis

Tetsuro Yokokawa (Department of Cardiovascular Medicine, Fukushima Medical University, Japan)

Poster Session

Poster Session

December 13th(Sat.) 17:30-19:00

Cardiac and Systemic Metabolism

P-1 Renal Proximal Epithelial Cells Retain Adipogenicity in a Primary Cilia Dependent Fashion

Raymond Adjei (Molecular Physiology and Cardiovascular Biology, Mie University, Japan)

- P-2** **Myocardial Lipin1 Attenuates Ischemic Injury through Preservation of Lipid Homeostasis**
Jiayi Guo (Department of Anesthesiology, The First Affiliated Hospital, Zhejiang University School of Medicine, China/ Department of Cardiovascular Medicine, Graduate School of Medicine, The University of Tokyo, Japan)
- P-3** **Pivotal Role of TGF β /SMAD-Mediated Endothelial-to-Mesenchymal Transition in Vitamin D Deficiency-Induced Cardiac Fibrosis**
Monisha Jayabalan (Anatomy, Dr. A.L.M Postgraduate Institute of Basic Medical Sciences, University of Madras, India)
- P-4** **Effects of Soluble Guanylate Cyclase (sGC) Stimulator in High Fat Diet-induced Obesity in Rats and 3T3-L1 Adipocytes**
PangYen Liu (Cardiology, Tri-Service General Hospital, Taiwan)
- P-5** **Molecular Mechanisms Underlying Trastuzumab-Induced Cardiotoxicity in Diabetes Mellitus**
Yoshinori Mikami (Department of Physiology, Faculty of Medicine, Toho University, Japan)
- P-6** **Investigation of energy substrates governing pacemaking function of the sinus node in mice**
Shu Nakao (Department of Physiology/ The Institute of Medical Sciences, Tokai University School of Medicine/ College of Life Sciences, Ritsumeikan University, Japan)
- P-7** **Metabolic Landscape of Human End-Stage Ischemic Cardiomyopathy Shows Remarkable Similarities to Non-Ischemic Cardiomyopathy**
Sho Tanosaki (Cardiovascular Institute, University of Pennsylvania, United States of America)

Poster Session

December 13th(Sat.) 17:30-19:00

Gene therapy/Cell Therapy

- P-8** **Development of a Genome Editing Therapy for Dyslipidemia with Minimized Off-Target Effects**
Tomohiro Hino (Cardiovascular Medicine, Department of Cardiovascular Medicine, Graduate School of Medical Science, Kyoto Prefectural University of Medicine, Japan)
- P-9** **TAOK1 as a Novel Therapeutic Target to Prevent Cardiomyocyte Death under Doxorubicin- or Hypoxia-Induced Stress**
Masatsugu Oishi (Cardiology, Kyoto Prefectural University of Medicine, Japan)
- P-10** **Development of Highly Functional Compact Cytosine Base Editing Tools Using Deep Mutational Scanning**
Yu Sakaue (Department of Cardiovascular Medicine, Kyoto Prefectural University of Medicine, Japan)
- P-11** **A CnCas12f-based genome-editing tool derived by deep mutational scanning**
Satoshi Tasaka (Cardiology, Kyoto Prefectural University of Medicine, Japan)
- P-12** **Engineering of Hypercompact CRISPR-Cas12j for Clinical Applications**
Yuka Toyoshima (Cardiovascular Medicine, Kyoto Prefectural University of Medicine, Japan)
- P-13** **Engineering a Compact Cas9d for AAV-Based Base Editing Therapy**
Yuki Uchio (Cardiology, Kyoto prefectural university of medicine, Japan)

Poster Session

December 13th(Sat.) 17:30-19:00

Heart Failure

- P-14** **Cardiac Macrophage-Derived Chemokine Modulates Pressure Overload-Induced Cardiac Remodeling**
Fujimi Kudo (Department of Systems Medicine, Chiba University Graduate School of Medicine, Japan)
- P-15** **The complement C3-complement factor D-C3a receptor signalling axis regulation for right heart failure.**
Kazuhiro Kuroda (Cardiovascular Medicine, Okayama University Hospital, Japan)
- P-16** **Macrophage extracellular traps promote maladaptive cardiac remodeling and heart failure via PAD4-dependent mechanisms**
Tomofumi Misaka (Cardiovascular Medicine/ Department of Community Cardiovascular Medicine, Fukushima Medical University, Japan)
- P-17** **A Novel CKD-HFpEF Model Preserving Renal Afferent Nerves: Kidney Surface Ablation for Investigating Neurogenic Contribution to Cardiorenal Interaction**
Ryohei Miyamoto (Department of Cardiovascular Medicine, Faculty of Medical Sciences, Kyushu University, Japan)
- P-18** **Sex-Specific Alterations in Estradiol-Associated Circulating miRNA Profiles in Heart Failure**
Shun Nakamura (Department of Cardiovascular Medicine, Institute of Science Tokyo/ Department of Cardiovascular Medicine, The University of Tokyo Hospital, Japan)
- P-19** **Cardioprotection of β -Aminoisobutyric Acid, an Exercise-Derived Amino Acids, against Doxorubicin-Induced Cardiomyopathy**
Ryo Numazawa (Department of Pharmacology, Sapporo Medical University School of Medicine, Japan)
- P-20** **Proteomic Analysis of Circulating Extracellular Vesicles Identifies CAPG as a Prognostic Marker in Heart Failure**
Satoshi Okochi (Cardiovascular Medicine, Fukushima Medical University, Japan)

Poster Session

December 13th(Sat.) 17:30-19:00

Inflammation/Regeneration

- P-21** **IGFBP2 Promotes Proliferation of Human iPSC-Derived Cardiomyocyte through the PTEN-AKT Signaling Axis**
Soah Lee (Pharmacy, Sungkyunkwan University, Korea)
- P-22** **VEGF-C-mediated Cardiac Lymphangiogenesis Promotes Inflammation Resolution in Autoimmune Acute Myocarditis in Mice**
Nanako Nakanishi (Pathology and Matrix Biology, Mie University, Japan)
- P-23** **Targeting the CXCL10-IFN-gamma axis to prevent myocardial injury following mRNA vaccination**
Masataka Nishiga (Cardiovascular Institute, Stanford University, United States of America)
- P-24** **Regulatory Role of Nitrosative Stress in Cardiomyocyte Proliferation and Fibrotic Regression during Post-Cryoinjury Cardiac Regeneration in Adult Zebrafish**
Muhammed ibrahim Sekar (Department of Anatomy, Dr. ALM Postgraduate Institute of Basic Medical Sciences University of Madras, India)

P-25 **SPP1 Expressing Macrophages Drive Fibro Calcific Remodeling in Lung Fibrosis and Aortic Stenosis: Implications for Heart Failure Pathogenesis**
Kohsuke Shirakawa (Cardiology, Keio University School of Medicine, Japan)

P-26 **Protective Effects of Omentin against Oxidative Stress-Induced Endothelial Damage: Restoration of Barrier Function and Adherens Junction Integrity**
Yoke Keong Yong (Human Anatomy, Faculty of Medicine and Health Sciences, Universiti Putra Malaysia, Malaysia)

Poster Session

December 13th(Sat.) 17:30-19:00

Mitochondria/Oxidative Stress

P-27 **Investigation of mtDNA Polymorphism Found in Normal Inbred Mouse Strain**
Satomi Hayashi (Biological Sciences, The university of Osaka, Japan)

P-28 **Inhibition of VDAC1 Oligomerization Exacerbates Doxorubicin-Induced Mitochondrial Dysfunction via Iron Overload and Oxidative Stress**
Shunsuke Miura (Department of Cardiovascular Medicine, Fukushima Medical University, Japan)

P-29 **Deep Learning Integration of Single-Cell and Bulk Transcriptomics to Map Oxidative Stress Trajectories in Human Myocardium**
Prihantini Prihantini (AI-BioMedicine Research Group, IMCDS-BioMed Research Foundation, Indonesia)

P-30 **Maintenance of acetyl-CoA synthetase 2 prevents cytosolic acetyl-CoA depletion and cardiac dysfunction**
Toranosuke Sekine (Department of Cardiology, Fukushima Medical University, Japan)

P-31 **Screening for compounds that improve mitochondrial function by modulating mitochondrial nucleoid morphology**
Hanabusa Soichiro (Department of Biological Sciences, Graduate School of Science, The University of Osaka, Japan)

P-32 **Deferoxamine Protects against Doxorubicin-Induced Cardiotoxicity by Inducing Heme Oxygenase-1**
Yoshikatsu Takeda (Pediatrics, Kanazawa University, Japan)

Poster Session

December 13th(Sat.) 17:30-19:00

Translational Research/Cell Signaling

P-33 **Expression of Incretin Receptor in Fibro-Adipogenic Progenitor Cells in Mice**
Chihomi Banno (Molecular Physiology and Cardiovascular Biology, Mie University, Japan)

P-34 **A Spontaneous Atrial Fibrillation Mouse Model: a Platform for Exploring Atrial Fibrillation Pathogenesis and Therapeutics**
Nur Syakirah Binti Othman (Department of Cardiovascular Aging, National Cerebral and Cardiovascular Centre, Japan)

- P-35** **Machine Learning_Driven Multi_Omic Atlas of Stress_Responsive Regulatory Elements Predicting Anthracycline Cardiotoxicity and Arrhythmia Risk in Breast Cancer Survivors**
Rifaldy Fajar (Mathematics and Computer Science, Karlstad University, Sweden)
- P-36** **Immune-Mediated Clearance of Senescent Cells via Sensitization: a Novel Approach for Treating Age-Associated Disorders**
ChiehLun Hsiao (Department of Cardiovascular Biology and Medicine, Juntendo University Graduate School of Medicine Department, Japan)
- P-37** **Senescence-associated metabolic shift impedes endothelial angiogenic functions**
Fumiaki Ito (Department of Cardiovascular Medicine, Graduate School of Medical Science, Kyoto Prefectural University of Medicine, Japan)
- P-38** **SGLT2 Inhibitors suppress Atrial Fibrillation through Regulation of Macrophage-mediated Inflammation and Fibrosis in Mice**
Satoshi Iwamiya (Department of cardiovascular Medicine, Institute of Science Tokyo, Japan)
- P-39** **Inhibition of N-terminal acetyltransferase C mitigates ER stress-mediated muscle atrophy in cancer cachexia.**
Yusaku Kaneko (Department of Cardiovascular Medicine, Nishijin Hospital, Japan)
- P-40** **The clock gene Tef promoted the expression of Col1a1 in human cardiac fibroblasts.**
Kenta Kaneshiro (Division of Evidence-Based Laboratory Medicine, Kobe University Graduate School of Medicine, Japan)
- P-41** **Single-Cell and Nucleus Transcriptomics with TCR Repertoire Profiling Identify Immune-Myofibroblast Crosstalk via SPP1 and PAR Signaling in CTEPH**
Keisuke Nakamura (Cardiovascular Medicine, Kobe University, Japan)
- P-42** **Deep Learning Integration of Blood DNA Methylation and Endothelial Transcriptomes Predicts Aging-Driven Plaque Risk**
Sahnaz Vivinda Putri (Health Management Laboratory, International University Semen Indonesia, Indonesia)
- P-43** **Pharmacoinformatic Evaluation of Thiazole-Coumarin-Azomethine Derivatives Targeting the Klotho-Wnt Axis for Cardio-Cerebrovascular Disease Prevention**
Rizki Rachmad Saputra (Chemistry, Universitas Palangka Raya, Indonesia)
- P-44** **Mathematical Model of Transcriptional Burst-Splice Instability Predicts Atrial Fibrillation Maintenance from Single-Nucleus RNA Data**
Elfiany Syafruddin (Computational Science Research Laboratory, BLK Muhammadiyah University, Indonesia)
- P-45** **Role of Procollagen C-proteinase Enhancer-1 (PCPE-1) in Aging-related Renal Fibrosis and UUO-induced Heart Failure**
Aung Tinmay (Department of Cardiovascular Aging, National Cerebral and Cardiovascular Center, Japan)

P-46 **Machine Learning-Derived Signal-Integration Burden of Piezo1-YAP/TAZ and TGF β EndoMT Predicts Microvascular Rarefaction in Human Heart Failure**

Rini Winarti (Biology, Yogyakarta State University, Indonesia)

P-47 **TMAO Impairs Skeletal Muscle Function by Disrupting Autophagy Lysosome Homeostasis**

Li Zhihong (Department of Cardiovascular Aging, National Cerebral and Cardiovascular Center, Japan)

Poster Session

December 13th(Sat.) 17:30-19:00

Vascular Biology

P-48 **Targeting endothelial cannabinoid receptor 1 ameliorates disturbed flow-induced vascular inflammation and atherosclerosis in vivo**

Dai Jung Chung (Department and Graduate Institute of Pharmacology, National Taiwan University, College of Medicine, Taiwan)

P-49 **Efficacy and Safety of Interleukin-6 Receptor Inhibitors in Giant Cell Arteritis: a Systematic Review and Meta-Analysis of Randomized Controlled Trials**

Mohamed Hamouda Elkasaby (Faculty of Medicine, Al-Azhar University, Egypt)

P-50 **Deletion of Integrin Alpha 1 Suppresses Angiotensin II-Induced Abdominal Aortic Aneurysm Rupture**

Yoshitake Fukuda (Department of Cardiovascular Medicine, Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama University, Japan)

P-51 **VSMC-Specific NRDC Deficiency Improves Survival by Reducing Rupture-Related Deaths in Mice.**

Enkhjin Gansukh (Pharmacology, Shiga University of Medical Science, Japan)

P-52 **The impact of PERM1 in acute lower limb ischemia**

Chun Yang Huang (Division of Cardiovascular Surgery, Taipei Veterans General Hospital/ Cardiovascular Surgery, National Yang-Ming Chiao-Tung University Hospital, Taiwan)

P-53 **Single cell and Spatial transcriptome analysis of Vascular Calcification in a Mouse Model of Chronic Kidney Disease**

Mitsukuni Kimura (Department of Cardiovascular Medicine, Kyushu University, Japan)

P-54 **Notch Ligand Dll1 Promotes Macrophage Activation and Arteriosclerosis**

Junichiro Koga (The Second Department of Internal Medicine, University of Occupational and Environmental Health, Japan, Japan)

P-55 **The Effect of Ketone Bodies on angiogenesis**

Takumi Nagakura (Cardiology, Kumamoto University Hospital, Japan)

Morning Seminar

Morning Seminar

December 14th (Sun.) 8:15-8:50

Sponsored by Daiichi Sankyo Co., Ltd

Chairperson: Koh Ono (Kyoto University, Japan)

MS

Long-Term Management Strategies for Venous Thromboembolism

Naohiko Nakanishi (Kyoto Prefectural University of Medicine, Japan)

Keynote Lecture

Keynote Lecture 2

December 14th (Sun.) 9:00-10:00

Chairperson: Yasuchika Takeishi (Fukushima Medical University Hospital, Japan)

KL-2

Understanding Human Cardiac Metabolism

Zoltan Pierre Arany (Cardiology, University of Pennsylvania, United States of America)

Symposium

Symposium 3

December 14th (Sun.) 10:10-11:40

Mitochondria, Metabolism and Cardiovascular diseases

Chairperson: Naotada Ishihara (Osaka University, Japan)
Norihiko Takeda (The University of Tokyo, Japan)

SY3-1

Reverse genetic studies on mutant mitochondrial DNAs in mice: Insights for understanding mitochondrial DNA-based disorders

Kazuto Nakada (Institute of Life and Environmental Sciences, University of Tsukuba, Japan)

SY3-2

Lipid metabolism through mitochondria

Yasushi Tamura (Faculty of Science, Yamagata University, Japan)

SY3-3

Essential role of coordinated dynamics of the mitochondrial membranes and nucleoids in cardiac function

Takaya Ishihara (Department of Life Science, Shimane University/ Department of Biological Sciences, The University of Osaka, Japan)

SY3-4

Novel Regulatory Mechanism of Myocardial Inflammation Mediated by Mitochondrial DNA

Shouji Matsushima (Department of Cardiovascular Medicine, Kyushu University Hospital, Japan)

SY3-5

Linking Inflammation to Metabolic Changes in Heart Disease

Yasutomi Higashikuni (Center for Molecular Medicine, Jichi Medical University, Japan)

Luncheon Seminar

Luncheon Seminar 2

December 14th(Sun.) 12:00-12:50

Sponsored by Novartis Pharma K.K / Otsuka Pharmaceutical Co., Ltd.

Chairperson: Satoaki Matoba (Kyoto Prefectural University of Medicine, Japan)

LS2-1 Effects of Natriuretic Peptides on the Kidney -Impact on Podocytes and Renal Blood Flow-

Hideki Yokoi (Kumamoto University Graduate School of Medicine, Japan)

LS2-2 The Role of Natriuretic Peptides in Evolution and Their Actions in the Kidney

Akira Nishiyama (Kagawa University/Japanese Society of Hypertension, Japan)

Grant Session in Basic Research

Grant Session in Basic Research

December 14th(Sun.) 13:00-14:00

Chairperson: Shinsuke Yuasa (Okayama University, Japan)

Soichi Sano (National Cerebral and Cardiovascular Center, Japan)

GB-1 The Development of Novel Therapeutics Targeting Gut Dysbiosis in Pulmonary Arterial Hypertension

Ryotaro Asano (Vascular Physiology, National Cerebral and Cardiovascular Center, Japan)

GB-2 Understanding the Pathological Mechanism of the Cardio-Sarcopenia Syndrome Caused by Age-related Change in Macrophages

Mao Kuriki (Department of Medical Biochemistry, Institute of Science Tokyo, Japan)

GB-3 Metabolic Reprogramming of Vascular Endothelial Stem Cells as a Novel Therapeutic Target in HFpEF Pathogenesis

Yuki Tatekoshi (Department of Pharmacology, Sapporo Medical University/ Division of Cardiovascular-Kidney-Metabolic Medicine, Department of Internal Medicine, Sapporo Medical University School of Medicine, Japan)

GB-4 Elucidation of New Pathophysiology of Heart Failure and Drug Discovery Applications Focusing on Heart-Kidney Interaction using Organoid Technology

Hidehori Tani (Department of Clinical Regenerative Medicine, Cardiology, Fujita Medical Innovation Center Tokyo, Fujita Health University, Japan)

GB-5 Lineage-Specific Tissue Macrophage Mediated Pathological Microenvironments in Cardiac Fibrosis

Norika Liu (International Research Center for Medical Sciences, Kumamoto University, Japan)

JCS/U45 ISHR Joint Symposium

JCS/U45 ISHR Joint Symposium

December 14th(Sun.) 14:10-15:20

Rising star session

Chairperson: Atsuko Okazaki (Juntendo University, Japan)
Yoshimitsu Yura (Nagoya University Hospital, Japan)

Joint-1 Vascular Homeostasis as a Foundation for Cancer Immune Activation

Megumu Tanaka (Department of Cardiovascular Research, Shinshu University School of Medicine, Japan)

Joint-2 RNA regulation as a protective mechanism in cardiac stress and remodeling

Teruki Sato (Department of Cardiovascular medicine, Akita university Graduate School of medicine/
Department of Pharmacology, Kyushu university Graduate School of medicine, Japan)

Joint-3 A Novel BAT-derived Pro-Fibrotic Protein Promotes Pathogenesis in Cardiovascular-metabolic Diseases

Yung Ting Hsiao (Department of Cardiovascular Aging, National Cerebral and Cardiovascular Center Research Institute, Japan)

Joint-4 Spatial Omics Analysis of Immune Cell Infiltration in Cardiac Sarcoidosis

Mikako Katagiri (Department of Cardiovascular Medicine, Graduate School of Medicine, The University of Tokyo, Japan)

Joint-5 Elucidation of the protective effect of endocardial-derived tissue macrophages against myocardial fibrosis

Norika Liu (International Research Center for Medical Sciences, Kumamoto University, Japan)

Joint-6 Heart failure-specific cardiac fibroblasts promote cardiac dysfunction via the MYC-CXCL1-CXCR2 signaling axis

Jin Komuro (Department of Cardiology, The University of Tokyo/ Department of Cardiology, Keio University, Japan)

Symposium

Symposium 4

December 14th(Sun.) 15:30-17:00

Senescence and Cardiovascular aging

Chairperson: Eiji Hara (Osaka University, Japan)
Yuichi Oike (Kumamoto University, Japan)

SY4-1 Capillary deterioration due to aging and its regulation

Nobuyuki Takakura (Department of Signal Transduction, Research Institute for Microbial Diseases, The University of Osaka, Japan)

SY4-2 Age-related loss of organ-specific endothelial cell heterogeneity and its impact on organismal aging

Shigetomo Fukuhara (Dept. of Mol. Pathophysiol., Inst. of Adv. Med. Sci., Nippon Medical School, Japan)

SY4-3 Innate immune memory in age-associated diseases

Ichiro Manabe (Systems Medicine, Chiba University Graduate School of Medicine, Japan)

SY4-4 Exploring the Molecular Basis of Cardiac Aging

Michio Sato (Department of Molecular Genetics, Kumamoto University/ Cardiology, Department of Cardiovascular Medicine, Faculty of Medicine, Saga University, Japan)

SY4-5 Roles and Mechanisms of Cellular Senescence in Aging and Aging-Associated Diseases: Insights into Microbial Interactions

Eiji Hara (Research Institute for Microbial Diseases, The University of Osaka, Japan)

Closing and Award Ceremony

Closing and Award Ceremony

December 14th(Sun.) 17:05-17:30