

Abstract Number	YIS/ ESR	Poster Number	Presenter	Presentation Title
Angiogenesis/ Lymphangiogenesis/ Microvascular Remodeling/ Injury & Repair				
10001		P1	Suthiluk Patumraj	Tetrahydrocurcumin induced tumor vascular normalization via inhibition of vascular endothelial growth factor expression in cervical cancer xenografts in nude mice
10014	ESR	P2	Maria J.C. Machado	VEGF knockdown in muscle improves recovery of blood flow after ischaemia
10020		P3	Yuan Wang	Cyanidin attenuates tumor chemotherapy-induced neurotoxicity via inhibition of ROS-mediated DNA damage and apoptosis in PC12 cells
10022		P4	Hui Yuan	Minimally invasive surgery joint local cooling lavage protects rats brain from ICH-induced inflammation injury and apoptosis
10025		P5	Hideki Amano	Microsomal prostaglandin E synthase-1 up-regulates COX-2 derived PGE2 in endothelial cell under hypoxia condition in mouse ischemic hind limb model
10033		P6	Jaeryung Kim	The role of limbal lymphatics in corneal fluid homeostasis and proper pathogen clearance
10038		P7	Hiroimi Matsuda	Role of TP signaling in enhancement of lymphangiogenesis in diaphragms during endotoxin induced peritonitis in mice
10052		P8	Suthiluk Patumraj	Increased mouse mesenchymal stem cells homing and neovascularization in LPS-induced inflammation in aged rats after exercise training
10062		P9	Noriko Iida	Mechanistic effects of spinal cord injury on splanchnic vascular functions and roles of regenerative medicine
10074		P10	Martina Vranova	The role of interleukin-7 in lymphatic vessel function and its therapeutic potential for the treatment of lymphedema and chronic skin inflammation
10091		P11	Liqun Wang	Glycation of vitronectin inhibits VEGF-induced angiogenesis by uncoupling VEGF receptor-2-alpha v beta3 integrin cross-talk
10099		P12	Supakanda Sukpat	Pre-treatment effects of low-dose simvastatin on wound healing in diabetic mice
10141		P13	Sachiko Sekiya	Host vascular invasion within newly induced glomeruli in engineered renal tissues
10147		P14	Sang Heon Suh	RhoJ is an effective and selective target of antiangiogenic cancer therapy
10160		P15	Weiwei Xiang	Neocollateral formation supplements collateral remodeling after acute arteriolar occlusion in the chick chorioallantoic membrane
10209		P16	Ryosuke Murai	The effects of cell arrangement on vessel diameter in a microfluidic angiogenesis model
10210		P17	Nobuyuki Nishizawa	Role of microsomal prostaglandin E synthase (mPGES)-1 in hepatic ischemia/reperfusion injury
10217		P18	Il-Kug Kim	Notch pathway targets proangiogenic regulator Sox17 to restrict angiogenesis
10222		P19	Masahiko Nakamura	Angiogenesis and lymphangiogenesis in MALT lymphoma in stomach, liver: Significance of VASH2
10235	ESR	P20	Sara S. Nunes de Vasconcelos	Arterial-venous identity specification in pre-vascularized engineered implants requires perivascular cell recruitment and is impaired in diabetes

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10258		P21	Bruce Klitzman	Mass transport from bloodstream to biosensors: Impact of convection and diffusion
10267		P22	Manjusha Dixit	FRG1 and its interacting partner EEF1A: Putative angiogenic regulators
10278		P23	Muhammad Aslam	Differential effects of cAMP/PKA and cAMP/Epac signalling on in vitro angiogenesis: Role of Rho GTPases
50001		P24	David O. Bates	Physiological role of anti-angiogenic VEGF isoforms
50003	YIS	P25	Nikita Ved	VEGF-A ₁₆₅ b ameliorates vascular dysfunction in diabetic retinopathy
50005		P26	Yu-Hui Qin	Effects of shuangdan mingmu capsule on the expression of retinal VEGF and VEGFR protein activity in rats with diabetic retinopathy
<i>Atherosclerosis/ Thrombosis/ Platelets</i>				
10068		P27	Yonggang Xu	The clinical efficacy and immunomodulatory mechanism of Yi Qi Tong Yang soup treating chronic immune thrombocytopenia
10113		P28	Hajime Maruyama	Laser-induced thrombus formation in angiotensin II type 1 and type 2 receptor-knockout murine brain microvasculature observed on intravital fluorescence microscopy
10202		P29	Quan Li	Inhibitory effect of caffeic acid on ADP-induced thrombus formation and platelet activation involves mitogen-activated protein kinases
10277	ESR	P30	Muhammad Aslam	Uridine triphosphates analogues as inhibitors of platelet aggregation
<i>Cancer Metabolism and Microcirculation</i>				
10018		P31	Xiao-yan Fu	Induction of DNA damage-mediated cell cycle arrest in human glioma cells by caudatin, a natural cytostatic reagent
10024		P32	Amporn Jariyapongskul	Monoolein suppresses tumor growth and angiogenesis in human cervical cancer xenografts in nude mice
10100		P33	Takanori Kawashima	Arctigenin, an antiausterity antitumor agent, increases intra-tumor blood circulation through vascular re-modeling in vivo
10146		P34	Toshiki Watanabe	Acanthus ebracteatus Vahl could inhibit tumor growth and tumor angiogenesis associated with inhibition of hypoxia-inducible factor-1 regulatory pathway in human cervical carcinoma cell implanted nude mice
10166		P35	Kenta Murata	Arctigenin enhances the chemosensitivity to chemotherapeutic agents through microcirculatory changes
10186		P36	Gerald A. Meininger	Mechanical properties of human bone marrow endothelial cells and their adhesive interaction with breast cancer cells measured by atomic force microscopy
10187	ESR	P37	Gloria Allocca	The importance of the perivascular niche in the early stage of breast cancer bone colonisation
10195		P38	Hitoshi Endo	LKB1/AMPK regulates autophagy-mediated MMP-9 expression to promote cancer cell development during microenvironmental stress
<i>Cell Signaling: Proteins, Pathways, and Mechanisms</i>				
10019		P39	Kun Wang	Curcumin antagonizes beta-amyloid-induced neurotoxicity in PC12 cells, from rational design to signaling pathways

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10115	ESR	P40	Ed van Bavel	Gene expression analysis in small arteries of spontaneously hypertensive rats: Evidence for ER stress
10214		P41	Hitoshi Tsugawa	Repression of autophagy in gastric epithelial cells infected with H. pylori induces CD44 expression through the accumulation of CagA oncoprotein
10223		P42	Linlin Lu	Chemoprevention of astragalus in lung adenocarcinoma
10250		P43	Xiao-yi Yang	Caudatin induces caspase-dependent apoptosis in human glomina cells with involvement of mitochondrial dysfunction
Cerebral Circulation				
10021		P44	Ming-feng Yang	Enhanced neuroprotective effects against ischemic brain injury by intranasal delivery of granulocyte colony-stimulating factor in rats
10083		P45	Wei Li	Pre-reperfusion of curcumin could protect blood-brain barrier against I/R Injury associated with Nrf2, NF-kappa-B, and caspase-3 expressions in Transient MCAO Rat Model
10085	YIS	P46	Sheepsumon Viboolvorakul	Exercise training ameliorates microvascular deterioration and VEGF signaling downregulation in aging rat brain
10105		P47	Ed Van Bavel	Interstitial transport in the rodent brain
10154		P48	Khaled S. Abd-Elrahman	Abnormal ROK activity contributes to the dysfunctional myogenic response of cerebral arteries of type 2 diabetic Goto-Kakizaki rats
10170		P49	Mami Ishikawa	Microcirculatory disturbance after subarachnoid hemorrhage
10196		P50	Miyuki Unekawa	Vasoreactivity of intracortical penetrating arteries of the cerebral cortex in response to cortical spreading depression and hypercapnia in anesthetized mice
10197		P51	Yutaka Tomita	Dynamics of red blood cells in intraparenchymal capillaries and arterial diameter during cortical spreading depression observed with high-speed camera confocal fluorescence microscope in anesthetized mice
10205		P52	Maria Sancho	Implications of alphaV-beta3 integrin signalling in the regulation of Ca ²⁺ waves and myogenic tone in cerebral arteries
10207		P53	Maria Sancho	Smooth muscle/endothelial K _{IR} channels tune electrical communication in cerebral arteries
10215		P54	Fabrice Dabertrand	Novel intact ex vivo preparation of pressurized intracerebral arterioles and capillaries reveals conducted upstream vasodilation following application of neurovascular coupling agents onto capillaries
10216		P55	Thomas A. Longden	Retrograde regenerative electrical signaling through capillary K _{IR} channels regulates blood flow into the brain
10238		P56	Shaun L. Sandow	Focal cerebral ischemic stroke results in endothelial BK _{Ca} expression and altered function, with no change in TRPV4 function, in middle cerebral artery
10246		P57	Xiao-yi Yang	Intranasal delivery of calcitonin gene-related peptide enhances arterial NO-cGMP pathway and reduces cerebral vasospasm after experimental subarachnoid hemorrhage
10261		P58	Kazuto Masamoto	Three-dimensional microcirculation imaging with fluorescence red blood cells in anesthetized rat cerebral cortex
50000		P59	Naihong Chen	Preliminary study on mitophagy and its role after ischemic injury in rats

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<i>Ion Channels and Transporters</i>				
10098		P60	Hon-Chi Lee	Activation of the small-conductance calcium-activated potassium (SK) channels in freshly isolated coronary arterial endothelial cells by shear stress
10137		P61	George C. Wellman	TRPV1-mediated Ca ²⁺ influx and constriction of the meningeal vasculature
10159	YIS	P62	Jennifer B. Stott	Complex signalling pathways determine the role of Kv7 channels in relaxations of the rat mesenteric artery
10213		P63	Stephanie E. Lunn	Activators of KCa channels enhance endothelium-dependent modulation of nerve-evoked constriction in rat mesenteric arteries
10219		P64	Ran Wei	Investigation of the functional role of TRPC3 and TRPV4 in endothelium-dependent modulation of tone in rat mesenteric arteries
<i>Coronary Circulation</i>				
10082		P65	Wei Xiong	Micro channel array flow analyze research of elderly hypertension erythrocyte hemorheology
10128		P66	Dawu Zhang	The effect of panax notoginseng component eluting stent on intimal hyperplasia in porcine coronary artery
10143		P67	Toyotaka Yada	H ₂ O ₂ -induced coronary collateral arterioles compensates NO-mediated small arteriolar endothelial dysfunction during coronary occlusion in diabetic dogs in vivo
<i>Endothelial Cell Biology</i>				
10034		P68	Fabiola Sanchez	S-nitrosylation of VASP mediates the increase in microvascular permeability in response to pro-inflammatory agents
10037		P69	Kashish Manchanda	Myeloperoxidase modulates endothelial glycocalyx and influences vascular properties
10104		P70	Yoshiko Kawai	In vitro and in vivo confirmation of new concept of pulmonary blood flow-mediated CO ₂ gas excretion in the lungs
<i>Gasbiology: O₂, NO, CO, H₂S, and Other Small Size Mediators</i>				
10087		P71	Jay S. Naik	Hydrogen sulfide-induced vasodilation involves activation of endothelial TRPV4 and BK channels in small mesenteric arteries
10183		P72	Takayuki Morikawa	Deletion of heme oxygenase-2 exacerbates cerebral energy metabolism during acute focal brain ischemia
10189		P73	Naoharu Takano	Hypoxia-inducible factors induce cystathionine β-synthase gene expression under hypoxia
50007		P74	Shinichi Goto	Deletion of heme oxygenase-2 increases baseline microvascular flow in the murine cerebral cortex
<i>Imaging</i>				
10013		P75	Seiji Itano	Possible implication of xanthine oxidase activation on the pathogenesis diabetic nephropathy
10016		P76	Anna I. Ershova	Endothelial dysfunction as a marker of the acute pancreatitis severity
10108		P77	Angela C. Shore	Preliminary results from a novel implementation of a non-invasive laser speckle imaging (LSI) technique during free-flap breast reconstruction

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10132		P78	Fredrik Iredahl	Comparison of tissue viability imaging and laser speckle contrast imaging for assessment of microvascular function
10133		P79	Max Bergkvist	Assessment of venous stasis in the skin using polarization spectroscopy imaging
10163		P80	Qing Ha	Nanoscale nonlinear elasticity in blood vessels of living mammals studied by atomic force microscopy
10190		P81	Minoru Satoh	Visualization of in vivo renin activity and its application to study the pathogenetic mechanisms of diabetic nephropathy
10199		P82	Tatevik Hakobyan	Quantification of myocardial blood flow in mice using contrast echocardiography
10225		P83	Norio Hasegawa	Microaneurysms in deep capillary plexus layer are associated with diabetic macular edema
10227		P84	John Allen	Combined intra-operative thermal and laser speckle contrast imaging to assess bowel perfusion: A case study
10239		P85	Takeshi Matsumoto	Bone and microvascular imaging by k-edge subtraction μ CT using synchrotron lights with zirconia contrast medium
10247		P86	Noriaki Takase	Enlargement of foveal avascular zone in diabetic patients evaluated by En Face OCT angiography
10263		P87	Maria Siebes	Three-dimensional characterization of microvessels in whole organs and small animals co-localized with labeled biomarkers by a fluorescent imaging cryomicrotome system (3D-FICS)
10268	YIS	P88	Megumi Shiota	Large-area surface-enhanced Raman spectroscopy imaging as a novel method to visualize alterations in small molecular metabolites in ischemic brain tissues
<i>Inflammation/ Leukocyte-endothelium Interactions/ Immune Cell Trafficking</i>				
10026		P89	Koji Maruta	Effect of nicotine on DSS-induced murine colitis in point of adhesion molecules on the microvascular endothelium
10039		P90	Michael J. Hickey	Monocytes interact with neutrophils in the glomerular microcirculation to promote acute glomerulonephritis
10080		P91	Gaynor A. Aguilar	Nitric oxide activates ICAM-1 on the endothelium at the onset of the inflammatory response
10122		P92	Vasilios Morikis	Atrial natriuretic peptide (ANP) down-regulates neutrophil recruitment on inflamed endothelium by reducing PMN deformability, while adhesive function is maintained
10208		P93	Rebecca E. Haddock	Immune cell derived NGF links dysfunction of the immune and sympathetic nervous systems in obesity-related hypertension
10248		P94	Ken Kojo	Leukotriene B4 (LTB4) receptor type 1 (BLT1) attenuates acetaminophen-induced liver injury through inhibiting hepatic neutrophil activation
10251	ESR	P95	Connie H.Y. Wong	Immune suppression after stroke
10257		P96	Elena Y. Senchenkova	Platelet-lymphocyte crosstalk: A key microvascular response to inflammation
10269		P97	Akira Ushiyama	The administration of antioxidants reduced the leukocytes-endothelial interaction induced by ultraviolet B irradiation in cutaneous microvasculature

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<i>Instrumentation, Methodology, and Experimental Models</i>				
10023		P98	Sergey Podtaev	Wavelet-analysis of skin temperature oscillations for revealing endothelial dysfunction in patients with type 2 diabetes
10028		P99	Sergey Podtaev	Evaluation of endothelial dysfunction in patients with metabolic syndrome based on the wavelet-analysis of skin temperature oscillations
10102		P100	Lubo Ma	Different limited femoral artery and balloon dilatation to establish the diabetes chronic lower limb ischemia rat model
10110		P101	Kanae Kadokura	A cell culture microdevice with a continuous oxygen gradient for microvascular research in vitro
10114		P102	Jiangang Liu	The protective effect of panax quinquefoliu saponin and panax pseudo-ginseng components on gastric mucosal lesions induced by dual antiplatelet drugs in rat with myocardial infarction
10116		P103	Yoshinao Nagashima	Evaluation of laser speckle flowgraphy: Development of novel skin blood flow measurement technique
10120		P104	Adrian M. Sackheim	Automated methodology for ex vivo measurement of vascular permeability
10155		P105	Keitaro Oda	Quantification and imaging of regional vascular permeability and partial pressure of oxygen in tumor microcirculation
10229		P106	John Allen	Clinical microvascular imaging: A review of techniques
10230		P107	John Allen	Photoplethysmography and its application to clinical physiological measurement: An overview
10231		P108	John Allen	Utility of combined fluorescence spectroscopy and tissue oxygen saturation measurements in systemic sclerosis: A pilot study
10233		P109	John Allen	Photoplethysmography assessment of endothelial function in patients with Raynaud's phenomenon and systemic sclerosis: A pilot study
10000		P110	Dong-min Shi	A proposed integral diagnosis system with D-dimer for diagnosis of non-overt and overt disseminated intravascular coagulation
<i>Lymphatic and Venular Function</i>				
10172		P111	Andrea N. Trujillo	Pharmacological modulators of intracellular calcium alter mesenteric lymphatic contractions
10176		P112	Walter L. Murfee	Estimation of pressure drop required for lymph flow through initial collecting lymphatics
10012		P113	Markos Klonizakis	Supervised exercise training as an adjunct therapy for venous ulceration: Protocol for a randomised controlled feasibility trial in a National Healthcare Service
<i>Metabolomics and Disease</i>				
10060		P114	Toshiki Takenouchi	Hypothermic intervention causes reciprocal changes in acetylated metabolites in neonatal hypoxia-ischemia
10073		P115	Tsuneaki Omae	Effects of cigarette smoking on retinal circulation in patients with type 2 diabetes

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Microvascular Cell Signaling Pathways				
10040		P116	William F. Jackson	Which inward rectifier K ⁺ channels contribute to resting tone and K ⁺ -induced dilation of skeletal muscle resistance arteries in mice?
10089		P117	Andrew P. Braun	The alpha1-adrenergic agonists phenylephrine and noradrenaline enhance the inhibition of myogenic tone by endothelium-dependent vasodilators in rat cremaster resistance arteries
10178		P118	Gerald A. Meininger	N-cadherin, a novel mechano-sensor in small cerebral arteries
10203		P119	Lars J. Jensen	G-protein mediated signaling pathways in myogenic responsiveness of mouse mesenteric artery
10234	ESR	P120	Daniel Collier	Extracellular histones activate local and propagating endothelial calcium signals
50002		P121	Weirong Wang	Histone deacetylase SIRT1 regulates autophagy of vascular adventitial fibroblasts through AKT/mTOR signaling pathway
Microvascular Flow Regulation/ Oxygen Delivery/ Networks				
10057		P122	Young-Seok Song	The role of glial cells in the regulation of retinal microcirculation in response to modulations in systemic oxygen tension
10076		P123	Van N.P. Tran	Skin microvascular assessments predict outcome of patients treated with extra-corporeal membrane oxygenation (ECMO)
10086	ESR	P124	Anshuman Ghosh	Relationship between microvascular blood flow and angiogenic factors in pre-eclampsia
10109		P125	Hirofumi Hino	Thrombomodulin improves maternal and fetal outcomes in an experimental pre-eclampsia rat model
10125		P126	Liv K. Sundheim	Skin trauma induces early deep vascular plexus hyperemia, while superficial papillary nutritive perfusion remains unchanged
10221		P127	Bettina Reglin	Metabolic long-term control of microvessel diameters: Roles of oxygen sensitivity, sensor localization and vasodilator or vasoconstrictor signalling
10259		P128	Bianca Nitzsche	Rescue of gap junction function restores blood flow in chicken chorioallantoic membrane vessel networks
10279		P129	Christopher G. Ellis	Assessing the microvascular response to insulin in rat skeletal muscle using intravital video microscopy
Microvascular Mechanics/ Microvascular Modeling/ Hemodynamics/ Rheology				
10064		P130	Qing Pan	Is the time lag of pressure pulses in microcirculation associated to wave propagation?: A model study
10066		P131	Ruofan Wang	Adaptive mathematical modeling of pulsatile shear stress-mediated nitric oxide-vascular regulation
10149		P132	Cheng-Hsi Chuang	Diffusion of red blood cells in Poiseuille flow
10211		P133	Timothy V. Murphy	Increased arterial myogenic tone in an in vitro model of vascular insulin resistance
10228		P134	John Allen	Quantification of geometrical differences between microangiopathy capillaroscopy images and controls

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10242	ESR	P135	Maria Jelinic	Continuous serelaxin infusion alters circumferential wall stiffness but not myogenic tone of mesenteric resistance arteries in spontaneously hypertensive rats
10243		P136	Riha Shimizu	A novel parameter reflecting rheology and activity of leukocytes in ex vivo microvascular model
10260		P137	Norihito Watanabe	Scanning electron microscopic studies on morphological abnormalities of erythrocytes in alcoholic liver diseases
Microvascular Pathophysiology-pharmacology				
10030		P138	Amporn Jariyapongskul	Effects of alpha-mangostin on ocular hypoperfusion and blood retinal barrier leakage in type 2 diabetic rats
10046		P139	Supang Maneesri-le Grand	Effects of acute and chronic paracetamol treatments on the alteration of blood brain barrier integrity in the cortical spreading depression migraine animal model
10047		P140	Waranurin Yisarakun	Chronic APAP treatment increases alteration of cultured brain endothelial cell line
10096		P141	Shinichi Otani	Somatostatin elicits dilation of isolated porcine retinal arterioles
10107		P142	Yoke Keong Yong	Active fraction from Bixa orellana leave extract attenuates increased endothelial permeability induced by bradykinin in vitro
10118		P143	Nuria Villalba	Arginase inhibition improves endothelial dysfunction in the systemic microvasculature following TBI
10119		P144	Hiroshi Nakamoto	Diabetes and glomerular filtration barrier
10130		P145	Chris R. Triggle	Acute treatment with metformin prevents high glucose-induced endothelial dysfunction
10134		P146	Fredrik Iredahl	Microvascular and metabolic responses in the skin during local and systemic hyperinsulinemia: A microdialysis study
10158		P147	Marianne Tare	Exposure to early life vitamin D deficiency has lifelong implications for vascular and renal function
10220		P148	Sarah A. Marshall	Enhanced vascular sensitivity to angiotensin II in the mesenteric artery of late-pregnant relaxin deficient mice
10266		P149	Masahiro Yasunaga	Development of CAST (Cancer Stromal Targeting) therapy
10273		P150	Sara R. Turner	Zipper-interacting protein kinase contributes to myogenic reactivity in the resistance microvasculature and hypercontractility in the SHR-model of essential hypertension
Neuron-glia-vasculature				
10088	YIS	P151	Cam Ha T. Tran	Vascular effects on astrocytes Ca ²⁺ dynamics in cerebral cortex
10090		P152	Shinji Ono	Evaluation of molecular mechanism of retinal neurovascular coupling using isolated porcine retinal arterioles
10135		P153	Masayo Koide	Dysfunction of neurovascular coupling in a mouse model of subarachnoid hemorrhage
10212		P154	Kazuto Masamoto	Spatiotemporal dynamics of cerebral blood flow during focal activation with optogenetic photostimulation to the cortical neurons and astrocytes

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<i>Oxidative Stress, Mitochondrial Metabolism and Redox</i>				
10017		P155	Liang-zhen Zhu	Suppression of high glucose-induced cell apoptosis in PC12 cells by DSePA through inhibition of ROS-mediated DNA damage and AKT inactivation
10065		P156	Hiromi Sakai	Transmembrane electron mediators to extract electron energies of RBC glycolysis for prolonged in vivo functional lifespan of an artificial oxygen carrier (Hb-Vesicles)
10124		P157	Nuria Villalba	Traumatic brain injury increases plasma and microvascular reactive oxygen species
10140		P158	Ke He	3, 4-dihydroxyl-phenyl lactic acid ameliorates cardiac reperfusion injury through restoring NADH dehydrogenase 1 alpha subunit 10
10173		P159	Yasoo Sugiura	Metabolic profiling of ischemic brains reveals multiple control points by cilostazol treatment
10175		P160	Zong-Yong Zhang	Carnosine attenuates early brain injury through its antioxidative and anti-apoptotic effects in a rat experimental subarachnoid hemorrhage model
10181		P161	Yasuo Ito	Effects of NMDA receptor antagonist memantine on NO production, hydroxyl radical metabolism and ischemic change of hippocampal CA1 during cerebral ischemia and reperfusion in mice
10193		P162	Yasuhiro Nishizaki	Ferritin derived oxidative stress is a risk for liver damage even within reference range in male
50006		P163	Takafumi Yoshioka	Cytathionine β synthase is required to maintain glutathione hydropersulfide, a novel antioxidant molecule, in the murine lens
50004		P164	Baoxue Yang	Ganoderma lucidum polysaccharide peptide ameliorates acute kidney injury by reducing the endoplasmic reticulum and the mitochondrial stress cognitive/emotional deficits
<i>Vascular Smooth Muscle Cells/ Pericytes</i>				
10200		P165	Lyudmyla Borysova	Comparative investigation of Ca^{2+} signalling and vasomotor responses in the ureteric and cremaster muscle microvessels <i>in situ</i>
10236		P166	Albert L. Gonzales	Pericytes exhibit asymmetric control at capillary bifurcations in the retinal vasculature
10272		P167	S.S. Wildman	A novel role for renal NMDA receptors: regulation of the renal microcirculation
<i>Peripheral Circulation</i>				
10070		P168	Shohei Miyazaki	Accuracy of small sized vessel flow measurements in 3D cine PC MRI with respiratory navigator gating
10152		P169	Melanie R. Wittwer	Skin microvascular function in women with peripartum anaemia
10168		P170	Takafumi Yoshioka	Inhibition of neuronal nitric oxide synthase attenuates flicker-induced increment of retinal blood flow in cats
10252		P171	Andrey Fedorovich	Microvascular angina and skin microcirculation
10253		P172	Elena Mordvinova	Microcirculatory disorders in patients with arterial hypertension and high and very high cardiovascular risk
10264		P173	Artur Bagdasaryan	Impact of actovegin on microcirculation in patients suffering chronic obliterating diseases of lower limb arteries

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<i>Permeability/ Fluid & Solute Exchange/ Glycocalyx</i>				
10031		P174	Dae Hyun Lee	Prolonged shear stress modifies the composition of the endothelial glycocalyx
10055		P175	Xiaohua Guo	Role of mDia1 and Src in vascular hyperpermeability induced by advanced glycation end products
10075		P176	Mean Ghim	Visualisation of small and large transport pores in cultured endothelium and their modification by different types of flow
10079		P177	Patricia N. Zamorano	Galectin 8 induce increased microvascular permeability via S-nitrosylation of p120 catenin: Role in breast cancer
10106		P178	Stephen G. Gray	Use of a novel bioreactor to investigate effects of haemodynamic stresses on endothelial permeability
10129		P179	Mack H. Wu	Endothelial focal adhesion kinase mediates microvascular hyperpermeability during ischemia/reperfusion injury
10150		P180	Hanae Kataoka	The effects on the endothelial glycocalyx layer and the microcirculatory parameters under septic condition in mice
10153		P181	Casper Hempel	Endothelial glycocalyx is lost in murine malaria infections and is associated with increased urokinase levels and downstream remodelling of the extracellular matrix
10244		P182	Binu Tharakan	Purinergic receptor P2X7 is a mediator of blood-brain barrier breakdown and microvascular hyperpermeability
10255		P183	Aleksandr Y. Gorshkov	Association microvascular endothelial glycocalyx with structural alterations of vessels in hypertension patients
<i>Stem Cells</i>				
10177		P184	Walter L. Murfee	Aged bone marrow-derived stem cells display increased pericyte fate in cultured microvascular networks
10280		P185	Anjali P. Kusumbe	Complex microenvironments consisting of multiple vessel types maintains hematopoietic stem cells
<i>Translational Research</i>				
10032		P186	Boyang Zhang	AngioChip: A biodegradable scaffold with built-in vasculature for tissue vascularization and direct surgical anastomosis
10077		P187	Kim M. Gooding	Does macular thickness vary in the early stages of diabetic retinopathy in type 2 diabetes?
10078		P188	Kim M. Gooding	Human, in vivo, microvascular actions of glucagon-like peptide-1 and its analogues in health, obesity and well-controlled type 2 diabetes
10198	YIS	P189	Saravana Ramasamy	Dynamics of angiogenesis and blood flow in mouse long bone
<i>Myogenic Tone</i>				
10180	ESR	P190	Pooneh Bagher	A physiological role for TRPV4 sparklets
<i>Late-breaking Abstract</i>				
-		P191	Stuart Egginton	Differential effect of chronic stimulation on angiogenesis and oxygen transport capacity in skeletal muscle