Keith Channon

List of Publications by Year in Descending Order

335 papers	18,970 citations	77 h-index	125 g-index
368 ext. papers	22,151 ext. citations	8.3 avg, IF	6.51 L-index

#	Paper	IF	Citations
335	Rapid neutrophil mobilisation by VCAM-1+ endothelial extracellular vesicles.. *Cardiovascular Research*, **2022**,	9.9	4
334	A Randomized, double-blind, dose ranging clinical trial of intravenous FDY-5301 in acute STEMI patients undergoing primary PCI. *International Journal of Cardiology*, **2022**, 347, 1-7	3.2	0
333	Tetrahydrobiopterin and Nitric Oxide Synthase Recouplers. *Handbook of Experimental Pharmacology*, **2021**, 264, 339-352	3.2	3
332	Risks of myocarditis, pericarditis, and cardiac arrhythmias associated with COVID-19 vaccination or SARS-CoV-2 infection.. *Nature Medicine*, **2021**,	50.5	60
331	A large National Institute for Health Research (NIHR) Biomedical Research Centre facilitates impactful cross-disciplinary and collaborative translational research publications and research collaboration networks: a bibliometric evaluation study. *Journal of Translational Medicine*, **2021**, 19, 483	8.5	0
330	Endothelial GTPCH (GTP Cyclohydrolase 1) and Tetrahydrobiopterin Regulate Gestational Blood Pressure, Uteroplacental Remodeling, and Fetal Growth. *Hypertension*, **2021**, 78, 1871-1884	8.5	0
329	When the genome bluffs: a tandem duplication event during generation of a novel Agmo knockout mouse model fools routine genotyping. *Cell and Bioscience*, **2021**, 11, 54	9.8	5
328	Thymosin 4 protects against aortic aneurysm via endocytic regulation of growth factor signaling. *Journal of Clinical Investigation*, **2021**, 131,	15.9	2
327	BH4 Increases nNOS Activity and Preserves Left Ventricular Function in Diabetes. *Circulation Research*, **2021**, 128, 585-601	15.7	4
326	Pressure-bounded coronary flow reserve to assess the extent of microvascular dysfunction in patients with ST-elevation acute myocardial infarction. *EuroIntervention*, **2021**, 16, 1434-1443	3.1	0
325	Coronary Microvascular Dysfunction Assessed by Pressure Wire and CMR After STEMI Predicts Long-Term Outcomes. *JACC: Cardiovascular Imaging*, **2021**, 14, 1948-1959	8.4	6
324	External stenting and disease progression in saphenous vein grafts two years after coronary artery bypass grafting: A multicenter randomized trial. *Journal of Thoracic and Cardiovascular Surgery*, **2021**,	1.5	5
323	A titan of Cardiovascular Research: Professor Peter Sleight (1929-2020). *Cardiovascular Research*, **2021**, 117, e64-e66	9.9	
322	Angiography-derived index of microcirculatory resistance (IMR) as a novel pressure-wire-free tool to assess coronary microvascular dysfunction in acute coronary syndromes and stable coronary artery disease. *International Journal of Cardiovascular Imaging*, **2021**, 37, 1801-1813	2.5	5
321	Fat-Secreted Ceramides Regulate Vascular Redox State and Influence Outcomes in Patients With Cardiovascular Disease. *Journal of the American College of Cardiology*, **2021**, 77, 2494-2513	15.1	17
320	CD200 Limits Monopoiesis and Monocyte Recruitment in Atherosclerosis. *Circulation Research*, **2021**, 129, 280-295	15.7	3
319	Timing of cardiovascular magnetic resonance in clinical trials evaluating cardioprotective therapies to reduce infarct size. *International Journal of Cardiology*, **2021**, 323, 272-274	3.2	

318	Oxidation of Protein Kinase A Regulatory Subunit PKARIProtects Against Myocardial Ischemia-Reperfusion Injury by Inhibiting Lysosomal-Triggered Calcium Release. *Circulation*, **2021**, 143, 449-465	16.7	14
317	Medium-term effects of SARS-CoV-2 infection on multiple vital organs, exercise capacity, cognition, quality of life and mental health, post-hospital discharge. *EClinicalMedicine*, **2021**, 31, 100683	11.3	164
316	Effects of canagliflozin on human myocardial redox signalling: clinical implications. *European Heart Journal*, **2021**,	9.5	14
315	Standardized measurement of coronary inflammation using cardiovascular computed tomography: integration in clinical care as a prognostic medical device. *Cardiovascular Research*, **2021**, 117, 2677-2690	9.9	4
314	Hepatic miR-144 Drives Fumarase Activity Preventing NRF2 Activation During Obesity. *Gastroenterology*, **2021**, 161, 1982-1997.e11	13.3	7
313	Hyperglycemia Induces Trained Immunity in Macrophages and Their Precursors and Promotes Atherosclerosis. *Circulation*, **2021**, 144, 961-982	16.7	18
312	Long-Term Clinical Outcomes in Patients With an Acute ST-Segment-Elevation Myocardial Infarction Stratified by Angiography-Derived Index of Microcirculatory Resistance. *Frontiers in Cardiovascular Medicine*, **2021**, 8, 717114	5.4	1
311	Pre-procedural ATI score (age-thrombus burden-index of microcirculatory resistance) predicts long-term clinical outcomes in patients with ST elevation myocardial infarction treated with primary percutaneous coronary intervention. *International Journal of Cardiology*, **2021**, 339, 1-6	3.2	0
310	Paracrine signalling by cardiac calcitonin controls atrial fibrogenesis and arrhythmia. *Nature*, **2020**, 587, 460-465	50.4	19
309	Angiography-derived index of microcirculatory resistance as a novel, pressure-wire-free tool to assess coronary microcirculation in ST elevation myocardial infarction. *International Journal of Cardiovascular Imaging*, **2020**, 36, 1395-1406	2.5	21
308	Opportunities and challenges of implementing computed tomography fractional flow reserve into clinical practice. *Heart*, **2020**, 106, 1387-1393	5.1	4
307	Reflectance spectral analysis for novel characterization and clinical assessment of aspirated coronary thrombi in patients with ST elevation myocardial infarction. *Physiological Measurement*, **2020**, 41, 045001	2.9	1
306	Insulin-induced vascular redox dysregulation in human atherosclerosis is ameliorated by dipeptidyl peptidase 4 inhibition. *Science Translational Medicine*, **2020**, 12,	17.5	7
305	Isolation and culture of murine bone marrow-derived macrophages for nitric oxide and redox biology. *Nitric Oxide - Biology and Chemistry*, **2020**, 100-101, 17-29	5	11
304	Abstract 16467: A Novel CT-derived Radiotranscriptomic Signature of Perivascular Adipose Tissue Stratifies COVID-19 Vascular Cytokine Burst and Predicts in Hospital Outcomes. *Circulation*, **2020**, 142,	16.7	1
303	Hyper-acute cardiovascular magnetic resonance T1 mapping predicts infarct characteristics in patients with ST elevation myocardial infarction. *Journal of Cardiovascular Magnetic Resonance*, **2020**, 22, 3	6.9	5
302	The cardiac sympathetic co-transmitter neuropeptide Y is pro-arrhythmic following ST-elevation myocardial infarction despite beta-blockade. *European Heart Journal*, **2020**, 41, 2168-2179	9.5	27
301	Perivascular Fat Attenuation Index Stratifies Cardiac Risk Associated With High-Risk Plaques in theCRISP-CT Study. *Journal of the American College of Cardiology*, **2020**, 76, 755-757	15.1	21

300	Risk of severe COVID-19 disease with ACE inhibitors and angiotensin receptor blockers: cohort study including 8.3 million people. *Heart*, **2020**, 106, 1503-1511	5.1	174
299	Atrial nitroso-redox balance and refractoriness following on-pump cardiac surgery: A randomised trial of atorvastatin. *Cardiovascular Research*, **2020**,	9.9	1
298	A key role for the novel coronary artery disease gene JCAD in atherosclerosis via shear stress mechanotransduction. *Cardiovascular Research*, **2020**, 116, 1863-1874	9.9	7
297	A novel machine learning-derived radiotranscriptomic signature of perivascular fat improves cardiac risk prediction using coronary CT angiography. *European Heart Journal*, **2019**, 40, 3529-3543	9.5	127
296	Adipose tissue-derived WNT5A regulates vascular redox signaling in obesity via USP17/RAC1-mediated activation of NADPH oxidases. *Science Translational Medicine*, **2019**, 11,	17.5	33
295	Acute Microvascular Impairment Post-Reperfused STEMI Is Reversible and Has Additional Clinical Predictive Value: A CMR OxAMI Study. *JACC: Cardiovascular Imaging*, **2019**, 12, 1783-1793	8.4	14
294	Safety of Rotational Atherectomy Using the Radial Access in Patients With Severe Aortic Stenosis. *American Journal of Cardiology*, **2019**, 124, 381-388	3	1
293	Electronic Health Informatics Data To Describe Clearance Dynamics of Hepatitis B Surface Antigen (HBsAg) and e Antigen (HBeAg) in Chronic Hepatitis B Virus Infection. *MBio*, **2019**, 10,	7.8	19
292	The Impact of Blood Pressure Variability on Coronary Arterial Lumen Dimensions as Assessed by Optical Coherence Tomography in Patients with ST-Elevation Myocardial Infarction. *Cardiovascular Revascularization Medicine*, **2019**, 20, 768-774	1.6	1
291	Dual quantitative coronary angiography accurately quantifies intracoronary thrombotic burden in patients with acute coronary syndrome: Comparison with optical coherence tomography imaging. *International Journal of Cardiology*, **2019**, 292, 25-31	3.2	5
290	Neuropeptide-Y causes coronary microvascular constriction and is associated with reduced ejection fraction following ST-elevation myocardial infarction. *European Heart Journal*, **2019**, 40, 1920-1929	9.5	28
289	Phospholipid membranes drive abdominal aortic aneurysm development through stimulating coagulation factor activity. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 8038-8047	11.5	15
288	Incremental Value of Coronary Microcirculation Resistive Reserve Ratio in Predicting the Extent of Myocardial Infarction in Patients with STEMI. Insights from the Oxford Acute Myocardial Infarction (OxAMI) Study. *Cardiovascular Revascularization Medicine*, **2019**, 20, 1148-1155	1.6	14
287	Nitric Oxide Modulates Metabolic Remodeling in Inflammatory Macrophages through TCA Cycle Regulation and Itaconate Accumulation. *Cell Reports*, **2019**, 28, 218-230.e7	10.6	77
286	A macroeconomic assessment of the impact of medical research expenditure: A case study of NIHR Biomedical Research Centres. *PLoS ONE*, **2019**, 14, e0214361	3.7	2
285	Nox2 contributes to age-related oxidative damage to neurons and the cerebral vasculature. *Journal of Clinical Investigation*, **2019**, 129, 3374-3386	15.9	40
284	Combined T1-mapping and tissue tracking analysis predicts severity of ischemic injury following acute STEMI-an Oxford Acute Myocardial Infarction (OxAMI) study. *International Journal of Cardiovascular Imaging*, **2019**, 35, 1297-1308	2.5	6
283	Mast cell tetrahydrobiopterin contributes to itch in mice. *Journal of Cellular and Molecular Medicine*, **2019**, 23, 985-1000	5.6	4

282	Index of Microcirculatory Resistance as a Tool to Characterize Microvascular Obstruction and to Predict Infarct Size Regression in Patients With STEMI Undergoing Primary PCI. *JACC: Cardiovascular Imaging*, **2019**, 12, 837-848	8.4	32
281	Gadolinium-Free Cardiac MR Stress T1-Mapping to Distinguish Epicardial From Microvascular Coronary Disease. *Journal of the American College of Cardiology*, **2018**, 71, 957-968	15.1	56
280	Diagnosis of Microvascular Angina Using Cardiac Magnetic Resonance. *Journal of the American College of Cardiology*, **2018**, 71, 969-979	15.1	74
279	Vascular wall regulator of G-protein signalling-1 (RGS-1) is required for angiotensin II-mediated blood pressure control. *Vascular Pharmacology*, **2018**, 108, 15-22	5.9	7
278	Metabolomic Profiling in Acute ST-Segment-Elevation Myocardial Infarction Identifies Succinate as an Early Marker of Human Ischemia-Reperfusion Injury. *Journal of the American Heart Association*, **2018**, 7,	6	45
277	Roles for endothelial cell and macrophage Gch1 and tetrahydrobiopterin in atherosclerosis progression. *Cardiovascular Research*, **2018**, 114, 1385-1399	9.9	25
276	Effects Of Endothelin-1 On Intracellular Tetrahydrobiopterin Levels In Vascular Tissue. *Scandinavian Cardiovascular Journal*, **2018**, 52, 163-169	2	4
275	Metabolic Regulation of Adipose Tissue Macrophage Function in Obesity and Diabetes. *Antioxidants and Redox Signaling*, **2018**, 29, 297-312	8.4	56
274	Effect of irradiation and bone marrow transplantation on angiotensin II-induced aortic inflammation in ApoE knockout mice. *Atherosclerosis*, **2018**, 276, 74-82	3.1	6
273	Non-invasive detection of coronary inflammation using computed tomography and prediction of residual cardiovascular risk (the CRISP CT study): a post-hoc analysis of prospective outcome data. *Lancet, The*, **2018**, 392, 929-939	40	255
272	3D reconstruction of coronary arteries from 2D angiographic projections using non-uniform rational basis splines (NURBS) for accurate modelling of coronary stenoses. *PLoS ONE*, **2018**, 13, e0190650	3.7	24
271	Long-term performance of an external stent for saphenous vein grafts: the VEST IV trial. *Journal of Cardiothoracic Surgery*, **2018**, 13, 117	1.6	31
270	The metabolite BH4 controls T cell proliferation in autoimmunity and cancer. *Nature*, **2018**, 563, 564-568	50.4	103
269	Dynamic changes in injured myocardium, very early after acute myocardial infarction, quantified using T1 mapping cardiovascular magnetic resonance. *Journal of Cardiovascular Magnetic Resonance*, **2018**, 20, 82	6.9	8
268	Regulation of mycobacterial infection by macrophage Gch1 and tetrahydrobiopterin. *Nature Communications*, **2018**, 9, 5409	17.4	15
267	Neonatal Micro-RNA Profile Determines Endothelial Function in Offspring of Hypertensive Pregnancies. *Hypertension*, **2018**, 72, 937-945	8.5	16
266	Tetrahydrobiopterin modulates ubiquitin conjugation to UBC13/UBE2N and proteasome activity by S-nitrosation. *Scientific Reports*, **2018**, 8, 14310	4.9	5
265	JCAD, a Gene at the 10p11 Coronary Artery Disease Locus, Regulates Hippo Signaling in Endothelial Cells. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2018**, 38, 1711-1722	9.4	19

264	Endothelial Cell Tetrahydrobiopterin Modulates Sensitivity to Ang (Angiotensin) II-Induced Vascular Remodeling, Blood Pressure, and Abdominal Aortic Aneurysm. *Hypertension*, **2018**, 72, 128-138	8.5	13
263	A key role for tetrahydrobiopterin-dependent endothelial NOS regulation in resistance arteries: studies in endothelial cell tetrahydrobiopterin-deficient mice. *British Journal of Pharmacology*, **2017**, 174, 657-671	8.6	29
262	A Genomic DNA Reporter Screen Identifies Squalene Synthase Inhibitors That Act Cooperatively with Statins to Upregulate the Low-Density Lipoprotein Receptor. *Journal of Pharmacology and Experimental Therapeutics*, **2017**, 361, 417-428	4.7	2
261	Predictive value of telomere length on outcome following acute myocardial infarction: evidence for contrasting effects of vascular vs. blood oxidative stress. *European Heart Journal*, **2017**, 38, 3094-3104	9.5	36
260	A novel role for endothelial tetrahydrobiopterin in mitochondrial redox balance. *Free Radical Biology and Medicine*, **2017**, 104, 214-225	7.8	34
259	Tracking Monocyte Recruitment and Macrophage Accumulation in Atherosclerotic Plaque Progression Using a Novel hCD68GFP/ApoE-/- Reporter Mouse-Brief Report. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2017**, 37, 258-263	9.4	16
258	Maximising value from a United Kingdom Biomedical Research Centre: study protocol. *Health Research Policy and Systems*, **2017**, 15, 70	3.7	18
257	The Subcellular Localisation of Neuronal Nitric Oxide Synthase Determines the Downstream Effects of NO on Myocardial Function. *Cardiovascular Research*, **2017**, 113, 321-331	9.9	14
256	The influence of coronary plaque morphology assessed by optical coherence tomography on final microvascular function after stenting in patients with ST-elevation myocardial infarction. *Coronary Artery Disease*, **2017**, 28, 198-208	1.4	3
255	Detecting human coronary inflammation by imaging perivascular fat. *Science Translational Medicine*, **2017**, 9,	17.5	285
254	CMR Native T1 Mapping Allows Differentiation of Reversible Versus Irreversible Myocardial Damage in ST-Segment-Elevation Myocardial Infarction: An OxAMI Study (Oxford Acute Myocardial Infarction). *Circulation: Cardiovascular Imaging*, **2017**, 10,	3.9	56
253	Index of Microcirculatory Resistance at the Time of Primary Percutaneous Coronary Intervention Predicts Early Cardiac Complications: Insights From the OxAMI (Oxford Study in Acute Myocardial Infarction) Cohort. *Journal of the American Heart Association*, **2017**, 6,	6	17
252	022 Novel perfusion CMR reference standard for the objective diagnosis of microcirculatory dysfunction validation against prognostic invasive markers of coronary physiology. *Heart*, **2017**, 103, A18-A18	5.1	
251	Mammalian AMPK regulates intrinsic heart rate. *Nature Communications*, **2017**, 8, 1258	17.4	24
250	A novel workflow combining plaque imaging, plaque and plasma proteomics identifies biomarkers of human coronary atherosclerotic plaque disruption. *Clinical Proteomics*, **2017**, 14, 22	5	10
249	Does a biomedical research centre affect patient care in local hospitals?. *Health Research Policy and Systems*, **2017**, 15, 2	3.7	8
248	Splenic T1-mapping: a novel quantitative method for assessing adenosine stress adequacy for cardiovascular magnetic resonance. *Journal of Cardiovascular Magnetic Resonance*, **2017**, 19, 1	6.9	47
247	A Endothelium-derived extracellular vesicles promote splenic monocyte mobilisation in myocardial infarction. *Heart*, **2017**, 103, A150.1-A150	5.1	

246	Endothelium-derived extracellular vesicles promote splenic monocyte mobilization in myocardial infarction. *JCI Insight*, **2017**, 2,	9.9	46
245	The ATI score (age-thrombus burden-index of microcirculatory resistance) determined during primary percutaneous coronary intervention predicts final infarct size in patients with ST-elevation myocardial infarction: a cardiac magnetic resonance validation study. *EuroIntervention*, **2017**, 13, 935-943	3.1	18
244	Association of Maternal Antiangiogenic Profile at Birth With Early Postnatal Loss of Microvascular Density in Offspring of Hypertensive Pregnancies. *Hypertension*, **2016**, 68, 749-59	8.5	31
243	Episomal Nonviral Gene Therapy Vectors Slow Progression of Atherosclerosis in a Model of Familial Hypercholesterolemia. *Molecular Therapy - Nucleic Acids*, **2016**, 5, e383	10.7	5
242	Markers of achievement for assessing and monitoring gender equity in translational research organisations: a rationale and study protocol. *BMJ Open*, **2016**, 6, e009022	3	14
241	Mutual Regulation of Epicardial Adipose Tissue and Myocardial Redox State by PPAR-γ/Adiponectin Signalling. *Circulation Research*, **2016**, 118, 842-55	15.7	92
240	OCT imaging of aorto-coronary vein graft pathology modified by external stenting: 1-year post-surgery. *European Heart Journal Cardiovascular Imaging*, **2016**, 17, 1290-1295	4.1	21
239	Activation of endothelial NAD(P)H oxidase accelerates early glomerular injury in diabetic mice. *Laboratory Investigation*, **2016**, 96, 25-36	5.9	25
238	Endothelial cell tetrahydrobiopterin deficiency attenuates LPS-induced vascular dysfunction and hypotension. *Vascular Pharmacology*, **2016**, 77, 69-79	5.9	13
237	Refining the Enrolment Process in Emergency Medicine Research. *The European Journal of Cardiovascular Medicine*, **2016**, 4, 506-510		6
236	A tool for predicting the outcome of reperfusion in ST-elevation myocardial infarction using age, thrombotic burden and index of microcirculatory resistance (ATI score). *EuroIntervention*, **2016**, 12, 1223-1230	3.1	20
235	Acute exposure to apolipoprotein A1 inhibits macrophage chemotaxis in vitro and monocyte recruitment in vivo. *ELife*, **2016**, 5,	8.9	35
234	A global call for action to include gender in research impact assessment. *Health Research Policy and Systems*, **2016**, 14, 50	3.7	62
233	Tetrahydrobiopterin Protects Against Hypertrophic Heart Disease Independent of Myocardial Nitric Oxide Synthase Coupling. *Journal of the American Heart Association*, **2016**, 5, e003208	6	19
232	Tetrahydrobiopterin and alkylglycerol monooxygenase substantially alter the murine macrophage lipidome. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 2431-6	11.5	41
231	Flow patterns in externally stented saphenous vein grafts and development of intimal hyperplasia. *Journal of Thoracic and Cardiovascular Surgery*, **2015**, 150, 871-8	1.5	44
230	Acute myocardial infarction activates distinct inflammation and proliferation pathways in circulating monocytes, prior to recruitment, and identified through conserved transcriptional responses in mice and humans. *European Heart Journal*, **2015**, 36, 1923-34	9.5	57
229	Regulation of iNOS function and cellular redox state by macrophage Gch1 reveals specific requirements for tetrahydrobiopterin in NRF2 activation. *Free Radical Biology and Medicine*, **2015**, 79, 206-16	7.8	79

228	Parkinson's disease in GTP cyclohydrolase 1 mutation carriers. *Brain*, **2015**, 138, e348	11.2	4
227	Reduction of Neuropathic and Inflammatory Pain through Inhibition of the Tetrahydrobiopterin Pathway. *Neuron*, **2015**, 86, 1393-406	13.9	76
226	Redox biomarkers in cardiovascular medicine. *European Heart Journal*, **2015**, 36, 1576-82, 1582a-b	9.5	42
225	A Randomized Trial of External Stenting for Saphenous Vein Grafts in Coronary Artery Bypass Grafting. *Annals of Thoracic Surgery*, **2015**, 99, 2039-45	2.7	63
224	Zero-Flow Pressure Measured Immediately After Primary Percutaneous Coronary Intervention for ST-Segment Elevation Myocardial Infarction Provides the Best Invasive Index for Predicting the Extent of Myocardial Infarction at 6 Months: An OxAMI Study (Oxford Acute Myocardial Infarction). *JACC: Cardiovascular Interventions*, **2015**, 8, 1410-1421	5	35
223	How does coronary stent implantation impact on the status of the microcirculation during primary percutaneous coronary intervention in patients with ST-elevation myocardial infarction?. *European Heart Journal*, **2015**, 36, 3165-77	9.5	60
222	CXCR2 modulates bone marrow vascular repair and haematopoietic recovery post-transplant. *British Journal of Haematology*, **2015**, 169, 552-64	4.5	7
221	Hydrodynamic Gene Delivery of CC Chemokine Binding Fc Fusion Proteins to Target Acute Vascular Inflammation In Vivo. *Scientific Reports*, **2015**, 5, 17404	4.9	4
220	RGS1 regulates myeloid cell accumulation in atherosclerosis and aortic aneurysm rupture through altered chemokine signalling. *Nature Communications*, **2015**, 6, 6614	17.4	29
219	Reducing In-Stent Restenosis: Therapeutic Manipulation of miRNA in Vascular Remodeling and Inflammation. *Journal of the American College of Cardiology*, **2015**, 65, 2314-27	15.1	77
218	Hydroxychloroquine reduces heart rate by modulating the hyperpolarization-activated current If: Novel electrophysiological insights and therapeutic potential. *Heart Rhythm*, **2015**, 12, 2186-94	6.7	92
217	A requirement for Gch1 and tetrahydrobiopterin in embryonic development. *Developmental Biology* , **2015**, 399, 129-138	3.1	18
216	Cord and Cord Blood-derived Endothelial Cells **2015**, 49-61		1
215	Adiponectin as a link between type 2 diabetes and vascular NADPH oxidase activity in the human arterial wall: the regulatory role of perivascular adipose tissue. *Diabetes*, **2015**, 64, 2207-19	0.9	149
214	Polybacterial Periodontal Pathogens Alter Vascular and Gut BH4/nNOS/NRF2-Phase II Enzyme Expression. *PLoS ONE*, **2015**, 10, e0129885	3.7	18
213	Endothelial cell-specific reactive oxygen species production increases susceptibility to aortic dissection. *Circulation*, **2014**, 129, 2661-72	16.7	77
212	Early change in invasive measures of microvascular function can predict myocardial recovery following PCI for ST-elevation myocardial infarction. *European Heart Journal*, **2014**, 35, 1971-80	9.5	52
211	□Synuclein and mitochondrial bioenergetics regulate tetrahydrobiopterin levels in a human dopaminergic model of Parkinson disease. *Free Radical Biology and Medicine*, **2014**, 67, 58-68	7.8	24

210	Statins: pleiotropic regulators of cardiovascular redox state. *Antioxidants and Redox Signaling*, **2014**, 20, 1195-7	8.4	11
209	Impact of microvascular obstruction on the assessment of coronary flow reserve, index of microcirculatory resistance, and fractional flow reserve after ST-segment elevation myocardial infarction. *Journal of the American College of Cardiology*, **2014**, 64, 1894-904	15.1	99
208	Cell-autonomous role of endothelial GTP cyclohydrolase 1 and tetrahydrobiopterin in blood pressure regulation. *Hypertension*, **2014**, 64, 530-40	8.5	41
207	Statins as regulators of redox state in the vascular endothelium: beyond lipid lowering. *Antioxidants and Redox Signaling*, **2014**, 20, 1198-215	8.4	85
206	Tetrahydrobiopterin in cardiovascular health and disease. *Antioxidants and Redox Signaling*, **2014**, 20, 3040-77	8.4	140
205	GTP cyclohydrolase I prevents diabetic-impaired endothelial progenitor cells and wound healing by suppressing oxidative stress/thrombospondin-1. *American Journal of Physiology - Endocrinology and Metabolism*, **2014**, 306, E1120-31	6	20
204	The pathogenesis of atherosclerosis. *Medicine*, **2014**, 42, 480-484	0.6	20
203	71 Percutaneous Coronary Intervention (PCI) Risk Scores Predicting Inpatient Mortality and Major Adverse Cardiac Events (MACE) are Poorly Concordant in High Risk Patients. *Heart*, **2014**, 100, A41.2-A42	5.1	2
202	Human CD68 promoter GFP transgenic mice allow analysis of monocyte to macrophage differentiation in vivo. *Blood*, **2014**, 124, e33-44	2.2	61
201	Crucial role for neuronal nitric oxide synthase in early microcirculatory derangement and recipient survival following murine pancreas transplantation. *PLoS ONE*, **2014**, 9, e112570	3.7	5
200	Oxido-reductive regulation of vascular remodeling by receptor tyrosine kinase ROS1. *Journal of Clinical Investigation*, **2014**, 124, 5159-74	15.9	30
199	Contrasting in vitro vs. in vivo effects of a cell membrane-specific CC-chemokine binding protein on macrophage chemotaxis. *Journal of Molecular Medicine*, **2014**, 92, 1169-78	5.5	4
198	Fractalkine promotes human monocyte survival via a reduction in oxidative stress. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2014**, 34, 2554-62	9.4	42
197	A GCH1 haplotype confers sex-specific susceptibility to pain crises and altered endothelial function in adults with sickle cell anemia. *American Journal of Hematology*, **2014**, 89, 187-93	7.1	31
196	Reciprocal effects of systemic inflammation and brain natriuretic peptide on adiponectin biosynthesis in adipose tissue of patients with ischemic heart disease. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2014**, 34, 2151-9	9.4	69
195	Overexpression of GTP cyclohydrolase 1 feedback regulatory protein is protective in a murine model of septic shock. *Shock*, **2014**, 42, 432-9	3.4	7
194	Effects of tetrahydrobiopterin oral treatment in hypoxia-induced pulmonary hypertension in rat. *Pulmonary Circulation*, **2014**, 4, 462-70	2.7	15
193	Effects of heparin on temporal microRNA profiles. *Journal of the American College of Cardiology*, **2014**, 63, 940-1	15.1	16

192	Angiogenesis in the infarcted myocardium. *Antioxidants and Redox Signaling*, **2013**, 18, 1100-13	8.4	164
191	Integrated redox sensor and effector functions for tetrahydrobiopterin- and glutathionylation-dependent endothelial nitric-oxide synthase uncoupling. *Journal of Biological Chemistry*, **2013**, 288, 561-9	5.4	64
190	Heparin administration leads to rapid decrease in plasma matrix metalloproteinase-9. *International Journal of Cardiology*, **2013**, 163, 212-3	3.2	1
189	Myocardial protection by co-administration of L-arginine and tetrahydrobiopterin during ischemia and reperfusion. *International Journal of Cardiology*, **2013**, 169, 83-8	3.2	10
188	Artifactual elevation of plasma sCD40L by residual platelets in patients with coronary artery disease. *International Journal of Cardiology*, **2013**, 168, 1648-50	3.2	9
187	Nox2 NADPH oxidase has a critical role in insulin resistance-related endothelial cell dysfunction. *Diabetes*, **2013**, 62, 2130-4	0.9	100
186	Interactions between vascular wall and perivascular adipose tissue reveal novel roles for adiponectin in the regulation of endothelial nitric oxide synthase function in human vessels. *Circulation*, **2013**, 127, 2209-21	16.7	197
185	Endothelial cell repopulation after stenting determines in-stent neointima formation: effects of bare-metal vs. drug-eluting stents and genetic endothelial cell modification. *European Heart Journal* , **2013**, 34, 3378-88	9.5	50
184	Relationship of plasma neuropeptide Y with angiographic, electrocardiographic and coronary physiology indices of reperfusion during ST elevation myocardial infarction. *Heart*, **2013**, 99, 1198-203	5.1	31
183	The downstream regulation of chemokine receptor signalling: implications for atherosclerosis. *Mediators of Inflammation*, **2013**, 2013, 459520	4.3	23
182	Maintenance of endothelial guanosine triphosphate cyclohydrolase I ameliorates diabetic nephropathy. *Journal of the American Society of Nephrology: JASN*, **2013**, 24, 1139-50	12.7	26
181	A pivotal role for tryptophan 447 in enzymatic coupling of human endothelial nitric oxide synthase (eNOS): effects on tetrahydrobiopterin-dependent catalysis and eNOS dimerization. *Journal of Biological Chemistry*, **2013**, 288, 29836-45	5.4	17
180	Tetrahydrobiopterin determines vascular remodeling through enhanced endothelial cell survival and regeneration. *Circulation*, **2013**, 128, S50-S58	16.7	15
179	Living without creatine: unchanged exercise capacity and response to chronic myocardial infarction in creatine-deficient mice. *Circulation Research*, **2013**, 112, 945-55	15.7	81
178	A real time chemotaxis assay unveils unique migratory profiles amongst different primary murine macrophages. *PLoS ONE*, **2013**, 8, e58744	3.7	25
177	Impact of intravenous heparin on quantification of circulating microRNAs in patients with coronary artery disease. *Thrombosis and Haemostasis*, **2013**, 110, 609-15	7	75
176	Treatment of recurrent vein graft "stent-in-stent" re-stenosis guided by optical coherence tomography. *International Journal of Cardiology*, **2012**, 156, e20-1	3.2	2
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