

January 01, 2018	<a href="#">Development and growth trends in angiotensin II-induced murine dissecting abdominal aortic aneurysms</a>	Abdominal aortic aneurysms are pathological dilations that can suddenly rupture, causing more than 15,000 deaths in the U.S. annually.
January 01, 2018	<a href="#">Impairment of an Endothelial NAD + -H 2 S Signaling Network Is a Reversible Cause of Vascular Aging</a>	A decline in capillary density and blood flow with age is a major cause of mortality and morbidity.
December 27, 2019	<a href="#">The pro-atherogenic response to disturbed blood flow is increased by a western diet, but not by old age</a>	Atherogenic remodeling often occurs at arterial locations with disturbed blood flow (i.e., low or oscillatory) and both aging and western diet (WD) in
December 14, 2019	<a href="#">In vivo characterization of doxycycline-mediated protection of aortic function and structure in a mouse model of Marfan syndrome-associated aortic aneurysm</a>	Aortic aneurysm is the most life-threatening complication in Marfan syndrome (MFS) patients.
May 01, 2019	<a href="#">Z-Ligustilide protects vascular endothelial cells from oxidative stress and rescues high fat diet-induced atherosclerosis by activating multiple NRF2 downstream genes</a>	Background and aims: Oxidative stress-induced endothelial dysfunction is considered to exert a vital role in the development of atherosclerotic corona
March 01, 2019	<a href="#">Mas receptor deficiency augments angiotensin II-induced atherosclerosis and aortic aneurysm ruptures in hypercholesterolemic male mice</a>	Clinical Relevance: Results from this study suggest a novel mode of intervening in the renin-angiotensin system to treat vascular diseases, namely, by
February 27, 2019	<a href="#">Fluid dynamics and forces in the HH25 avian embryonic outflow tract</a>	The embryonic outflow tract (OFT) eventually undergoes aorticopulmonary septation to form the aorta and pulmonary artery, and it is hypothesized that
February 01, 2019	<a href="#">Effects of low-dose oxygen ions and protons on cardiac function and structure in male C57BL/6J mice</a>	Purpose: Astronauts traveling beyond low-Earth orbit will be exposed to high linear-energy transfer charged particles.
February 01, 2019	<a href="#">Functionalized polymer microbubbles as new molecular ultrasound contrast agent to target P-selectin in thrombus</a>	Thrombotic diseases rarely cause symptoms until advanced stage and sudden death.
February 01, 2019	<a href="#">Recent strategies on targeted delivery of thrombolytics</a>	Thrombus formed in blood vessel is a progressive process, which would lead to life-threatening thrombotic diseases such as ischemic stroke.

February 01, 2019	<a href="#">Magnesium but not nicotinamide prevents vascular calcification in experimental uraemia</a>	Background. Optimal phosphate control is an unmet need in chronic kidney disease (CKD).
January 22, 2019	<a href="#">Endothelial signaling by neutrophil-released oncostatin M enhances P-selectin-dependent inflammation and thrombosis</a>	In the earliest phase of inflammation, histamine and other agonists rapidly mobilize P-selectin to the apical membranes of endothelial cells, where it
January 19, 2019	<a href="#">ROBO4 variants predispose individuals to bicuspid aortic valve and thoracic aortic aneurysm</a>	Bicuspid aortic valve (BAV) is a common congenital heart defect (population incidence, 1–2%) <sup>1–3</sup> that frequently presents with ascending aortic aneurysm
January 10, 2019	<a href="#">Implantation of VEGF-functionalized cell-free vascular grafts: regenerative and immunological response</a>	Recently, our group demonstrated that immobilized VEGF can capture flowing endothelial cells (ECs) from the blood in vitro and promote endothelialization and
January 01, 2019	<a href="#">Site-specific chelation therapy with EDTA-loaded albumin nanoparticles reverses arterial calcification in a rat model of chronic kidney disease</a>	Medial arterial calcification (MAC) is a common outcome in diabetes and chronic kidney disease (CKD).
January 01, 2019	<a href="#">Stimulation of Caveolin-1 Signaling Improves Arteriovenous Fistula Patency</a>	Objective—Arteriovenous fistulae (AVF) are the most common access created for hemodialysis; however, many AVF fail to mature and require repeated inte
January 01, 2019	<a href="#">Age-dependent characterization of the carotid and cerebral artery morphologies in a transgenic mouse model of sickle cell anemia using ultrasound and microcomputed tomography</a>	Children with sickle cell anemia have elevated stroke risks as well as other arterial complications, but morphological changes to large arteries are n
January 01, 2019	<a href="#">Aspirin pre-treatment modulates ozone-induced fetal growth restriction and alterations in uterine blood flow in rats</a>	Prenatal exposure to ozone has been linked to low birth weight in people and fetal growth restriction in rats.
January 01, 2019	<a href="#">Renal cystic disease in the Fbn1C1039G/+ Marfan mouse is associated with enhanced aortic aneurysm formation</a>	Marfan syndrome (MFS) is a connective tissue disorder caused by mutations in the fibrillin-1 gene (FBN1), resulting in aortic aneurysm formation and d

January 01, 2019	<a href="#">Fibroblast Growth Factor 21 Attenuates Vascular Calcification by Alleviating Endoplasmic Reticulum Stress Mediated Apoptosis in Rats</a>	Fibroblast growth factor 21 (FGF21), a hormone with multiple metabolic properties, has proven to be pleiotropic biological effects and may play pivota
December 24, 2018	<a href="#">MicroRNA-217 attenuates intima-media complex thickness of ascending aorta measured by ultrasound bio-microscopy and inhibits inflammation and lipid metabolism in atherosclerotic models of ApoE<sup>-/-</sup> mice</a>	Background: Little investigation was done to test the efficiency of microRNA-217 (miR-217) on atherosclerosis in vivo.
December 18, 2018	<a href="#">The effect of the heart rate lowering drug Ivabradine on hemodynamics in atherosclerotic mice</a>	The heart rate lowering drug Ivabradine was shown to improve cardiac outcome in patients with previous heart failure.
December 16, 2018	<a href="#">Alcohol Consumption in Combination with an Atherogenic Diet Increased Indices of Atherosclerosis in Apolipoprotein E/Low-Density Lipoprotein Receptor Double-Knockout Mice</a>	BACKGROUND Alcohol abuse and adherence to atherogenic diet (AD; a low-carbohydrate-high-protein diet) have been positively associated with cardiovascu
December 16, 2018	<a href="#">Natural killer cells induce neutrophil extracellular trap formation in venous thrombosis</a>	Summary.
December 01, 2018	<a href="#">The GLP-1 Analogs Liraglutide and Semaglutide Reduce Atherosclerosis in ApoE<sup>-/-</sup> and LDLr<sup>-/-</sup> Mice by a Mechanism That Includes Inflammatory Pathways</a>	The glucagon-like peptide-1 receptor agonists (GLP-1RAs) liraglutide and semaglutide reduce cardiovascular risk in type 2 diabetes patients.
December 01, 2018	<a href="#">Clarifying the relative impacts of vascular and nerve injury that culminate in erectile dysfunction in a pilot study using a rat model of prostate irradiation and a thrombopoietin mimetic</a>	PURPOSE: Radiation therapy (RT) offers an important and curative approach to treating prostate cancer but is associated with a high incidence of erect
December 01, 2018	<a href="#">Rosuvastatin stabilizes atherosclerotic plaques by reducing CD40L overexpression-induced downregulation of P4Hα1 in ApoE<sup>-/-</sup> mice</a>	Background Cluster of differentiation 40 ligand (CD40L) and rosuvastatin (RSV) affect atherosclerotic plaque stability, but little is known about thei
December 01, 2018	<a href="#">Brg1 trans-activates endothelium-derived colony stimulating factor to promote calcium chloride induced abdominal aortic aneurysm in mice</a>	Endothelial cell derived secretive factors play pivotal roles maintaining the homeostasis by influencing the behaviors of other cells.

November 13, 2018	<a href="#">Noninvasive in vivo Assessment of the Re-endothelialization Process Using Ultrasound Biomicroscopy in the Rat Carotid Artery Balloon Injury Model</a>	Objectives—Ultrasound biomicroscopy (UBM), or ultra high-frequency ultrasound, is a technique used to assess the anatomy of small research animals.
November 06, 2018	<a href="#">Statins Reduce Thoracic Aortic Aneurysm Growth in Marfan Syndrome Mice via Inhibition of the Ras-Induced ERK (Extracellular Signal-Regulated Kinase) Signaling Pathway</a>	Background Statins reduce aneurysm growth in mouse models of Marfan syndrome, although the mechanism is unknown.
November 01, 2018	<a href="#">Biodegradable and elastomeric vascular grafts enable vascular remodeling</a>	Implanted grafts, including vascular substitutes, inevitably experience remodeling by host cells.
September 07, 2018	<a href="#">Combining in vivo and in vitro biomechanical data reveals key roles of perivascular tethering in central artery function</a>	Considerable insight into effectors of cardiovascular function can be gleaned from controlled studies on mice, especially given the diverse models tha
September 01, 2018	<a href="#">Bone marrow-derived mononuclear cell seeded bioresorbable vascular graft improves acute graft patency by inhibiting thrombus formation via platelet adhesion</a>	Background: Acute thrombosis is a crucial cause of bioresorbable vascular graft (BVG) failure.
July 31, 2018	<a href="#">Fast Vessel Segmentation and Tracking in Ultra High-Frequency Ultrasound Images.</a>	Ultra High Frequency Ultrasound (UHFUS) enables the visualization of highly deformable small and medium vessels in the hand.
July 18, 2018	<a href="#">The Murine Dialysis Fistula Model Exhibits a Senescence Phenotype: Pathobiologic Mechanisms and Therapeutic Potential</a>	There is no therapy that promotes maturation and functionality of a dialysis arteriovenous fistula (AVF).
July 01, 2018	<a href="#">Inhibition of prolyl hydroxylase domain proteins selectively enhances venous thrombus neovascularisation</a>	BACKGROUND: Hypoxia within acute venous thrombi is thought to drive resolution through stabilisation of hypoxia inducible factor 1 alpha (HIF1 $\alpha$ ).
June 15, 2018	<a href="#">Angiotensin II receptor I blockade prevents stenosis of tissue engineered vascular grafts</a>	We previously developed a tissue-engineered vascular graft (TEVG) made by seeding autologous cells onto a biodegradable tubular scaffold, in an attempt

June 12, 2018	<a href="#">The endothelial tumor suppressor p53 is essential for venous thrombus formation in aged mice</a>	Venous thromboembolism (VTE) is a leading cause of morbidity and mortality in elderly people.
June 10, 2018	<a href="#">Pulmonary Arterial Hypertension and Endothelial Dysfunction Is Linked to NADPH Oxidase-Derived Superoxide Formation in Venous Thrombosis and Pulmonary Embolism in Mice</a>	Pulmonary embolism (PE) results from deep vein thrombosis (DVT) and can lead to chronic thromboembolic pulmonary hypertension (CTEPH) involving vascul
May 24, 2018	<a href="#">Perivascular Adipose Tissue-Derived PDGF-D Contributes to Aortic Aneurysm Formation during Obesity</a>	Obesity increases the risk of vascular diseases, including aortic aneurysm (AA).
May 18, 2018	<a href="#">Ginkgo biloba extracts prevent aortic rupture in angiotensin II-infused hypercholesterolemic mice</a>	Abdominal aortic aneurysms (AAAs) are a chronic vascular disease characterized by pathological luminal dilation.
April 01, 2018	<a href="#">Red blood cell antibody-induced anemia causes differential degrees of tissue hypoxia in kidney and brain</a>	Moderate anemia is associated with increased mortality and morbidity, including acute kidney injury (AKI), in surgical patients.
April 01, 2018	<a href="#">Diabetes Reduces Severity of Aortic Aneurysms Depending on the Presence of Cell Division Autoantigen 1 (CDA1)</a>	Diabetes is a negative risk factor for aortic aneurysm, but the underlying explanation for this phenomenon is unknown.
March 15, 2018	<a href="#">The large-conductance voltage- and Ca<sup>2+</sup>-activated K<sup>+</sup> channel and its <math>\gamma</math>1-subunit modulate mouse uterine artery function during pregnancy</a>	The uterine artery (UA) markedly vasodilates during pregnancy to direct blood flow to the developing fetus.
March 08, 2018	<a href="#">MicroRNA-21 Knockout Exacerbates Angiotensin II-Induced Thoracic Aortic Aneurysm and Dissection in Mice With Abnormal Transforming Growth Factor-<math>\beta</math>-SMAD3 Signaling</a>	Objective—Thoracic aortic aneurysm and dissection (TAAD) are severe vascular conditions.
March 02, 2018	<a href="#">Minoxidil improves vascular compliance, restores cerebral blood flow and alters extracellular matrix gene expression in a model of chronic vascular stiffness</a>	Increased vascular stiffness correlates with higher risk of cardiovascular complications in aging adults.
February 16, 2018	<a href="#">Effects of teriparatide on morphology of aortic calcification in aged hyperlipidemic mice</a>	Calcific aortic vasculopathy correlates with bone loss in osteoporosis in an age-independent manner.

February 12, 2018	<a href="#">In vitro photoacoustic spectroscopy of pulsatile blood flow: probing the interrelationship between red blood cell aggregation and oxygen saturation</a>	Assessments of the appropriateness and inappropriateness of behaviors may influence conflict, cohesion, and goal attainment in multinational organizations
January 18, 2018	<a href="#">Pulmonary vascular dysfunction secondary to pulmonary arterial hypertension: Insights gained through retrograde perfusion</a>	Here, we tested the hypothesis that severe pulmonary arterial hypertension impairs retrograde perfusion.
January 02, 2018	<a href="#">Alternative RNA splicing in the endothelium mediated in part by Rbfox2 regulates the arterial response to low flow</a>	Low and disturbed blood flow drives the progression of arterial diseases including atherosclerosis and aneurysms.
January 01, 2018	<a href="#">Chemokine CC-motif ligand 2 participates in platelet function and arterial thrombosis by regulating PKC<math>\alpha</math>-P38MAPK-HSP27 pathway</a>	Background: Studies indicate that chemokine CC-motif ligand 2 (CCL2) is involved in inflammation and atherosclerosis.
January 01, 2018	<a href="#">CXCL8 hyper-signaling in the aortic abdominal aneurysm</a>	There are indications for elevated CXCL8 levels in abdominal aortic aneurysm disease (AAA).
January 01, 2018	<a href="#">Cell Type-Specific Contributions of the Angiotensin II Type 1a Receptor to Aorta Homeostasis and Aneurysmal Disease</a>	OBJECTIVE Two were the aims of this study: first, to translate whole-genome expression profiles into computational predictions of functional associations
January 01, 2018	<a href="#">Simultaneous ablation of uterine natural killer cells and uterine mast cells in mice leads to poor vascularization and abnormal doppler measurements that compromise fetal well-being</a>	Intrauterine growth restriction (IUGR) is a serious pregnancy complication with short- and long-term health consequences.
January 01, 2018	<a href="#">Rho Kinase Inhibitor, Fasudil, Attenuates Contrast-induced Acute Kidney Injury</a>	Abstract: In this study, we tested the hypothesis that fasudil, a Rho kinase inhibitor, would protect against contrast-induced acute kidney injury (CI
January 01, 2018	<a href="#">Improved photoacoustic-based oxygen saturation estimation with SNR-regularized local fluence correction</a>	As photoacoustic (PA) imaging makes its way into the clinic, accuracy of PA-based metrics becomes increasingly important.

January 01, 2018	<a href="#">Role of Acid Sphingomyelinase and Ceramide in Mechano-Acoustic Enhancement of Tumor Radiation Responses</a>	Background: High-dose radiotherapy (>8-10 Gy) causes rapid endothelial cell death via acid sphingomyelinase (ASMase)-induced ceramide production, resu
January 01, 2018	<a href="#">The complement C3a-C3aR axis promotes development of thoracic aortic dissection via regulation of MMP2 expression</a>	© 2018 by The American Association of Immunologists, Inc. All rights reserved.
January 01, 2018	<a href="#">Four Surgical Modifications to the Classic Elastase Perfusion Aneurysm Model Enable Haemodynamic Alterations and Extended Elastase Perfusion</a>	OBJECTIVE/BACKGROUND: Abdominal aortic aneurysm (AAA) is an individual and socioeconomic burden in today's ageing society.
January 01, 2018	<a href="#">Vascular endothelial function is impaired by aerosol from a single IQOS HeatStick to the same extent as by cigarette smoke</a>	Background Heated tobacco products (also called 'heat-not-burn' products) heat tobacco at temperatures below that of combustion, causing nicotine and
January 01, 2018	<a href="#">In vivo inhibition of nuclear factor of activated T-cells leads to atherosclerotic plaque regression in IGF-II/LDLR -/- ApoB 100/100 mice</a>	Aims:Despite vast clinical experience linking diabetes and atherosclerosis, the molecular mechanisms leading to accelerated vascular damage are still
January 01, 2018	<a href="#">Deep Vein Thrombosis Induced by Stasis in Mice Monitored by High Frequency Ultrasonography.</a>	Venous thrombosis is a common condition affecting 1 - 2% of the population, with an annual incidence of 1 in 500.
January 01, 2018	<a href="#">Rapamycin prevents thoracic aortic aneurysm and dissection in mice</a>	Objective: The purpose of this study was to investigate whether rapamycin inhibits the development of thoracic aortic aneurysm and dissection (TAAD) i
January 01, 2018	<a href="#">Vascular Remodeling Process of Heparin-Conjugated Poly(ε-Caprolactone) Scaffold in a Rat Abdominal Aorta Replacement Model</a>	In the field of vascular graft research, poly-ε-caprolactone (PCL) is used owing to its good mechanical strength and biocompatibility.
January 01, 2018	<a href="#">Temporal and spatial changes in wall shear stress during atherosclerotic plaque progression in mice</a>	Wall shear stress (WSS) is involved in atherosclerotic plaque initiation, yet its role in plaque progression remains unclear.

January 01, 2018	<a href="#">Copper sulfide nanoparticles as a photothermal switch for TRPV1 signaling to attenuate atherosclerosis</a>	Atherosclerosis is characterized by the accumulation of lipids within the arterial wall.
January 01, 2018	<a href="#">Restoring mitochondrial DNA copy number preserves mitochondrial function and delays vascular aging in mice</a>	Aging is the largest risk factor for cardiovascular disease, yet the molecular mechanisms underlying vascular aging remain unclear.
January 01, 2018	<a href="#">Increased placental T cell trafficking results in adverse neurobehavioral outcomes in offspring exposed to sub-chronic maternal inflammation</a>	Interleukin-1 beta (IL-1 $\beta$ ) is a cytokine mediator of perinatal brain injury.
January 01, 2018	<a href="#">Deficiency of IL12p40 (Interleukin 12 p40) Promotes Ang II (Angiotensin II)–Induced Abdominal Aortic Aneurysm</a>	Objective—Abdominal aortic aneurysm is caused by the accumulation of inflammatory cells in the aortic wall.
January 01, 2018	<a href="#">Transcriptional regulation mediated by H2A.Z via ANP32e-dependent inhibition of protein phosphatase 2A</a>	The mechanisms that regulate H2A.Z and its requirement for transcription in differentiated mammalian cells remains ambiguous.
January 01, 2018	<a href="#">Diet-induced obesity alters the maternal metabolome and early placenta transcriptome and decreases placenta vascularity in the mouse</a>	Obesity in a mouse model leads to alterations in the maternal metabolome and early placenta transcriptome as well as changes in vascularity later in g
January 01, 2018	<a href="#">Systemic Upregulation of IL-10 (Interleukin-10) Using a Nonimmunogenic Vector Reduces Growth and Rate of Dissecting Abdominal Aortic Aneurysm</a>	Original Research Systemic Upregulation of IL-10 (Interleukin-10) Using a Nonimmunogenic Vector Reduces Growth and Rate of Dissecting Abdominal Aortic
January 01, 2018	<a href="#">Notoginsenoside R1, a unique constituent of Panax notoginseng, blinds proinflammatory monocytes to protect against cardiac hypertrophy in ApoE<sup>-/-</sup> mice</a>	Notoginsenoside R1, a unique constituent from the root of Panax notoginseng, exerts anti-inflammatory, anti-oxidative and anti-apoptotic properties.
January 01, 2018	<a href="#">Lipid-Lowering Therapy With Ezetimibe Decreases Spontaneous Atherothrombotic Occlusions in a Rabbit Model of Plaque Erosion</a>	OBJECTIVE: Plaque erosion is increasing its importance as one of the mechanisms of acute coronary syndromes in this statin era.
January 01, 2018	<a href="#">Angiotensin-(1-7)-induced Mas receptor activation attenuates atherosclerosis through a nitric oxide-dependent mechanism in apolipoproteinE-KO mice</a>	© 2018 Springer-Verlag GmbH Germany, part of Springer Nature Angiotensin (Ang)-(1-7) ameliorates vascular injury by increasing nitric oxide (NO) bioav



January 01, 2018	<a href="#">Increased Calcific Aortic Valve Disease in response to a diabetogenic, procalcific diet in the LDLr-/-ApoB100/100mouse model</a>	Objective: Calcific aortic valve disease (CAVD) is a major cause of aortic stenosis (AS) and cardiac insufficiency.
January 01, 2018	<a href="#">Motion model ultrasound localization microscopy for preclinical and clinical multiparametric tumor characterization</a>	Super-resolution imaging methods promote tissue characterization beyond the spatial resolution limits of the devices and bridge the gap between histop
January 01, 2018	<a href="#">Chronic exposure to electronic cigarette (E-cig) results in impaired cardiovascular function in mice</a>	Proponents for electronic cigarettes(E-cigs) claim they are a safe alternative to smoking tobacco-based cigarettes,however little is known about the l
January 01, 2018	<a href="#">Glucagon-like peptide-1 receptor antagonism impairs basal exercise capacity and vascular adaptation to aerobic exercise training in rats</a>	Cardiorespiratory fitness (CRF) inversely predicts cardiovascular (CV) mortal- ity and CRF is impaired in people with type 2 diabetes (T2D).
January 01, 2018	<a href="#">Identification of type IV collagen exposure as a molecular imaging target for early detection of thoracic aortic dissection</a>	Thoracic aortic dissection (TAD) is an aggressive and life-threatening vascular disease and there is no effective means of early diagnosis of dissecti
January 01, 2018	<a href="#">Lack of T-bet reduces monocytic interleukin-12 formation and accelerates thrombus resolution in deep vein thrombosis</a>	© 2018 The Author(s). The role of leukocytes in deep vein thrombosis (DVT) resolution is incompletely understood.
January 01, 2018	<a href="#">Sympathetic Neuronal Activation Triggers Myeloid Progenitor Proliferation and Differentiation</a>	There is a growing body of research on the neural control of immunity and inflammation.
January 01, 2018	<a href="#">Inhibition of endoplasmic reticulum stress by intermedin1-53 attenuates angiotensin II-induced abdominal aortic aneurysm in ApoE KO Mice</a>	Endoplasmic reticulum stress (ERS) is involved in the development of abdominal aortic aneurysm (AAA).
January 01, 2018	<a href="#">Alterations of Ocular Hemodynamics Impair Ophthalmic Vascular and Neuroretinal Function</a>	Hypertension is associated with numerous diseases, but its direct impact on the ocular circulation and neuroretinal function remains unclear.

January 01, 2018	<a href="#">Protein-1 ) in Smooth Muscle Cells Protects Mice From Abdominal Aortic Aneurysms</a>	Abdominal aortic aneurysm (AAA) has high mortality rate when ruptured, but currently, there is no proven pharmacological therapy for AAA because of ou
January 01, 2018	<a href="#">Angiotensin II Infusion Does Not Cause Abdominal Aortic Aneurysms in Apolipoprotein E-Deficient Rats</a>	The apolipoprotein E-deficient ( apoE –/– ) mouse model has advanced our understanding of cardiovascular disease mechanisms and experimental therapeut
January 01, 2018	<a href="#">Cohort-based multiscale analysis of hemodynamic-driven growth and remodeling of the embryonic pharyngeal arch arteries</a>	Growth and remodeling of the primitive pharyngeal arch artery (PAA) network into the extracardiac great vessels is poorly understood but a major sourc
January 01, 2018	<a href="#">Elevated 20-HETE in metabolic syndrome regulates arterial stiffness and systolic hypertension via MMP12 activation</a>	Arterial stiffness plays a causal role in development of systolic hypertension.
January 01, 2018	<a href="#">A biodegradable synthetic graft for small arteries matches the performance of autologous vein in rat carotid arteries</a>	Autologous veins are the most widely used grafts for bypassing small arteries in coronary and peripheral arterial occlusive diseases.
January 01, 2018	<a href="#">Ganoderma Triterpenoids Exert Antiatherogenic Effects in Mice by Alleviating Disturbed Flow-Induced Oxidative Stress and Inflammation</a>	Ganoderma mushrooms, used in traditional Chinese medicine to promote health and longevity, have become widely accepted as herbal supplements.
January 01, 2018	<a href="#">A context-specific cardiac <math>\beta</math>-catenin and GATA4 interaction influences TCF7L2 occupancy and remodels chromatin driving disease progression in the adult heart</a>	Chromatin remodelling precedes transcriptional and structural changes in heart failure.
January 01, 2018	<a href="#">The chronic complex stress combined atherogenic diet accelerates the process of atherosclerosis in mice</a>	The effects of stress on the atherosclerosis are complex.
January 01, 2018	<a href="#">Gut-dependent microbial translocation induces inflammation and cardiovascular events after ST-elevation myocardial infarction</a>	Background: Post-infarction cardiovascular remodeling and heart failure are the leading cause of myocardial infarction (MI)-driven death during the pa

January 01, 2018	<a href="#">Upregulation of Vascular Endothelial Growth Factor in Amniotic Fluid Stem Cells Enhances Their Potential to Attenuate Lung Injury in a Preterm Rabbit Model of Bronchopulmonary Dysplasia</a>	BACKGROUND: Bronchopulmonary dysplasia (BPD) is a chronic lung disease that affects extremely preterm infants and remains - despite improvements in ne
December 17, 2017	<a href="#">Large is required for normal astrocyte migration and retinal vasculature development</a>	Background: Persistent fetal vasculature (PFV) is a congenital developmental anomaly of the eye that accounts for about 5% of childhood blindness.
December 04, 2017	<a href="#">The Hippo signaling pathway: a potential therapeutic target is reversed by a Chinese patent drug in rats with diabetic retinopathy</a>	Background: The Hippo signaling pathway is reported to be involved in angiogenesis, but the roles of the Hippo pathway in diabetic retinopathy have no
August 10, 2017	<a href="#">Sustained Placental Growth Factor-2 Treatment Does Not Aggravate Advanced Atherosclerosis in Ischemic Cardiomyopathy</a>	Angiogenic growth factor therapy for ischemic cardiovascular disease carries a risk of stimulating atherosclerotic plaque growth.
August 01, 2017	<a href="#">A Novel Murine Model of Marfan Syndrome Accelerates Aortopathy and Cardiomyopathy</a>	Background. Marfan syndrome (MFS) represents a genetic disorder with variable phenotypic expression.
June 27, 2017	<a href="#">Fibrin-Targeted and H<sub>2</sub>O<sub>2</sub>-Responsive Nanoparticles as a Theranostics for Thrombosed Vessels</a>	A thrombus (blood clot) is formed in injured vessels to maintain the integrity of vasculature.
June 13, 2017	<a href="#">Role of Bone Marrow Mononuclear Cell Seeding for Nanofiber Vascular Grafts</a>	OBJECTIVE: Electrospinning is a promising technology that provides biodegradable nanofiber scaffolds for cardiovascular tissue engineering.
June 09, 2017	<a href="#">Loss of Smooth Muscle <math>\alpha</math>-Actin Leads to NF-<math>\kappa</math>B-Dependent Increased Sensitivity to Angiotensin II in Smooth Muscle Cells and Aortic Enlargement Novelty and Significance</a>	RATIONALE Mutations in ACTA2, encoding the smooth muscle isoform of $\alpha$ -actin, cause thoracic aortic aneurysms, acute aortic dissections, and occlusive
June 01, 2017	<a href="#">Establishment and evaluation of a reversible two-kidney, one-clip renovascular hypertensive rat model</a>	The aim of the present study was to establish and evaluate a novel and reversible two-kidney, one-clip renovas- cular hypertensive rat model with a ti

June 01, 2017	<a href="#">Loss of MURC/Cavin-4 induces JNK and MMP-9 activity enhancement in vascular smooth muscle cells and exacerbates abdominal aortic aneurysm</a>	Abdominal aortic aneurysm (AAA) is relatively common in elderly patients with atherosclerosis.
June 01, 2017	<a href="#">Reduced arterial elasticity due to surgical skeletonization is ameliorated by abluminal PEG hydrogel</a>	Arteries for bypass grafting are harvested either with neighboring tissue attached or as skeletonized vessels that are free of surrounding tissue.
May 09, 2017	<a href="#">Effect of chronic estradiol plus progesterone treatment on experimental arterial and venous thrombosis in mouse</a>	Postmenopausal hormone replacement therapy (HRT) with estrogen plus progestogens is the first line therapy to treat menopausal symptoms.
May 02, 2017	<a href="#">Deficient Circumferential Growth Is the Primary Determinant of Aortic Obstruction Attributable to Partial Elastin Deficiency</a> <b>Highlights</b>	Objective—Williams syndrome is characterized by obstructive aortopathy attributable to heterozygous loss of ELN, the gene encoding elastin.
April 10, 2017	<a href="#">Cytoglobin regulates blood pressure and vascular tone through nitric oxide metabolism in the vascular wall</a>	The identity of the specific nitric oxide dioxygenase (NOD) that serves as the main in vivo regulator of O <sub>2</sub> -dependent NO degradation in smooth muscle
April 01, 2017	<a href="#">Inhibition or deletion of angiotensin II type 1 receptor suppresses elastase-induced experimental abdominal aortic aneurysms</a>	Objective: Angiotensin (Ang) II type 1 receptor (AT1) activation is essential for the development of exogenous Ang II-induced abdominal aortic aneurys
April 01, 2017	<a href="#">Long-term miR-29b suppression reduces aneurysm formation in a Marfan mouse model</a>	Aortic root aneurysm formation and subsequent dissection and/or rupture remain the leading cause of death in patients with Marfan syndrome.
April 01, 2017	<a href="#">Epoetin beta pegol ameliorates flow-mediated dilation with improving endothelial nitric oxide synthase coupling state in nonobese diabetic rats</a>	BACKGROUND/AIMS: Patients with diabetic nephropathy have a high cardiovascular mortality.
March 29, 2017	<a href="#">Development of a Glycosaminoglycan Derived, Selectin Targeting Anti-Adhesive Coating to Treat Endothelial Cell Dysfunction</a>	Endothelial cell (EC) dysfunction is associated with many disease states including deep vein thrombosis (DVT), chronic kidney disease, sepsis and diab

March 24, 2017	<a href="#">Chronic PARP-1 inhibition reduces carotid vessel remodeling and oxidative damage of the dorsal hippocampus in spontaneously hypertensive rats</a>	Vascular remodeling during chronic hypertension may impair the supply of tissues with oxygen, glucose and other compounds, potentially unleashing dele
March 09, 2017	<a href="#">A comparative study of the characterization of miR-155 in knockout mice</a>	miR-155 is one of the most important miRNAs and plays a very important role in numerous biological processes.
March 01, 2017	<a href="#">Murine ultrasound-guided transabdominal para-aortic injections of self-assembling type I collagen oligomers</a>	Abdominal aortic aneurysms (AAAs) represent a potentially life-threatening condition that predominantly affects the infrarenal aorta.
February 20, 2017	<a href="#">Dual-acting biofunctionalised scaffolds for applications in regenerative medicine</a>	Off the shelf scaffolds for replacing ultra-small diameter vascular grafts are valuable for reconstruction of diseased or damaged vessels.
February 14, 2017	<a href="#">Deletion of Hypoxia-Inducible Factor-1<math>\alpha</math> in Myeloid Lineage Exaggerates Angiotensin II-Induced Formation of Abdominal Aortic Aneurysm</a>	Hypoxia-inducible factor (HIF)-1 $\alpha$ is a transcription factor that regulates various genes responding to hypoxic conditions.
February 14, 2017	<a href="#">Ultrasound-based Pulse Wave Velocity Evaluation in Mice</a>	Arterial stiffness can be evaluated by calculating pulse wave velocity (PWV), i.e., the speed with which the pulse wave travels in a conduit vessel.
February 01, 2017	<a href="#">Increased Oxidative Stress and Hypoxia Inducible Factor-1 Expression during Arteriovenous Fistula Maturation</a>	BACKGROUND: The poor clinical results that are frequently reported for arteriovenous fistulae (AVF) for hemodialysis are typically due to failure of A
February 01, 2017	<a href="#">In vivo photoacoustic lipid imaging in mice using the second near-infrared window</a>	Photoacoustic imaging has emerged as a promising technique to improve preclinical and clinical imaging by providing users with label-free optical cont
February 01, 2017	<a href="#">Dual effects of fructose on ChREBP and FoxO1/3<math>\alpha</math> are responsible for AldoB up-regulation and vascular remodelling</a>	Increased production of methylglyoxal (MG) in vascular tissues is one of the causative factors for vascular remodeling in different subtypes of metabo

January 24, 2017	<a href="#">Female Mice With an XY Sex Chromosome Complement Develop Severe Angiotensin II–Induced Abdominal Aortic AneurysmsClinical Perspective</a>	Background—Abdominal aortic aneurysms (AAAs) are a deadly pathology with strong sexual dimorphism.
January 12, 2017	<a href="#">Mutations in HYAL2, Encoding Hyaluronidase 2, Cause a Syndrome of Orofacial Clefting and Cor Triatriatum Sinister in Humans and Mice</a>	Orofacial clefting is amongst the most common of birth defects, with both genetic and environmental components.
January 09, 2017	<a href="#">Nitric oxide mediates aortic disease in mice deficient in the metalloprotease Adams1 and in a mouse model of Marfan syndrome</a>	Heritable thoracic aortic aneurysms and dissections (TAAD), including Marfan syndrome (MFS), currently lack a cure, and causative mutations have been
January 01, 2016	<a href="#">Eph-B4 regulates adaptive venous remodeling to improve arteriovenous fistula patency</a>	Low rates of arteriovenous fistula (AVF) maturation prevent optimal fistula use for hemodialysis; however, the mechanism of venous remodeling in the f
January 01, 2016	<a href="#">Expanding Acquisition and Clutter Filter Dimensions for Improved Perfusion Sensitivity</a>	A method is explored for increasing the sensitivity of power-Doppler imaging without contrast enhancement.
January 01, 2016	<a href="#">Original Research: Feasibility and safety of two surgical techniques for the development of an animal model of jugular vein occlusion</a>	To date, no studies have explored the effect of abnormal cerebral venous circulation on brain disorders, whereas many studies have investigated neurod
January 01, 2016	<a href="#">Unspliced XBP1 Confers VSMC Homeostasis and Prevents Aortic Aneurysm Formation via FoxO4 Interaction</a>	Rationale: Although not fully understood, the phenotypic transition of vascular smooth muscle cells exhibits at the early onset of the pathology of ao
January 01, 2016	<a href="#">Monitoring inflammation injuries in the progression of atherosclerosis with contrast enhanced ultrasound molecular imaging</a>	PURPOSE: The upregulation of vascular cell adhesion molecule-1 (VCAM-1) on vascular endothelium plays a great role in the progression of atheroscleroti
January 01, 2016	<a href="#">Recombinant Decorin Fusion Protein Attenuates Murine Abdominal Aortic Aneurysm Formation and Rupture</a>	Decorin (DCN) is a small-leucine rich proteoglycan that mediates collagen fibrillogenesis, organization, and tensile strength.
January 01, 2016	<a href="#">High-Fat, High-Sugar Diet-Induced Subendothelial Matrix Stiffening is Mitigated by Exercise</a>	Consumption of a high-fat, high-sugar diet and sedentary lifestyle are correlated with bulk arterial stiffening.

January 01, 2016	<a href="#">Toll-like receptor-4 signaling pathway in aorta aging and diseases: "its double nature"</a>	Recent advances in the field of innate immunity have revealed a complex role of innate immune signaling pathways in both tissue homeostasis and diseases
January 01, 2016	<a href="#">Targeting Interleukin-1<math>\beta</math> Protects from Aortic Aneurysms Induced by Disrupted Transforming Growth Factor <math>\beta</math> Signaling</a>	Aortic aneurysms are life-threatening conditions with effective treatments mainly limited to emergency surgery or trans-arterial endovascular stent graft
January 01, 2016	<a href="#">Altered Penile Caveolin Expression in Diabetes: Potential Role in Erectile Dysfunction</a>	Background The pathophysiology of increased severity of erectile dysfunction in men with diabetes and their poor response to oral pharmacotherapy are
January 01, 2016	<a href="#">Improving in vivo outcomes of decellularized vascular grafts via incorporation of a novel extracellular matrix</a>	Each year, hundreds of thousands coronary bypass procedures are performed in the US, yet there currently exists no off-the-shelf alternative to autologous
January 01, 2016	<a href="#">Deficiency of CCAAT/enhancer-binding protein homologous protein (CHOP) prevents diet-induced aortic valve calcification in vivo</a>	Aortic valve (AoV) calcification is common in aged populations.
January 01, 2016	<a href="#">Oral chromium picolinate impedes hyperglycemia-induced atherosclerosis and inhibits proatherogenic protein TSP-1 expression in STZ-induced type 1 diabetic ApoE -/- mice</a>	Increasing evidence suggests thrombospondin-1 (TSP-1), a potent proatherogenic extracellular matrix protein, as a putative link between hyperglycemia and atherosclerosis
January 01, 2016	<a href="#">DBZ (Danshensu Bingpian Zhi), a novel natural compound derivative, attenuates atherosclerosis in apolipoprotein E-Deficient mice</a>	Background-DBZ (Danshensu Bingpian Zhi), a synthetic derivative of a natural compound found in traditional Chinese medicine, has been reported to suppress
January 01, 2016	<a href="#">Comparison of very-high-frequency ultrasound assessment of radial arterial wall layers after first and repeated transradial coronary procedures</a>	BACKGROUND Transradial coronary procedure (TRP) traumatizes the radial artery (RA), especially resulting in changes to arterial wall morphology.
January 01, 2016	<a href="#">5-HT causes splanchnic venodilation</a>	Serotonin [5-hydroxytryptamine (5-HT)] causes relaxation of the isolated superior mesenteric vein, a splanchnic blood vessel, through activation of the

January 01, 2016	<a href="#">In vivo MR-angiography for the assessment of aortic aneurysms in an experimental mouse model on a clinical MRI scanner: Comparison with high-frequency ultrasound and histology</a>	Background MR-angiography currently represents one of the clinical reference-standards for the assessment of aortic-dimensions.
January 01, 2016	<a href="#">Deletion of the NR4A nuclear receptor NOR1 in hematopoietic stem cells reduces inflammation but not abdominal aortic aneurysm formation</a>	Background: The NR4A3 orphan nuclear hormone receptor, NOR1, functions as a constitutively active transcription factor to regulate inflammation, proli
January 01, 2016	<a href="#">Pentaerythritol tetranitrate (PETN) in-vivo treatment improves oxidative stress and vascular dysfunction by suppression of endothelin-1 signaling in monocrotaline-induced pulmonary hypertension</a>	Objective: Oxidative stress and endothelial dysfunction contribute to pulmonary arterial hypertension (PAH).
January 01, 2016	<a href="#">Differential Effects of EGFL6 on Tumor versus Wound Angiogenesis</a>	Angiogenesis inhibitors are important for cancer therapy, but clinically approved anti-angiogenic agents have shown only modest efficacy and can compr
January 01, 2016	<a href="#">Obesity-induced vascular dysfunction and arterial stiffening requires endothelial cell arginase 1</a>	Aims Elevation of arginase activity has been linked to vascular dysfunction in diabetes and hypertension by a mechanism involving decreased nitric oxi
January 01, 2016	<a href="#">Effects of Rotigaptide and RIC on Ischemia Reperfusion Injury in the In Vitro Rabbit Heart</a>	Background: Remote Ischemic Preconditioning (rIPC) and the antiarrhythmic peptide analogue, Rotigaptide (ZP123), protects against myocardial ischemia-
January 01, 2016	<a href="#">Cortistatin attenuates angiotensin II-induced abdominal aortic aneurysm through inactivation of the ERK1/2 signaling pathways</a>	Abdominal aortic aneurysm (AAA) is a fatal disease that is associated with chronic inflammation in the vessel wall.
January 01, 2016	<a href="#">Dietary potassium regulates vascular calcification and arterial stiffness</a>	Vascular calcification is a risk factor that predicts adverse cardiovascular complications of several diseases including atherosclerosis.
January 01, 2016	<a href="#">Characterization of age-related penile microvascular hemodynamic impairment using laser speckle contrast imaging: Possible role of increased fibrogenesis</a>	Current technology for penile hemodynamic evaluations in small animals is invasive and has limitations.



January 01, 2016	<a href="#">Loss of vascular smooth muscle cell autophagy exacerbates angiotensin II-associated aortic remodeling</a>	Objective: The pathophysiologic processes of abdominal aortic aneurysms (AAAs) and atherosclerosis often intersect.
January 01, 2016	<a href="#">Aortic microcalcification is associated with elastin fragmentation in Marfan syndrome</a>	Marfan syndrome (MFS) is a connective tissue disorder in which aortic rupture is the major cause of death.
January 01, 2016	<a href="#">Molecularly Engineered Theranostic Nanoparticles for Thrombosed Vessels: H2O2-Activatable Contrast-Enhanced Photoacoustic Imaging and Antithrombotic Therapy</a>	A thrombus (blood clot), composed mainly of activated platelets and fibrin, obstructs arteries or veins, leading to various life-threatening diseases.
January 01, 2016	<a href="#">Computer-Aided Evaluation of Blood Vessel Geometry From Acoustic Images</a>	A method for computer-aided assessment of blood vessel geometries based on shape-fitting algorithms from metric vision was evaluated.
January 01, 2016	<a href="#">Moderately Elevated Homocysteine Does Not Contribute to Thoracic Aortic Aneurysm in Mice</a>	Background: Moderate hyperhomocysteinemia is an attractive target for intervention because it is present in 5-7% of the population and can be reversed
January 01, 2016	<a href="#">Fetal Alcohol Exposure Alters Blood Flow and Neurological Responses to Transient Cerebral Ischemia in Adult Mice</a>	Background: Prenatal alcohol exposure (PAE) can result in physical and neurocognitive deficits that are collectively termed "fetal alcohol spectrum di
January 01, 2016	<a href="#">Renal Resistive Index as a Novel Indicator for Renal Complications in High-Fat Diet-Fed Mice</a>	Background/Aims: The renal resistive index (RI) is a novel candidate as a renal injury prognostic indicator, but it remains unclear how renal RI level
January 01, 2016	<a href="#">Notch1 haploinsufficiency causes ascending aortic aneurysms in mice.</a>	An ascending aortic aneurysm (AscAA) is a life-threatening disease whose molecular basis is poorly understood.
January 01, 2016	<a href="#">Divergent coronary flow responses to uridine adenosine tetraphosphate in atherosclerotic ApoE knockout mice</a>	Uridine adenosine tetraphosphate (Up 4 A) exerts potent relaxation in porcine coronary arteries that is reduced following myocardial infarction, sugge

January 01, 2016	<a href="#">Possible type 1 diabetes risk prediction: Using ultrasound imaging to assess pancreas inflammation in the inducible autoimmune diabetes BBDR model</a>	Background/Aims Studies of human cadaveric pancreas specimens indicate that pancreas inflammation plays an important role in type 1 diabetes pathogene
January 01, 2016	<a href="#">HPW-RX40 prevents human platelet activation by attenuating cell surface protein disulfide isomerases</a>	Protein disulfide isomerase (PDI) present at platelet surfaces has been considered to play an important role in the conformational change and activati
January 01, 2016	<a href="#">Collagen External Scaffolds Mitigate Intimal Hyperplasia and Improve Remodeling of Vein Grafts in a Rabbit Arteriovenous Graft Model</a>	Objectives .
January 01, 2016	<a href="#">Suppression of aortic expansion and contractile recovery in a rat abdominal aortic aneurysm model by biodegradable gelatin hydrogel sheet incorporating basic fibroblast growth factor</a>	Biodegradable gelatin hydrogel sheet (BGHS) incorporating basic fibroblast growth factor (bFGF) may inhibit the pro- gression of abdominal aortic aneu
January 01, 2016	<a href="#">Intravascular application of electrocautery in a rabbit model of abdominal aortic endarterectomy</a>	Effective therapies for preventing perioperative complications such as thrombosis and inflammation after coro- nary endarterectomy (CE) are lacking.
January 01, 2016	<a href="#">Trimethylamine-N-oxide induces vascular inflammation by activating the NLRP3 inflammasome through the SIRT3-SOD2-mtROS signaling pathway</a>	BACKGROUND Trimethylamine-N-oxide (TMAO) has recently been identified as a novel and independent risk factor for promoting atherosclerosis through ind
January 01, 2016	<a href="#">Non-invasive longitudinal monitoring of angiogenesis in a murine full-thickness cutaneous wound healing model using high-resolution three-dimensional ultrasound imaging</a>	Background/Purpose: The aim of this study was to evaluate the longitudinal monitoring of angiogenesis in a murine full- thickness cutaneous wound heal
January 01, 2016	<a href="#">Photoacoustic Imaging: A Novel Tool for Detecting Carotid Artery Thrombosis in Mice</a>	Thrombosis is a main cause of acute cardiovascular events, and detecting thrombi in small arteries via noninvasive im- aging remains challenging.

January 01, 2016	<a href="#">Customization of bilio-pancreatic limb length to modulate and sustain anti-diabetic effect of gastric bypass surgery</a>	Although Roux-en-Y Gastric Bypass (RYGB) remains the most effective treatment for obesity and type 2 diabetes (T2D), many patients fail to achieve rem
January 01, 2016	<a href="#">Angiotensin II infusion into ApoE-/- mice: a model for aortic dissection rather than abdominal aortic aneurysm?</a>	Aims Angiotensin II-infused ApoE-/- mice are a popular mouse model for preclinical aneurysm research.
December 22, 2016	<a href="#">SRC-1 Regulates Blood Pressure and Aortic Stiffness in Female Mice</a>	Framingham Heart Study suggests that dysfunction of steroid receptor coactivator-1 may be involved in the development of hypertension.
December 12, 2016	<a href="#">The role of GRIP1 and ephrin B3 in blood pressure control and vascular smooth muscle cell contractility</a>	Several erythropoietin-producing hepatocellular receptor B family (EPHB) and their ligands, ephrinBs (EFNBs), are involved in blood pressure regulatio
December 12, 2016	<a href="#">Mouse models of deep vein thrombosis</a>	
December 01, 2016	<a href="#">Serelaxin improves the pathophysiology of placental ischemia in the reduced uterine perfusion pressure rat model of preeclampsia</a>	Preeclampsia is a hypertensive disorder of pregnancy with limited therapeutic options.
December 01, 2016	<a href="#">Smart Microbubble Eluting Theranostic Stent for Noninvasive Ultrasound Imaging and Prevention of Restenosis</a>	A pH-responsive microbubble-eluting theranostic stent is developed for real-time ultrasound imaging of stent implanted blood vessels and dissolution o
December 01, 2016	<a href="#">Maternal vascular responses to hypoxia in a rat model of intrauterine growth restriction</a>	Maternal vascular responses to hypoxia in a rat model of intrauterine growth restriction.
November 23, 2016	<a href="#">Intrauterine Growth Restriction Influences Vascular Remodeling and Stiffening in the Weanling Rat More than Sex or Diet</a>	Intrauterine growth restriction (IUGR) increases the incidence of adult cardiovascular disease (CVD).
November 11, 2016	<a href="#">Photoacoustic Imaging for the Detection of Hypoxia in the Rat Femoral Artery and Skeletal Muscle Microcirculation</a>	Photoacoustic (PA) imaging is an emerging technology that combines structural and functional imaging of tissues using laser and ultrasound energy.

November 08, 2016	<a href="#">Aortic and Cardiac Structure and Function Using High-Resolution Echocardiography and Optical Coherence Tomography in a Mouse Model of Marfan Syndrome</a>	Marfan syndrome (MFS) is an autosomal-dominant disorder of connective tissue caused by mutations in the fibrillin-1 (FBN1) gene.
November 07, 2016	<a href="#">Functional screening of mammalian mechanosensitive genes using Drosophila RNAi library– Smarcd3/Bap60 is a mechanosensitive pro-inflammatory gene</a>	Disturbed blood flow (d-flow) induces atherosclerosis by altering the expression of mechanosensitive genes in the arterial endothelium.
November 02, 2016	<a href="#">in a Rat Model</a>	Hepatic infarcts or abscesses occur after hepatic artery interruption.
October 14, 2016	<a href="#">Angiotensin receptor blockade mediated amelioration of mucopolysaccharidosis type I cardiac and craniofacial pathology</a>	Mucopolysaccharidosis type I (MPS IH) is a lysosomal storage disease (LSD) caused by inactivating mutations to the alpha-L-iduronidase (IDUA) gene.
October 14, 2016	<a href="#">Smooth muscle cell-specific Tgfb1 deficiency promotes aortic aneurysm formation by stimulating multiple signaling events</a>	Transforming growth factor (TGF)- $\beta$ signaling disorder has emerged as a common molecular signature for aortic aneurysm development.
October 05, 2016	<a href="#">Innate Effector-Memory T Cell Activation Regulates Post-Thrombotic Vein Wall Inflammation and Thrombus Resolution</a>	Rationale: Immune cells play an important role during the generation and resolution of thrombosis.
October 05, 2016	<a href="#">Endothelial-like cells differentiated from mesenchymal stem cells attenuate neointimal hyperplasia after vascular injury</a>	The present study investigated the contribution of bone marrow-derived mesenchymal stem cells (BM-MSCs) to neointimal formation, and whether endotheli
October 04, 2016	<a href="#">Asymmetric pulsation of rat carotid artery bifurcation in three-dimension observed by ultrasound imaging</a>	Abstract The arterial structure cyclically fluctuates in three-dimensions (3-D) caused by pulsatile blood flow.
October 01, 2016	<a href="#">Toll-like receptor 4 mutation suppresses hyperhomocysteinemia-induced hypertension</a>	Hyperhomocysteinemia (HHcy) has been observed to promote hypertension, but the mechanisms are unclear.
September 13, 2016	<a href="#">Hemodynamic Influence on Smooth Muscle Cell Kinetics and Phenotype During Early Vein Graft Adaptation</a>	Pathologic vascular adaptation following local injury is the primary driver for accelerated intimal hyperplasia and an occlusive phenotype.

September 13, 2016	<a href="#">Matrix metalloproteinase inhibitor, doxycycline and progression of calcific aortic valve disease in hyperlipidemic mice</a>	Calcific aortic valve disease (CAVD) is the most common cause of aortic stenosis. Currently, there is no non-invasive medical therapy for CAVD.
September 01, 2016	<a href="#">Cardiovascular health effects of oral and pulmonary exposure to multi-walled carbon nanotubes in ApoE-deficient mice</a>	Exposure to high aspect ratio nanomaterials, such as multi-walled carbon nanotubes (MWCNTs) may be associated with increased risk of atherosclerosis,
September 01, 2016	<a href="#">Defective Connective Tissue Remodeling in Smad3 Mice Leads to Accelerated Aneurysmal Growth through Disturbed Downstream TGF-<math>\beta</math> Signaling</a>	Aneurysm-osteoarthritis syndrome characterized by unpredictable aortic aneurysm formation, is caused by SMAD3 mutations.
September 01, 2016	<a href="#">Visualization of haemophilic arthropathy in F8 -/- rats by ultrasonography and micro-computed tomography</a>	A major complication of haemophilia is haemophilic arthropathy (HA), a debilitating disorder with an incompletely defined pathobiology.
June 01, 2016	<a href="#">Resveratrol Decreases TXNIP mRNA and Protein Nuclear Expressions With an Arterial Function Improvement in Old Mice</a>	Aging leads to a high prevalence of glucose intolerance and cardiovascular diseases, with oxidative stress playing a potential role.
February 01, 2016	<a href="#">Assessment of Venous Thrombosis in Animal Models</a>	Deep vein thrombosis and common complications, including pulmonary embolism and post-thrombotic syndrome, represent a major source of morbidity and mo
January 01, 2015	<a href="#">Comparison of Arterial Input Function Models for Small-Animal Ultrasound Perfusion Imaging</a>	Background, Motivation and Objective Bolus & burst (B&B) is a method for quantitative ultrasound perfusion analysis combining bolus tracking and burst
January 01, 2015	<a href="#">Smooth muscle FGF/TGFbeta cross talk regulates atherosclerosis progression</a>	The conversion of vascular smooth muscle cells (SMCs) from contractile to proliferative phenotype is thought to play an important role in atherosclero
January 01, 2015	<a href="#">Re-assessing the enhanced permeability and retention effect in peripheral arterial disease using radiolabeled long circulating nanoparticles</a>	Abstract As peripheral arterial disease (PAD) results in muscle ischemia and neovascularization, it has been claimed that nanoparticles can passively

January 01, 2015	<a href="#">Partial Portal Vein Arterialization Attenuates Acute Bile Duct Injury Induced by Hepatic Dearterialization in a Rat Model</a>	Hepatic infarcts or abscesses occur after hepatic artery interruption.
January 01, 2015	<a href="#">Ascending Aortic Aneurysm in Angiotensin II-Infused Mice: Formation, Progression, and the Role of Focal Dissections.</a>	OBJECTIVE To understand the anatomy and physiology of ascending aortic aneurysms in angiotensin II-infused ApoE(-/-) mice.
January 01, 2015	<a href="#">Accelerated Blood Clearance Phenomenon Reduces the Passive Targeting of PEGylated Nanoparticles in Peripheral Arterial Disease</a>	Peripheral arterial disease (PAD) is a leading global health concern.
January 01, 2015	<a href="#">Fetal and Neonatal Stem Cells Early Intravenous Delivery of Human Brain Stromal Cells Modulates Systemic Inflammation and Leads to Vasoprotection in Traumatic Spinal Cord Injury</a>	Spinal cord injury (SCI) is a life-threatening condition with multifaceted complications and limited treatment options.
January 01, 2015	<a href="#">Influence of shear stress magnitude and direction on atherosclerotic plaque composition</a>	The precise flow characteristics that promote different atherosclerotic plaque types remain unclear.
September 01, 2015	<a href="#">Influence of physical activity and gender on arterial function in type 2 diabetes, normal and impaired glucose tolerance</a>	To determine whether Nordic walking improves cardiovascular function in middle-aged women and men, we included 121 with normal glucose tolerance, 33 w
June 01, 2015	<a href="#">The innate immune system contributes to tissue-engineered vascular graft performance</a>	The first clinical trial of tissue-engineered vascular grafts (TEVGs) identified stenosis as the primary cause of graft failure.
April 02, 2015	<a href="#">Noninvasive Molecular Ultrasound Monitoring of Vessel Healing After Intravascular Surgical Procedures in a Preclinical Setup.</a>	OBJECTIVE: Cardiovascular interventions induce damage to the vessel wall making antithrombotic therapy inevitable until complete endothelial recovery.
April 01, 2015	<a href="#">Photoacoustic Imaging of Vascular Hemodynamics: Validation with Blood Oxygenation Level-Dependent MR Imaging</a>	Purpose To noninvasively assess vascular hemodynamics with photoacoustic imaging (PAI) and blood oxygenation level-dependent (BOLD) magnetic resonance

January 01, 2015	<a href="#">Rip2 modifies VEGF-induced signalling and vascular permeability in myocardial ischaemia</a>	Aims In myocardial ischaemia, vascular endothelial growth factor (VEGF) induces permeability by activating a signalling path- way that includes VEGF r
January 01, 2015	<a href="#">Multimodality and Molecular Imaging of Matrix Metalloproteinase Activation in Calcific Aortic Valve Disease</a>	Calcific aortic valve disease (CAVD) is the most common cause of aortic stenosis.
January 01, 2015	<a href="#">Prostaglandin E synthase is upregulated by Gas6 during cancer-induced venous thrombosis.</a>	Venous thromboembolism (VTE) is a common complication of cancer.
January 01, 2015	<a href="#">Axl modulates immune activation of smooth muscle cells in vein graft remodeling.</a>	The pathophysiological mechanisms of the immune activation of smooth muscle cells are not well understood.
November 01, 2014	<a href="#">Acute reductions in mechanical wall strain precede the formation of intimal hyperplasia in a murine model of arterial occlusive disease</a>	OBJECTIVE: Intimal hyperplasia (IH) continues to plague the durability of vascular interventions.
May 01, 2014	<a href="#">Aortic valve sclerosis in mice deficient in endothelial nitric oxide synthase</a>	Risk factors for fibrocal- cific aortic valve disease (FCAVD) are associated with systemic decreases in bioavailability of endothelium-derived nitric
April 15, 2014	<a href="#">Exercise performance and peripheral vascular insufficiency improve with AMPK activation in high-fat diet-fed mice</a>	Intermittent claudication is a form of exercise intolerance characterized by muscle pain during walking in patients with peripheral artery disease (PA
January 01, 2014	<a href="#">Age-related vascular gene expression profiling in mice</a>	Increasing age involves a number of detrimental changes in the cardiovascular system and particularly on the large arteries.
January 01, 2014	<a href="#">Monitoring and staging abdominal aortic aneurysm disease with pulse wave imaging.</a>	The abdominal aortic aneurysm (AAA) is a silent and often deadly vascular disease caused by the localized weakening of the arterial wall.
November 01, 2013	<a href="#">Rhodamine-Loaded Intercellular Adhesion Molecule-1-targeted Microbubbles for Dual-Modality Imaging Under Controlled Shear Stresses</a>	BACKGROUND: The ability to image incipient atherosclerosis is based on the early events taking place at the endothelial level.

November 01, 2013	<a href="#">Development and optimization of near-IR contrast agents for immune cell tracking</a>	Gold nanorods (NRs) are attractive for in vivo imaging due to their high optical cross-sections and tunable absorbance.
July 15, 2013	<a href="#">Glucose-stimulated insulin secretion causes an insulin-dependent nitric oxide-mediated vasodilation in the blood supply of the rat sciatic nerve</a>	This study tested the hypothesis that acute hyperglycemia reduces sciatic nerve blood flow in Sprague-Dawley rats.
April 01, 2013	<a href="#">Enhanced Sonographic Imaging to Diagnose Lymph Node Metastasis: Importance of Blood Vessel Volume and Density</a>	Lymph node size is an important variable in ultrasound diagnosis of lymph node metastasis.
March 28, 2013	<a href="#">Mitochondrial activation by inhibition of PDKII suppresses HIF1a signaling and angiogenesis in cancer</a>	Most solid tumors are characterized by a metabolic shift from glucose oxidation to glycolysis, in part due to actively suppressed mitochondrial functi
January 01, 2013	<a href="#">Injection of Vessel-Derived Stem Cells Prevents Dilated Cardiomyopathy and Promotes Angiogenesis and Endogenous Cardiac Stem Cell Proliferation in mdx/utrn<sup>-/-</sup> but Not Aged mdx Mouse Models for Duchenne Muscular Dystrophy</a>	Duchenne muscular dystrophy (DMD) is the most common form of muscular dystrophy.
January 01, 2013	<a href="#">Molecular imaging of inflammation and platelet adhesion in advanced atherosclerosis effects of antioxidant therapy with NADPH oxidase inhibition.</a>	BACKGROUND: In atherosclerosis, local generation of reactive oxygen species amplifies the inflammatory response and contributes to plaque vulnerabilit
January 01, 2013	<a href="#">High and low frequency subharmonic imaging of angiogenesis in a murine breast cancer model</a>	This project compared quantifiable measures of tumor vascularity obtained from contrast-enhanced high frequency (HF) and low frequency (LF) subharmoni
December 01, 2012	<a href="#">Inhibition of Notch1 signaling reduces abdominal aortic aneurysm in mice by attenuating macrophage-mediated inflammation.</a>	OBJECTIVE: Activation of inflammatory pathways plays a critical role in the development of abdominal aortic aneurysms (AAA).



November 01, 2012	<a href="#">The Vascular Disrupting Agent STA-9584 Exhibits Potent Antitumor Activity by Selectively Targeting Microvasculature at Both the Center and Periphery of Tumors</a>	Vascular disrupting agents (VDAs) are an emerging class of therapeutics targeting the existing vascular network of solid tumors.
September 01, 2012	<a href="#">Y1R control of sciatic nerve blood flow in the Wistar Kyoto rat.</a>	We hypothesized that neuropeptide Y (NPY) exerts vasoconstrictor properties in sciatic nerve blood supply by a Y1 receptor (Y1R) mechanism.
August 01, 2012	<a href="#">Murine ultrasound imaging for circumferential strain analyses in the angiotensin II abdominal aortic aneurysm model</a>	OBJECTIVE: The underlying causes of abdominal aortic aneurysms (AAAs) remain obscure, although research tools such as the angiotensin II (Ang II) apol
July 06, 2012	<a href="#">Enhanced angiogenic and cardiomyocyte differentiation capacity of epigenetically reprogrammed mouse and human endothelial progenitor cells augments their efficacy for ischemic myocardial repair.</a>	RATIONALE: Although bone marrow endothelial progenitor cell (EPC)-based therapies improve the symptoms in patients with ischemic heart disease, their
June 26, 2012	<a href="#">Novel Single-Chain Antibody-Targeted Microbubbles for Molecular Ultrasound Imaging of Thrombosis: Validation of a Unique Noninvasive Method for Rapid and Sensitive Detection of Thrombi and Monitoring of Success or Failure of Thrombolysis in Mice</a>	BACKGROUND: Molecular imaging is a fast emerging technology allowing noninvasive detection of vascular pathologies.
April 03, 2012	<a href="#">Endothelial expression of hypoxia-inducible factor 1 protects the murine heart and aorta from pressure overload by suppression of TGF-<math>\beta</math> signaling.</a>	Chronic systemic hypertension causes cardiac pressure overload leading to increased myocardial O(2) consumption.
March 01, 2012	<a href="#">Low-dose metronomic oral dosing of a prodrug of gemcitabine (LY2334737) causes antitumor effects in the absence of inhibition of systemic vasculogenesis.</a>	Metronomic chemotherapy refers to the close, regular administration of conventional chemotherapy drugs at relatively low, minimally toxic doses, with
February 21, 2012	<a href="#">Gene Inactivation of Proprotein Convertase Subtilisin/Kexin Type 9 Reduces Atherosclerosis in Mice</a>	BACKGROUND: The proprotein convertase subtilisin/kexin type 9 (PCSK9) promotes independently of its enzymatic activity the degradation of the low-dens

February 01, 2012	<a href="#">Non-invasive in vivo analysis of a murine aortic graft using high resolution ultrasound microimaging.</a>	INTRODUCTION: As yet, murine aortic grafts have merely been monitored histopathologically.
January 01, 2011	<a href="#">Intravascular photoacoustic imaging of lipid in atherosclerotic plaques in the presence of luminal blood</a>	Intravascular photoacoustic (IVPA) imaging can characterize atherosclerotic plaque composition on the basis of the optical absorption contrast between
December 23, 2011	<a href="#">Molecular Imaging of Vasa Vasorum Neovascularization via DEspR-targeted Contrast-enhanced Ultrasound Micro-imaging in Transgenic Atherosclerosis Rat Model</a>	PURPOSE: Given that carotid vasa vasorum neovascularization is associated with increased risk for stroke and cardiac events, the present in vivo study
December 15, 2011	<a href="#">Bioengineered human vascular networks transplanted into secondary mice reconnect with the host vasculature and re-establish perfusion</a>	The ability to form anastomoses with the host circulation is essential for vascular networks incorporated within cell-seeded bioengineered tissues.
December 06, 2011	<a href="#">Imaging guided trials of the angiogenesis inhibitor sunitinib in mouse models predict efficacy in pancreatic neuroendocrine but not ductal carcinoma.</a>	Preclinical trials in mice represent a critical step in the evaluation of experimental therapeutics.
December 01, 2011	<a href="#">A critical role for macrophages in neovessel formation and the development of stenosis in tissue-engineered vascular grafts</a>	The primary graft-related complication during the first clinical trial evaluating the use of tissue-engineered vascular grafts (TEVGs) was stenosis.
November 15, 2011	<a href="#">Volumetric and Angiogenic Evaluation of Antitumor Effects with Acoustic Liposome and High-Frequency Ultrasound</a>	Acoustic liposomes (AL) have their inherent echogenicity and can add functionality in serving as drug carriers with tissue specificity.
October 11, 2011	<a href="#">Tissue-intrinsic dysfunction of circadian clock confers transplant arteriosclerosis</a>	The suprachiasmatic nucleus of the brain is the circadian center, relaying rhythmic environmental and behavioral information to peripheral tissues to
October 01, 2011	<a href="#">Regional and systemic hemodynamic responses following the creation of a murine arteriovenous fistula</a>	The study of hemodynamic alterations following the creation of an arteriovenous fistula (AVF) is relevant to vascular adaptive responses and hemodialy

September 08, 2011	<a href="#">Transcriptional profiling and network analysis of the murine angiotensin II-induced abdominal aortic aneurysm.</a>	We sought to characterize temporal gene expression changes in the murine angiotensin II (ANG II)-ApoE <sup>-/-</sup> model of abdominal aortic aneurysm (AAA).
July 01, 2011	<a href="#">Longitudinal common carotid artery wall motion is associated with plaque burden in man and mouse</a>	OBJECTIVE: Velocity vector imaging can be used to assess longitudinal common carotid artery (CCA) wall movement (tLoD) in man.
May 27, 2011	<a href="#">Calcific aortic valve stenosis: methods, models, and mechanisms.</a>	Calcific aortic valve stenosis (CAVS) is a major health problem facing aging societies.
March 01, 2011	<a href="#">HIF-1-dependent stromal adaptation to ischemia mediates in vivo tumor radiation resistance.</a>	PURPOSE: Hypoxia-inducible factor 1 (HIF-1) promotes cancer cell survival and tumor progression.
February 01, 2011	<a href="#">Influences of aortic motion and curvature on vessel expansion in murine experimental aneurysms.</a>	OBJECTIVE: To quantitatively compare aortic curvature and motion with resulting aneurysm location, direction of expansion, and pathophysiological feat
January 01, 2010	<a href="#">Micro-Ultrasonographic Imaging of Atherosclerotic Progression</a>	We studied prospectively whether atherosclerotic progression in apolipoprotein-E knock-out mice could be noninvasively and accurately measured by use
January 01, 2010	<a href="#">In vivo bioimaging as a novel strategy to detect doxorubicin-induced damage to gonadal blood vessels.</a>	INTRODUCTION: Chemotherapy may induce deleterious effects in normal tissues, leading to organ damage.
January 01, 2010	<a href="#">Micro-ultrasound for preclinical imaging</a>	Over the past decade, non-invasive preclinical imaging has emerged as an important tool to facilitate biomedical discovery.
November 15, 2010	<a href="#">A Critical Function of Th17 Proinflammatory Cells in the Development of Atherosclerotic Plaque in Mice</a>	Considerable evidence supports that the CD4(+) T cell-mediated immune response contributes to the development of atherosclerotic plaque.
June 01, 2010	<a href="#">Aortic regurgitation dramatically alters the distribution of atherosclerotic lesions and enhances atherogenesis in mice.</a>	OBJECTIVE: Hemodynamics plays a critical role in atherogenesis, but the association between flow pattern and preferential localization of lesion is no

May 01, 2010	<a href="#">Torcetrapib produces endothelial dysfunction independent of cholesteryl ester transfer protein inhibition.</a>	OBJECTIVE: Torcetrapib, a prototype cholesteryl ester transfer protein (CETP) inhibitor with potential for decreasing atherosclerotic disease, increases
January 01, 2009	<a href="#">Antiangiogenic Cancer Therapy : Monitoring with Molecular US and a Clinically Translatable Contrast Purpose : Methods : Results :</a>	Purpose: Materials and Methods: To develop and test human kinase insert domain receptor (KDR)-targeted microbubbles (MBs) (MB KDR ) for imaging KDR at
October 01, 2009	<a href="#">Partial carotid ligation is a model of acutely induced disturbed flow, leading to rapid endothelial dysfunction and atherosclerosis.</a>	Atherosclerosis is closely associated with disturbed flow characterized by low and oscillatory shear stress, but studies directly linking disturbed fl
September 01, 2008	<a href="#">Dual-targeted Contrast Agent for US Assessment of Tumor Angiogenesis in Vivo</a>	Purpose: To develop and validate a dual-targeted ultrasound imaging agent that attaches to both vascular endothelial growth factor receptor-2 (VEGFR2)
March 01, 2008	<a href="#">Micro-ultrasound imaging assessment of carotid plaque characteristics in apolipoprotein-E knockout mice.</a>	This study was aimed to test the hypothesis that noninvasive assessment of carotid plaques can be achieved by high-resolution micro-ultrasound imaging
February 01, 2008	<a href="#">In vivo measurement of flow-mediated vasodilation in living rats using high-resolution ultrasound.</a>	In humans, endothelial vasodilator function serves as a surrogate marker for cardiovascular health and is measured as changes in conduit artery diamet
January 01, 2008	<a href="#">High-Resolution Ultrasound Perfusion Imaging of Therapeutic Angiogenesis</a>	OBJECTIVES: The purpose of this study was to test the feasibility of contrast pulse sequence (CPS) ultrasound imaging for high-resolution perfusion im
January 01, 2008	<a href="#">Targeted Microbubbles for Imaging Tumor Angiogenesis: assessment of whole body biodistribution with dynamic micro-PET in mice.</a>	Purpose: Materials and Methods: Results: Conclusion: To evaluate in vivo whole-body biodistribution of micro- bubbles (MBs) targeted to tumor angiogen

December 15, 2007	<a href="#">Vitamin E analogues inhibit angiogenesis by selective induction of apoptosis in proliferating endothelial cells: the role of oxidative stress.</a>	"Mitocans" from the vitamin E group of selective anticancer drugs, alpha-tocopheryl succinate (alpha-TOS) and its ether analogue alpha-TEA, triggered
August 01, 2007	<a href="#">Detecting vascular changes in tumour xenografts using micro-ultrasound and micro-ct following treatment with VEGFR-2 blocking antibodies.</a>	Blockade of vascular endothelial growth factor (VEGF) binding to its receptors on endothelial cells has been shown preclinically to induce tumour grow
February 01, 2007	<a href="#">Non-invasive real-time imaging of atherosclerosis in mice using ultrasound biomicroscopy.</a>	There are increasing needs to develop imaging techniques to study in vivo vascular morphology and function in various mouse models of atherosclerosis.
January 01, 2007	<a href="#">Ex vivo Characterization of Atherosclerosis using Intravascular Photoacoustic Imaging.</a>	The imaging of plaque composition represents one of the important steps in the interventional management of atherosclerosis.
January 01, 2007	<a href="#">Molecular Imaging of Vascular Endothelial Growth Factor Receptor 2 Expression using targeted contrast enhanced High frequency ultrasonography</a>	The aim of our study was to investigate the use of targeted contrast-enhanced high-frequency ultrasonography for molecular imaging of vascular endot
May 26, 2006	<a href="#">Developmental changes in hemodynamics of uterine artery, utero- and umbilicoplacental, and vitelline circulations in mouse throughout gestation</a>	In human pregnancy, abnormal placental hemodynamics likely contribute to the etiology of early-onset preeclampsia and fetal intrauterine growth restri
July 01, 2005	<a href="#">Quantitation of hemodynamic function during developmental vascular regression in the mouse eye.</a>	PURPOSE: Ultrasound biomicroscopy (UBM) utilizes frequencies higher than conventional diagnostic ultrasound and can noninvasively provide anatomic and