【JVBMO, AAVBM】List of Accepted Abstracts

9/11/2025

SESSION	System No,	Presentation Number	Title	Day	Time	Venue
JVBMO - SESSION 1 **Young Investigator Award** (YIA)	jvbmo002-00030	YIA-1	DNase II Plays a Protective Role in Atherogenesis by Suppressing TLR9-Mediated Inflammatory Signaling in Macrophages	11/1/2025 (Sat.)	8：50-10：30	Room 1
	jvbmo002-00038	YIA-2	Ninjurin1 in NG2+ cells promotes nerve regeneration and plays a crucial role in the recovery of injured bone marrow.			
	jvbmo002-00071	YIA-3	Immune Sensitization-Based Senolytic Strategy: A Novel Therapeutic Approach for Senolysis			
	jvbmo002-00079	YIA-4	A mechanistic study to clarify the aging control mechanism of angiotensin-converting enzyme 2			
	jvbmo002-00082	YIA-5	PAH-former: Transfer Learning for Efficient Discovery of Pulmonary Arterial Hypertension-Associated Genes			
	jvbmo002-00091	YIA-6	Extracellular vesicles secreted from cancer cells undergoing TGF-β-induced EMT impair vascular stability and promote metastasis by inducing EndoMT			
	jvbmo002-00093	YIA-7	Identification of a distal enhancer of prostaglandin E2 receptor EP4 essential for closure of the ductus arteriosus			
JVBMO - SESSION 2 **Oral 1 Disease**	jvbmo002-00024	O1-1	Notch Ligand Dll1 Accelerates Intimal Hyperplasia by Regulating Inflammatory and Proliferative Responses in Injured Arteries	11/1/2025 (Sat.)	9：00-10：50	Room 2
	jvbmo002-00056	O1-2	TRPV Channel-Mediated Signaling Contributes to Histamine-Induced Vascular Hyperpermeability in Allergic Inflammation			
	jvbmo002-00033	O1-3	Drp1-mediated mitochondrial fission protects macrophages from mtDNA/ZBP1-mediated inflammation and inhibits post-infarct cardiac remodeling			
	jvbmo002-00040	O1-4	Vascular endothelial cell senescence as a key mechanism of heart failure pathogenesis			
	jvbmo002-00048	O1-5	The Impact of Carbon Nanotube Exposure on Atherosclerosis			
	jvbmo002-00078	O1-6	Identification of a novel kinase regulating endothelial-to-mesenchymal transition in a severe rat model of pulmonary hypertension			
	jvbmo002-00025	O1-7	β-III tubulin identifies anti-fibrotic state of pericytes in pulmonary fibrosis			
	jvbmo002-00057	O1-8	Deficiency of Regnase-1 in CD4+ helper T cells is associated with the development of pulmonary hypertension			
	jvbmo002-00064	O1-9	Tumorigenic changes of mast cells in mice with Lewis lung carcinoma			
	jvbmo002-00031	O1-10	Human disease modeling of von Hippel-Lindau syndrome from induced pluripotent stem cells			
JVBMO - SESSION 3 **Oral 2 Cell biology**	jvbmo002-00036	O2-1	VE-PTP controls a fluid shear stress set point that governs cell morphological responses through Tie-2	11/1/2025 (Sat.)	10:35-11:55	Room 1
	jvbmo002-00067	O2-2	Shear stress induced by blood flow maintains endothelial barrier function by enhancing Rap1 small GTPase activity			
	jvbmo002-00061	O2-3	Regulatory mechanism of postnatal development of mouse cardiac lymphatic vessels			
	jvbmo002-00035	O2-4	The role of subepidermal capillaries in epidermal formation through the positioning of NG2+ pericytes and their disruption with age			
	jvbmo002-00090	O2-5	Perivascular fibroblasts give rise to pericytes in response to pericyte ablation in adult zebrafish			
	jvbmo002-00092	O2-6	Elucidating the roles of partial endothelial-mesenchymal transition (EndoMT) in the stepwise progression of EndoMT			
	jvbmo002-00094	O2-7	The role of angiogenesis in pericardial adhesion formation.			

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JVBMO - SESSION 7 **Oral 3 Technology/ Drug discovery**	jvbmo002-00065	O3-1	Organ-Specific Stress Response Networks in Vascular Endothelial Cells Under Aging and Metabolic Stress	11/2/2025 (Sun.)	13：30-15：00	Room 2
	jvbmo002-00070	O3-2	Age-related impairment of FoxO-mediated stress tolerance in endothelial cells contributes to microvessel decreases			
	jvbmo002-00062	O3-3	Abnormal Vascular Remodeling in a Hypomyelination Mouse Model			
	jvbmo002-00063	O3-4	Modeling Vascular Invasion of Tumor Cell Clusters Using a Tumor-Microvessel-on-a-Chip System			
	jvbmo002-00049	O3-5	Analysis of Peripheral Lymphatic Function Using Intravital Imaging			
	jvbmo002-00084	O3-6	Three-dimensional analysis of the heart visualizes the angiogenic response mediated by myeloid cells after pressure loading			
	jvbmo002-00072	O3-7	Targeting SAAM-1 via Senolytic Vaccination as a Novel Therapeutic Strategy for Cardiovascular Disease			
	jvbmo002-00027	O3-8	Claudin-5-binding molecules transiently open the blood–brain barrier and deliver drugs to the brain			
Joint SESSION - Poster Presentation	jvbmo002-00023	P-1	Esaxerenone improves vascular endothelial dysfunction via SGK1 inhibition and Akt pathway activation in type 2 diabetic mice	11/1/2025 (Sat.)	17：00-18：30	Poster Session Room
	jvbmo002-00026	P-2	NG2+ pericytes support homeostasis of capillary-rich skeletal muscles			
	jvbmo002-00028	P-3	Ablation of neuron-glial antigen 2-expressing pericytes induces late-onset intestinal dysfunction			
	jvbmo002-00029	P-4	GPR176 regulates fibroblast metabolic adaptation and ferroptosis resistance			
	jvbmo002-00032	P-5	FOXO1-mediated phosphorylation of myosin light chain 2 promotes endothelial cell elongation and angiogenesis			
	jvbmo002-00037	P-6	Identification of Age-associated Pathogenic Factors in the Brain Vascular Endothelium of Down Syndrome			
	jvbmo002-00039	P-7	Inhibition of Notch Signaling Delta-like Ligand 1 Accelerates Angiotensin II-induced Aortic Aneurysm Formation in Apolipoprotein E-deficient Mice			
	jvbmo002-00041	P-8	Evaluation of the efficacy of Lysophosphatidic Acid for cerebral infarctionEvaluation of the efficacy of Lysophosphatidic Acid for cerebral infarction			
	jvbmo002-00042	P-9	The effect of glycan-related factor secreted specifically from senescent endothelial cells on endothelial function and age-related diseases			
	jvbmo002-00043	P-10	Substrate stiffness modulates KLF2 activation involving the pro-inflammatory phenotype of endothelial cells			
	jvbmo002-00044	P-11	CD69 mediates the development of abdominal aortic aneurysmCD69 mediates the development of abdominal aortic aneurysm			
	jvbmo002-00045	P-12	Toll-like receptor 4 promotes aortic remodeling associated with chronic kidney disease			
	jvbmo002-00046	P-13	Risk factors of arteriovenous shunt failure in diabetic patients: transcriptome analysis of human vein samples			
	jvbmo002-00047	P-14	Role of endothelial cells on chemotherapy resistance of metastatic breast cancer cells in lung			
	jvbmo002-00050	P-15	Blockade of Notch ligand Jagged2 induces atherosclerotic plaque vulnerability			
	jvbmo002-00051	P-16	Quantitative analysis of fibroblast and pericyte influence on three-dimensional angiogenic morphology features			
	jvbmo002-00052	P-17	Endothelial C3G–Rap1–Integrin β1 Signaling Is Essential for Alveolar Vascular Development			
	jvbmo002-00053	P-18	Human disease modeling of von Hippel-Lindau syndrome from induced pluripotent stem cells			

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Joint SESSION - Poster Presentation	jvbmo002-00058	P-19	Temporal Dynamics and Cellular Responses of Microvessel Model Under Pulsatile Pressure	11/1/2025 (Sat.)	17：00-18：30	Poster Session Room
	jvbmo002-00059	P-20	A mesenchymal cell subset marked by platelet-derived growth factor receptor α serves as a precursor of mural cells in zebrafish			
	jvbmo002-00060	P-21	Observation of Microcirculation in the Nailfold and Tongue of a Child with a History of Chronic Rhinitis and Healthy Siblings and Parent: A Case Report			
	jvbmo002-00066	P-22	Organ-Specific Endothelial Differentiation in the Lung: The Rap1–Integrin β1 Axis Promotes aCap Formation			
	jvbmo002-00068	P-23	Temporal Analysis of Liver Vascular Development at Single-Cell Resolution			
	jvbmo002-00069	P-24	Visualization of vasculature in mouse hypothalamus			
	jvbmo002-00073	P-25	Study of cell-type specific tubulin carboxypeptidase use under metabolic stress reveals VASH1 as key regulator of detyrosination in endothelial cells			
	jvbmo002-00074	P-26	Arid5a contributes to PH pathogenesis by inducing IL-6 expression			
	jvbmo002-00075	P-27	A novel variant of ZC3H12A in pulmonary arterial hypertension			
	jvbmo002-00076	P-28	18-hydroxy-5Z,8Z,11Z,14Z,16E-eicosapentaenoic acid attenuates vascular hyperpermeability by inducing vasoconstriction			
	jvbmo002-00077	P-29	Evaluation of Culture Conditions for a 3D In Vitro Tumor–Microvessel Model to Study Vascular Invasion by Tumor Cell Clusters			
	jvbmo002-00081	P-30	JAGGED-1 STIMULATED PERICYTE- DERIVED EXOSOMES ENHANCE ANGIOGENESIS AND ENDOTHELIAL CELL PROLIFERATION			
	jvbmo002-00083	P-31	Analysis of the tumor metastasis suppression mechanism by the effects of beta-blockers on vascular endothelial cells			
	jvbmo002-00085	P-32	Development of a COVID-19-derived epitope-based vaccine targeting hypertension			
	jvbmo002-00089	P-33	Elucidating the role of the signal transduction molecules in lymphatic endothelial cells			
	jvbmo002-00101	P-34	Investigation of the transcriptional regulation of the mouse Ninjurin1 gene by SP1			
	jvbmo002-00103	P-35	CCR4 Deletion Attenuates Abdominal Aortic Aneurysm by Modulating Adaptive Immunity and Aortic Remodeling			
	jvbmo002-00096	P-36	FGF12 Induces Aberrant Mechanosignaling in Aortic Smooth Muscle Cells During Thoracic Aortic Aneurysm Formation in Marfan Syndrome Mice			
	jvbmo002-00099	P-37	PTP4A1 alleviates AngII-induced aortic aneurysmal lesions by regulating immature mural neovascularisation			
	jvbmo002-00100	P-38	Dll4/Notch Signaling: Key to Blood-CNS Barrier Integrity and Function			
	jvbmo002-00102	P-39	Stem Cell Factor/c-KIT Signaling Regulates Pulmonary Arterial Smooth Muscle Cell Glycolysis and Promotes Pulmonary Arterial Hypertension in Mice			
	jvbmo002-00105	P-40	In Vivo Real-Time Analysis of Tumor Angiogenesis and Therapeutic Efficacy Using Advanced Intravital Microscopy Platforms			
	jvbmo002-00106	P-41	A Potential Rejuvenation Factor C Improves Metabolic Dysfunctions and Mitigates Atherosclerosis in Ldlr-/- Mice			
	jvbmo002-00107	P-42	Deciphering Mechanotransduction-Driven Organelle Remodeling in Phenotypic Switching of Vascular Smooth Muscle Cells			
	jvbmo002-00108	P-43	Synergistic Anti-Obesity and Metabolic Effects of Momordica charantia and Fermented Grains: Implications for Vascular Health			
	jvbmo002-00110	P-44	Activation of the PI3K-Akt-E2F Axis by UCB-EVs Enhances Neurovascular Regeneration in Diabetic ED			
	jvbmo002-00111	P-45	Electrical Stimulation Promotes Neurovascular Regeneration and Erectile Function Recovery in Diabetic ED			
	jvbmo002-00112	P-46	Lutein inhibits inflammasome priming in macrophages through redox-associated mechanisms			