Poster Presentation On-demand

Poster Presentation

Vascular pathophysiology

P01-1 **Protective action of the gut microbial metabolite butyrate against cardiac hypertrophy**

Masahiko Umei (Graduate School of Medicine, The University of Tokyo, Japan)

P01-2 **Effect of dapagliflozin on renal endothelial function and renal tissue PO2 in type 2 diabetes**

Pei Chen Connie Ow (Cardiac Physiology, National Cerebral and Cardiovascular Research Institute, Japan)

P01-3 **Clonal hematopoiesis with JAK2V617F promotes pulmonary hypertension through ALK1**

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

P01-4 **IL-6 signaling in the CD4-positive T cells is important for the pathogenesis of PAH**

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

P01-5 **Cavin-1 modulates BMP/Smad signaling through the interaction of Caveolin-1 with BMPRII in PAECs**

Shinya Tomita (Department of Cardiovascular Medicine, Kyoto Prefectural University of Medicine, Japan)

P01-6 **Indoxyl sulfate-induced vascular calcification is mediated through altered Notch signaling pathway**

Kazutoshi Yamaguchi (Department of Cardiology, Nagoya University Graduate School of Medicine, Japan)

P01-7 **Crucial role of hematopoietic JAK2V617F mutation in the development of aortic aneurysms**

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

P01-8 **RhoA inhibits aortic aneurysm by preserving smooth muscle contractility and preventing inflammation**

Md Rasel Molla (Division of Molecular Medical Biochemistry, Department of Biochemistry and Molecular Biology, Shiga University of Medical Science, Japan)

Poster Presentation

Angiogenesis and development

P02-1 **Angiogenic exosomes secreted from adipose-derived regenerative cells contribute to blood perfusion**

Tomohiro Kato (Department of Cardiology, Nagoya University Graduate School of Medicine, Japan)

P02-2 **Implantation of adipose-derived regenerative cells into HLI does not promote remote tumor growth**

Junya Suzuki (Department of Cardiology, Nagoya University Graduate School of Medicine, Japan)

P02-3 **SPPARMα, pemafibrate, stimulates endothelial cell function and ischemia-induced revascularization**

Hiroshi Kawanishi (Department of Cardiology, Nagoya University Graduate School of Medicine, Japan)

P02-4 **Effects of the clock gene Cryptochrome dysfunction on angiogenesis**

Kazuhito Tsuzuki (Department of Cardiology, Nagoya University Graduate School of Medicine, Japan)

P02-5 **Pericytes enhance angiogenic vessel elongation by preventing excessive lumen expansion**

Yasuyuki Hanada (International Research Center for Medical Sciences, Kumamoto University, Japan／Department of Cardiology, Nagoya University Graduate School of Medicine, Japan)

P02-6 **Mitochondrial dynamics regulates cardiomyocyte cell cycle**

Akane Sakaguchi (Center for Biosystems Dynamics Research, RIKEN, Japan)

P02-7 **Canonical Wnt signaling-activated cardiomyocytes regulate coronary vessel formation in zebrafish**

Ayano Chiba (Department of Cell Biology, National Cerebral and Cardiovascular Center Research Institute, Japan)

P02-8 **Reprogramming adult mouse ADRC toward cardiomyocyte by defined 6 transcriptional factors**

Shingo Narita (Department of Cardiology, Nagoya University Graduate School of Medicine, Japan)

Poster Presentation

Infalammation and cell death

P03-1 **Sterile Inflammation through CaMKII Signaling in non-ischemic heart failure**

Takeshi Suetomi (Yamaguchi University, Japan)

P03-2 **Pemafibrate reduces the rupture of abdominal aortic aneurysm in murine model**

Naofumi Amioka (Department of Cardiovascular Medicine, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Science, Japan)

P03-3 **Pemafibrate suppresses liver inflammation caused by atherogenic diet and improves cardiac function**

Kotaro Kanno (Osaka University, Japan)

P03-4 **Pemafibrate reduced hepatic fibrosis and cardiac inflammation in STZ induced diabetic mice**

Jiuyang Chang (Department of Cardiovascular, Osaka University, Japan)

P03-5 **Genome-wide CRISPR screen identifies Keap1-NRF2 pathway as a crucial regulator for fibrosis**

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

P03-6 **Activation of GLP-1 by DPP-4 inhibitor ameliorates myocardial fibrosis in heart failure**

Masanori Hirose (Department of Cardiovascular Medicine, Chiba University Graduate School of Medicine, Japan)

P03-7 **Cavin-2 deficiency suppresses VCAM-1 expression and monocyte adhesion to endothelial cells**

Akira Sakamoto (Department of Cardiovascular Medicine, Kyoto Prefectural University of Medicine, Japan)

P03-8 **Nuclear phosphorylated MLKL predicts future adverse events in patients with dilated cardiomyopathy**

Yugo Fujita (Department of Cardiovascular, Renal and Metabolic Medicine, Sapporo Medical University School of Medicine, Japan)

P03-9 **Xanthine oxidase inhibition attenuates doxorubicin-induced cardiotoxicity in mice**

Yoshiro Tanaka (Division of Cardiology, The Jikei University School of Medicine, Japan)

P03-10 **Dietary 7-ketocholesterol exacerbates myocardial ischemia-reperfusion injury in mice**

Tomoki Uchikawa (Department of Cardiovascular Medicine Graduate School of Medical Sciences, Kyushu University, Japan)

Poster Presentation

Signaling and new therapy

P04-1 **Novel candidates for heart failure therapy identified by high throughput screening assay**

Satoshi Shimizu (Division of Molecular Medicine, Graduate School of Pharmaceutical Sciences, University of Shizuoka, Japan／Division of Translational Research, Clinical Research Institute, Kyoto Medical Center, National Hospital Organization, Japan)

P04-2 **Development of new endomyocardial biopsy forceps with contact state estimation by electromyogram EM**

Tomoyuki Umemoto (Department of Cardiovascular Medicine, Tokyo Medical and Dental University (TMDU), Japan)

P04-3 **The serotonin-2A receptor antagonist sarpogrelate prevents the development of heart failure in mice**

Kana Shimizu (Division of Molecular Medicine, Graduate School of Integrated Pharmaceutical and Nutritional Sciences, University of Shizuoka, Japan／Division of Translational Research, Kyoto Medical Center, National Hospital Organization, Japan)

P04-4 **Prevention of cardiac dysfunction by a novel orally available CRHR2 inhibitor in mice model**

Yu Mori (Department of Cardiology, Nagoya University Graduate School of Medicine, Japan)

P04-5 **Adeno-associated virus-mediated gene delivery promotes homology-directed repair in cardiomyocytes**

Yasuaki Kohama (Department of Cardiovascular Medicine, Osaka University Graduate School of Medicine, Japan)

P04-6 **Clinical significance of clonal hematopoiesis with JAK2V617F in patients with cardiovascular disease**

Kento Wada (Department of Cardiovascular Medicine, Fukushima Medical University, Japan)

P04-7 **CXCR7 ameliorates myocardial infarction as a β-arrestin-biased receptor**

Masato Ishizuka (Department of Cardiovascular Medicine, Graduate School of Medicine, The University of Tokyo, Japan)

Poster Presentation

Metabolism aging

P05-1 **Cardiac aging is regulated by autophagic disorder**

Takahiro Kamihara (Department of Cardiology, Nagoya University Graduate School of Medicine, Japan)

P05-2 **Postprandial glucose and TG metabolism govern premature aging and rejuvenation of bone marrow**

Masayoshi Iwasaki (Department of Medicine II, Kansai Medical University, Japan)

P05-3 **Cellular senescence of endothelial cells impairs angiogenesis by altering energy metabolism through**

Ryota Urata (Department of Cardiovascular Medicine, Kyoto Prefectural University of Medicine, Japan)

P05-4 **Coronary NO & endothelium derived hyperpolarization changes with accelerated aging in SAMP mice**

Jennifer P Ngo (Department of Cardiovascular Physiology, National Cerebral and Cardiovascular Center Research Institute, Japan)

P05-5 **Ketone body and FGF21 promote PPARα signaling and adaptive oxidative stress response in the heart**

Ryo Kawakami (Department of Cardiovascular Medicine, Gunma University Graduate School of Medicine, Japan)

P05-6 **Limited fatty acid use by CD36 deficiency accelerates the development of diabetic cardiomyopathy**

Ryo Kawakami (Department of Cardiovascular Medicine, Gunma University Graduate School of Medicine, Japan)

P05-7 **Distinct intracellular localization of AMP deaminase in diabetic cardiomyopathy**

Arata Osanami (Cardiovascular, Renal and Metabolic Medicine, Sapporo Medical University, Japan)

P05-8 **Manipulating BCKA catabolism via modulation of gut microbiota for treating obesity**

Naofumi Yoshida (Division of Cardiovascular Medicine, Department of Internal Medicine, Kobe University Graduate School of Medicine, Japan)

P05-9 **Lipophagy prevents the progression of fatty liver diseases**

Yoshito Minami (Department of Cardiovascular, Kyoto Prefectural University of Medicine, Japan)

P05-10 **Adipose ERK2 deficiency in obese mice induced endothelial dysfunction by perivascular adipose tissue**

Ayumu Osaki (Department of Cardiology, National Defense Medical College, Japan)

P05-11 **Differential effects of low-carbohydrate, high-fat ketogenic diets with different fat sources on car**

Yumeno Kawai (Department of Integrated Health Sciences, Nagoya University Graduate School of Medicine, Japan)

Poster Presentation

Heart failure

P06-1 **Cardiac fibroblast-driven FGF21 regulates pathological remodeling induced by pressure overload**

Nozomi Furukawa (Department of Cardiovascular Medicine, Gunma University, Japan)

P06-2 **EPA and DHA suppressed p300 HAT activity and prevented MI-induced systolic dysfunction**

Masafumi Funamoto (Department of Molecular Medicine, School of Pharmaceutical Sciences, University of Shizuoka, Japan／Kyoto Medical Center, National Hospital Organization, Japan)

P06-3 **Dysregulation of actin-myosin cross-bridges contribute to the pathogenesis of RV dysfunction in pulm**

Mark T Waddingham (National Cerebral and Cardiovascular Center, Japan)

P06-4 **SM22α-Cre provides the different roles of ERK2 in angiotensin II-induced cardiovascular hypertrophy**

Kazuki Kagami (Department of Cardiology, National Defense Medical College, Japan)

P06-5 **The role of hypoxia signaling in the cardioprotective effect of SGLT2 inhibitors**

Tatsuyuki Sato (Department of Cardiovascular Medicine, The University of Tokyo, Graduate School of Medicine, Japan)

P06-6 **Mitochondrial protein acetylation as a pathology of heart failure with preserved ejection fraction**

Toshihiro Yamada (Department of Cardiovascular Medicine, Kumamoto University, Japan)

P06-7 **Natural extracts from Oitadori suppresses MI-induced the development of cardiac hypertrophy**

Tatsuya Maekawa (Division of Molecular Medicine, School of Pharmaceutical Sciences, University of Shizuoka, Japan)

Poster Presentation

Cardiomyopathies/ Remodeling

P07-1 **Ubiquitin E3 ligase ITCH attenuates cardiac hypertrophy by regulating the Wnt signaling pathway**

Jun Goto (Department of Cardiology, Pulmonology, and Nephrology, Yamagata University School of Medicine, Japan)

P07-2 **Y-box binding protein 1 bound to protein arginine methyltransferase 5 and was required to cardiomyoc**

Minori Sobukawa (Division of Molecular Medicine, School of Pharmaceutical Sciences, University of Shizuoka, Japan)

P07-3 **Analysis of a novel p300 binding protein in the regulation of cardiomyocyte hypertrophy**

Yusaku Matsushita (Division of Molecular Medicine, University of Shizuoka, Japan)

P07-4 **The treatment of Lmna-associated DCM with AAV improved the prognosis in our mouse model**

Yu Fujiwara (Cardiovascular Medicine, Nara Medical University, Japan)

P07-5 **Physiological glucagon protects heart against epinephrine surge via suppression of phenylethanolamin**

Kazuyuki Nishimura (Department of Cardiology, Nagoya University Graduate School of Medicine, Japan)

P07-6 **Human epididymis protein 4 predicts progressive fibrosis and adverse cardiovascular events in patien**

Masahiro Yamamoto (Department of Cardiovascular Medicine, Kumamoto University, Japan)

Poster Presentation

Arrhythmia

P08-1 **Detecting fibrotic remodeling of epicardial adipose tissue in patients with atrial fibrillation**

Yumi Ishii (Department of Cardiology and Clinical Examination, Oita University Faculty of Medicine, Japan)

P08-2 **Atrium specific Pitx2c overexpression impaired sinus node function and increased atrial arrythmia**

Shunsuke Baba (Department of Cell Physiology, Jikei University School of Medicine, Japan／Department of Pediatrics, Jikei University School of Medicine, Japan)

P08-3 **Mitochondrial calcium uptake compensate calcium dysregulation to mitigate ventricular arrhythmia**

Hikaru Hagiwara (Department of Cardiovascular Medicine, Hokkaido University, Japan)

P08-4 **Inhibition of late sodium current attenuates prolonged action potential durations in CACNA1C-E1115K**

Asami Kashiwa (Department of Cardiovascular Medicine, Kyoto University, Japan)

P08-5 **A mutation in the RSRSP stretch of Rbm20 causes atrial fibrillation in mice**

Kensuke Ihara (Department of Bio-informational Pharmacology, Medical Research Institute, Tokyo Medical and Dental University, Japan)

P08-6 **Preclinical proof-of-concept of antisense-mediated transcript knockdown therapy in calmodulinopathy**

Yuta Yamamoto (Department of Bioscience and Genetics, National Cerebral and Cardiovascular Center, Japan／Department of Cardiovascular Medicine, Kyoto University, Japan)

P08-7 **Intracellular Calcium dynamics during ventricular fibrillation in Langendorff-perfused rat heart**

Yuma Morishita (Department of Pathology and Cell Regulation, Kyoto Prefectural University of Medicine, Graduate School of Medical Science, Japan／Department of Pediatrics, Kyoto Prefectural University of Medicine, Graduate School of Medical Science, Japan)