

Dirk Jan Duncker

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

221 papers	6,605 citations	41 h-index	74 g-index
244 ext. papers	7,990 ext. citations	6.6 avg, IF	5.82 L-index

#	Paper	IF	Citations
221	Animal models and animal-free innovations for cardiovascular research: current status and routes to be explored. Consensus document of the ESC working group on myocardial function and the ESC Working Group on Cellular Biology of the Heart.. <i>Cardiovascular Research</i> , 2022 ,	9.9	3
220	Preregistration of animal research protocols: development and 3-year overview of preclinicaltrials.eu.. <i>BMJ Open Science</i> , 2022 , 6, e100259	4.6	
219	Comparison of Large Animal Models for Acute Ischemic Stroke: Which Model to Use?. <i>Stroke</i> , 2022 , STROKEAHA1210360	9.9	0
218	Reduced nitric oxide bioavailability impairs myocardial oxygen balance during exercise in swine with multiple risk factors. <i>Basic Research in Cardiology</i> , 2021 , 116, 50	11.8	2
217	Reduced nitric oxide bioavailability impairs myocardial oxygen balance during exercise in swine with multiple risk factors. <i>Basic Research in Cardiology</i> , 2021 , 116, 50	11.8	2
216	Prevalence of microvascular angina among patients with stable symptoms in the absence of obstructive coronary artery disease: a systematic review. <i>Cardiovascular Research</i> , 2021 ,	9.9	4
215	A novel intra-ventricular assist device enhances cardiac performance in normal and acutely failing isolated porcine hearts. <i>International Journal of Artificial Organs</i> , 2021 , 3913988211003912	1.9	
214	Preclinical trial of a MAP4K4 inhibitor to reduce infarct size in the pig: does cardioprotection in human stem cell-derived myocytes predict success in large mammals?. <i>Basic Research in Cardiology</i> , 2021 , 116, 34	11.8	2
213	Progress in cardiac research: from rebooting cardiac regeneration to a complete cell atlas of the heart. <i>Cardiovascular Research</i> , 2021 , 117, 2161-2174	9.9	7
212	Endothelial function in cardiovascular medicine: a consensus paper of the European Society of Cardiology Working Groups on Atherosclerosis and Vascular Biology, Aorta and Peripheral Vascular Diseases, Coronary Pathophysiology and Microcirculation, and Thrombosis. <i>Cardiovascular Research</i> , 2021 , 117, 29-42	9.9	53
211	Towards standardization of echocardiography for the evaluation of left ventricular function in adult rodents: a position paper of the ESC Working Group on Myocardial Function. <i>Cardiovascular Research</i> , 2021 , 117, 43-59	9.9	25
210	Contributions of Wall Stretch and Shear Stress to Vascular Regulation: Molecular Mechanisms of Homeostasis and Expansion. <i>Cardiac and Vascular Biology</i> , 2021 , 21-46	0.2	
209	An EAPCI Expert Consensus Document on Ischaemia with Non-Obstructive Coronary Arteries in Collaboration with European Society of Cardiology Working Group on Coronary Pathophysiology & Microcirculation Endorsed by Coronary Vasomotor Disorders International Study Group. <i>EuroIntervention</i> , 2021 , 16, 1049-1069	3.1	34
208	Nuclear Imaging of Post-infarction Inflammation in Ischemic Cardiac Diseases - New Radiotracers for Potential Clinical Applications. <i>Current Radiopharmaceuticals</i> , 2021 , 14, 184-208	1.8	0
207	Vascular Ageing Features Caused by Selective DNA Damage in Smooth Muscle Cell. <i>Oxidative Medicine and Cellular Longevity</i> , 2021 , 2021, 2308317	6.7	3
206	Functional and structural adaptations of the coronary macro- and micro-vasculature to regular aerobic exercise by activation of physiological, cellular and molecular mechanisms: Esc Working Group on Coronary Pathophysiology & Microcirculation Position Paper. <i>Cardiovascular Research</i> , 2021 ,	9.9	3
205	Genomic instability in the naturally and prematurely aged myocardium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	3

204	Impaired pulmonary vasomotor control in exercising swine with multiple comorbidities. <i>Basic Research in Cardiology</i> , 2021 , 116, 51	11.8	1
203	Cardiovascular disease and COVID-19: a consensus paper from the ESC Working Group on Coronary Pathophysiology & Microcirculation, ESC Working Group on Thrombosis and the Association for Acute CardioVascular Care (ACVC), in collaboration with the European Heart Rhythm Association (EHRA). <i>Cardiovascular Research</i> , 2021 ,	9.9	16
202	A 3-year evaluation of preclinicaltrials.eu reveals room for improvement in preregistration of animal studies. <i>PLoS Biology</i> , 2021 , 19, e3001397	9.7	1
201	Endothelial Dysfunction, Atherosclerosis, and Increase of von Willebrand Factor and Factor VIII: A Randomized Controlled Trial in Swine. <i>Thrombosis and Haemostasis</i> , 2021 , 121, 676-686	7	2
200	An implantable Artificial Atherosclerotic Plaque as a Novel Approach for Drug Transport Studies on Drug-eluting Stents. <i>Advanced Healthcare Materials</i> , 2021 , e2101570	10.1	
199	Mechanobiology of Microvascular Function and Structure in Health and Disease: Focus on the Coronary Circulation.. <i>Frontiers in Physiology</i> , 2021 , 12, 771960	4.6	2
198	Dichotomy between the transcriptomic landscape of naturally versus accelerated aged murine hearts. <i>Scientific Reports</i> , 2020 , 10, 8136	4.9	
197	Both male and female obese ZSF1 rats develop cardiac dysfunction in obesity-induced heart failure with preserved ejection fraction. <i>PLoS ONE</i> , 2020 , 15, e0232399	3.7	11
196	Extracellular Matrix Analysis of Human Renal Arteries in Both Quiescent and Active Vascular State. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	3
195	The ESC Working Group on Coronary Pathophysiology and Microcirculation. <i>European Heart Journal</i> , 2020 , 41, 2150-2151	9.5	
194	Proof of principle of a novel co-pulsating intra-ventricular membrane pump. <i>Artificial Organs</i> , 2020 , 44, 1267-1275	2.6	1
193	An EAPCI Expert Consensus Document on Ischaemia with Non-Obstructive Coronary Arteries in Collaboration with European Society of Cardiology Working Group on Coronary Pathophysiology & Microcirculation Endorsed by Coronary Vasomotor Disorders International Study Group. <i>European Heart Journal</i> , 2020 , 41, 2501-2520	9.5	106
192	Endovascular procedures cause transient endothelial injury but do not disrupt mature neointima in Drug Eluting Stents. <i>Scientific Reports</i> , 2020 , 10, 2173	4.9	6
191	ESC Working Group on Coronary Pathophysiology and Microcirculation position paper on Coronary microvascular dysfunction in cardiovascular disease. <i>Cardiovascular Research</i> , 2020 , 116, 741-755	9.9	57
190	Experimental animal models of coronary microvascular dysfunction. <i>Cardiovascular Research</i> , 2020 , 116, 756-770	9.9	23
189	Lower Plasma Melatonin Levels Predict Worse Long-Term Survival in Pulmonary Arterial Hypertension. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	3
188	Coronary microvascular dysfunction results in impaired coronary flow reserve and altered oxygen balance in a swine model of INOCA with multiple risk factors. <i>European Heart Journal</i> , 2020 , 41,	9.5	1
187	Diabetic metabolic dysregulation and chronic kidney disease induce specific perturbations in coronary microvascular function in swine. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	

186	Increased Vasoconstriction of the Pulmonary Vasculature in Response to a Hypoxic Challenge in Swine Exposed to Hypoxia in the Neonatal Period. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	
185	Coronary Microvascular Dysfunction in Cardiovascular Disease: Lessons from Large Animal Models 2020 , 21-43		
184	Impaired Oxygenation of the Right Ventricle during Development of Pulmonary Hypertension in Swine is not due to Loss of Nitric Oxide. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	
183	Local endothelial DNA repair deficiency causes aging-resembling endothelial-specific dysfunction. <i>Clinical Science</i> , 2020 , 134, 727-746	6.5	9
182	Disentangling the Gordian knot of local metabolic control of coronary blood flow. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020 , 318, H11-H24	5.2	9
181	Pathophysiology and diagnosis of coronary microvascular dysfunction in ST-elevation myocardial infarction. <i>Cardiovascular Research</i> , 2020 , 116, 787-805	9.9	36
180	Lentiviral Hematopoietic Stem Cell Gene Therapy Corrects Murine Pompe Disease. <i>Molecular Therapy - Methods and Clinical Development</i> , 2020 , 17, 1014-1025	6.4	10
179	H3K27ac acetylome signatures reveal the epigenomic reorganization in remodeled non-failing human hearts. <i>Clinical Epigenetics</i> , 2020 , 12, 106	7.7	9
178	Cellular, mitochondrial and molecular alterations associate with early left ventricular diastolic dysfunction in a porcine model of diabetic metabolic derangement. <i>Scientific Reports</i> , 2020 , 10, 13173	4.9	8
177	Perturbations in myocardial perfusion and oxygen balance in swine with multiple risk factors: a novel model of ischemia and no obstructive coronary artery disease. <i>Basic Research in Cardiology</i> , 2020 , 115, 21	11.8	24
176	A direct comparison of natural and acoustic-radiation-force-induced cardiac mechanical waves. <i>Scientific Reports</i> , 2020 , 10, 18431	4.9	0
175	Matrix Metalloproteinases and Tissue Inhibitors of Metalloproteinases in Extracellular Matrix Remodeling during Left Ventricular Diastolic Dysfunction and Heart Failure with Preserved Ejection Fraction: A Systematic Review and Meta-Analysis. <i>International Journal of Molecular Sciences</i> , 2020 , 21, 1-14	6.3	7
174	Depression and coronary heart disease: 2018 position paper of the ESC working group on coronary pathophysiology and microcirculation. <i>European Heart Journal</i> , 2020 , 41, 1687-1696	9.5	90
173	Multidirectional wall shear stress promotes advanced coronary plaque development: comparing five shear stress metrics. <i>Cardiovascular Research</i> , 2020 , 116, 1136-1146	9.9	29
172	A new microfluidic model that allows monitoring of complex vascular structures and cell interactions in a 3D biological matrix. <i>Lab on A Chip</i> , 2020 , 20, 1827-1844	7.2	19
171	Chronic Kidney Disease as a Risk Factor for Heart Failure With Preserved Ejection Fraction: A Focus on Microcirculatory Factors and Therapeutic Targets. <i>Frontiers in Physiology</i> , 2019 , 10, 1108	4.6	19
170	Variation in Coronary Atherosclerosis Severity Related to a Distinct LDL (Low-Density Lipoprotein) Profile: Findings From a Familial Hypercholesterolemia Pig Model. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019 , 39, 2338-2352	9.4	12
169	Cardiac remodelling in a swine model of chronic thromboembolic pulmonary hypertension: comparison of right vs. left ventricle. <i>Journal of Physiology</i> , 2019 , 597, 4465-4480	3.9	8

168	Differential impact of severe familial hypercholesterolemia on regional skeletal muscle and organ blood flows during exercise: Effects of PDE5 inhibition. <i>Microcirculation</i> , 2019 , 26, e12539	2.9	
167	Transition from post-capillary pulmonary hypertension to combined pre- and post-capillary pulmonary hypertension in swine: a key role for endothelin. <i>Journal of Physiology</i> , 2019 , 597, 1157-1173	3.9	15
166	CMTM4 regulates angiogenesis by promoting cell surface recycling of VE-cadherin to endothelial adherens junctions. <i>Angiogenesis</i> , 2019 , 22, 75-93	10.6	45
165	Indoxyl Sulfate Stimulates Angiogenesis by Regulating Reactive Oxygen Species Production via CYP1B1. <i>Toxins</i> , 2019 , 11,	4.9	8
164	Right ventricular oxygen delivery as a determinant of right ventricular functional reserve during exercise in juvenile swine with chronic pulmonary hypertension. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019 , 317, H840-H850	5.2	3
163	Intervening with the Nitric Oxide Pathway to Alleviate Pulmonary Hypertension in Pulmonary Vein Stenosis. <i>Journal of Clinical Medicine</i> , 2019 , 8,	5.1	4
162	Limited synergy of obesity and hypertension, prevalent risk factors in onset and progression of heart failure with preserved ejection fraction. <i>Journal of Cellular and Molecular Medicine</i> , 2019 , 23, 6666-6678	5.6	11
161	Activation of adenosine A but not A receptors is involved in uridine adenosine tetraphosphate-induced porcine coronary smooth muscle relaxation. <i>Journal of Pharmacological Sciences</i> , 2019 , 141, 64-69	3.7	5
160	A proteome comparison between human fetal and mature renal extracellular matrix identifies EMILIN1 as a regulator of renal epithelial cell adhesion. <i>Matrix Biology Plus</i> , 2019 , 4, 100011	5.1	7
159	Transcriptome analysis reveals microvascular endothelial cell-dependent pericyte differentiation. <i>Scientific Reports</i> , 2019 , 9, 15586	4.9	13
158	Differential impact of severe familial hypercholesterolemia on regional skeletal muscle and organ blood flows during exercise: effects of PDE5 inhibition. <i>FASEB Journal</i> , 2019 , 33, lb457	0.9	
157	Intact DNA Repair in Differentiated Cardiomyocytes is Essential for Maintaining Cardiac Function in Response to Physiological Stimulus. <i>FASEB Journal</i> , 2019 , 33, 693.5	0.9	
156	Pulmonary vascular disease in swine with multiple comorbidities. <i>FASEB Journal</i> , 2019 , 33, 693.9	0.9	
155	Uridine adenosine tetraphosphate and purinergic signaling in cardiovascular system: An update. <i>Pharmacological Research</i> , 2019 , 141, 32-45	10.2	19
154	Exercise and the Coronary Circulation 2019 , 467-503		1
153	Feasibility study of a synchronized diastolic injection with low contrast volume for proper quantitative assessment of aortic regurgitation in porcine models. <i>Catheterization and Cardiovascular Interventions</i> , 2019 , 93, 963-970	2.7	7
152	Multiple common comorbidities produce left ventricular diastolic dysfunction associated with coronary microvascular dysfunction, oxidative stress, and myocardial stiffening. <i>Cardiovascular Research</i> , 2018 , 114, 954-964	9.9	96
151	Reactive Oxygen Species: Radical Factors in the Evolution of Animal Life: A molecular timescale from Earth's earliest history to the rise of complex life. <i>BioEssays</i> , 2018 , 40, 1700158	4.1	47

150	Translational Research in Cardiovascular Repair: A Call for a Paradigm Shift. <i>Circulation Research</i> , 2018 , 122, 310-318	15.7	36
149	Cardiovascular Function of Modern Pigs Does not Comply with Allometric Scaling Laws. <i>Scientific Reports</i> , 2018 , 8, 792	4.9	13
148	Chromatin Conformation Links Distal Target Genes to CKD Loci. <i>Journal of the American Society of Nephrology: JASN</i> , 2018 , 29, 462-476	12.7	16
147	Pulmonary vasodilation by phosphodiesterase 5 inhibition is enhanced and nitric oxide independent in early pulmonary hypertension after myocardial infarction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018 , 314, H170-H179	5.2	7
146	Serially measured circulating microRNAs and adverse clinical outcomes in patients with acute heart failure. <i>European Journal of Heart Failure</i> , 2018 , 20, 89-96	12.3	41
145	Uridine Adenosine Tetraphosphate-Induced Coronary Relaxation Is Blunted in Swine With Pressure Overload: A Role for Vasoconstrictor Prostanoids. <i>Frontiers in Pharmacology</i> , 2018 , 9, 255	5.6	5
144	Exercise Training Has Contrasting Effects in Myocardial Infarction and Pressure Overload Due to Divergent Endothelial Nitric Oxide Synthase Regulation. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	6
143	Exercise facilitates early recognition of cardiac and vascular remodeling in chronic thromboembolic pulmonary hypertension in swine. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018 , 314, H627-H642	5.2	9
142	Structural and functional changes of the pulmonary vasculature after hypoxia exposure in the neonatal period: a new swine model of pulmonary vascular disease. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018 , 314, H603-H615	5.2	2
141	Early detection of left ventricular diastolic dysfunction using conventional and speckle tracking echocardiography in a large animal model of metabolic dysfunction. <i>International Journal of Cardiovascular Imaging</i> , 2018 , 34, 743-749	2.5	10
140	Comparative proteomic analysis of cat eye syndrome critical region protein 1- function in tumor-associated macrophages and immune response regulation of glial tumors. <i>Oncotarget</i> , 2018 , 9, 33500-33514	3.3	3
139	The effect of bioresorbable vascular scaffold implantation on distal coronary endothelial function in dyslipidemic swine with and without diabetes. <i>International Journal of Cardiology</i> , 2018 , 252, 44-51	3.2	3
138	P182Importance of Indoleamine-2,3-Dioxygenase in the pathogenesis of pulmonary hypertension. <i>Cardiovascular Research</i> , 2018 , 114, S49-S49	9.9	
137	Pulmonary microvascular remodeling in chronic thrombo-embolic pulmonary hypertension. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2018 , 315, L951-L964	5.8	9
136	Changes in the nitric oxide pathway of the pulmonary vasculature after exposure to hypoxia in swine model of neonatal pulmonary vascular disease. <i>Physiological Reports</i> , 2018 , 6, e13889	2.6	4
135	Endothelial loss of Fzd5 stimulates PKC/Ets1-mediated transcription of Angpt2 and Flt1. <i>Angiogenesis</i> , 2018 , 21, 805-821	10.6	11
134	Cardiac Shear Wave Velocity Detection in the Porcine Heart. <i>Ultrasound in Medicine and Biology</i> , 2017 , 43, 753-764	3.5	28
133	Saline-Induced Coronary Hyperemia: Mechanisms and Effects on Left Ventricular Function. <i>Circulation: Cardiovascular Interventions</i> , 2017 , 10,	6	36

132	CMTM3 (CKLF-Like Marvel Transmembrane Domain 3) Mediates Angiogenesis by Regulating Cell Surface Availability of VE-Cadherin in Endothelial Adherens Junctions. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017 , 37, 1098-1114	9.4	18
131	The microcirculation: a key player in obesity-associated cardiovascular disease. <i>Cardiovascular Research</i> , 2017 , 113, 1035-1045	9.9	91
130	Intermittent pacing therapy favorably modulates infarct remodeling. <i>Basic Research in Cardiology</i> , 2017 , 112, 28	11.8	1
129	Position paper of the European Society of Cardiology-working group of coronary pathophysiology and microcirculation: obesity and heart disease. <i>European Heart Journal</i> , 2017 , 38, 1951-1958	9.5	39
128	Chronic Myocardial Ischemia Leads to Loss of Maximal Oxygen Consumption and Complex I Dysfunction. <i>Annals of Thoracic Surgery</i> , 2017 , 104, 1298-1304	2.7	7
127	Altered purinergic signaling in uridine adenosine tetraphosphate-induced coronary relaxation in swine with metabolic derangement. <i>Purinergic Signalling</i> , 2017 , 13, 319-329	3.8	11
126	Folic acid reduces doxorubicin-induced cardiomyopathy by modulating endothelial nitric oxide synthase. <i>Journal of Cellular and Molecular Medicine</i> , 2017 , 21, 3277-3287	5.6	26
125	Normalization of hemoglobin-based oxygen carrier-201 induced vasoconstriction: targeting nitric oxide and endothelin. <i>Journal of Applied Physiology</i> , 2017 , 122, 1227-1237	3.7	7
124	Oxidative injury of the pulmonary circulation in the perinatal period: Short- and long-term consequences for the human cardiopulmonary system. <i>Pulmonary Circulation</i> , 2017 , 7, 55-66	2.7	17
123	Activation of CECR1 in M2-like TAMs promotes paracrine stimulation-mediated glial tumor progression. <i>Neuro-Oncology</i> , 2017 , 19, 648-659	1	23
122	Cgln1, an endothelial junction complex protein, regulates GTPase mediated angiogenesis. <i>Cardiovascular Research</i> , 2017 , 113, 1776-1788	9.9	12
121	Time course of VCAM-1 expression in reperfused myocardial infarction in swine and its relation to retention of intracoronary administered bone marrow-derived mononuclear cells. <i>PLoS ONE</i> , 2017 , 12, e0178779	3.7	3
120	Sex differences in pulmonary vascular control: focus on the nitric oxide pathway. <i>Physiological Reports</i> , 2017 , 5, e13200	2.6	3
119	Severe familial hypercholesterolemia impairs the regulation of coronary blood flow and oxygen supply during exercise. <i>Basic Research in Cardiology</i> , 2016 , 111, 61	11.8	22
118	Surgical Placement of Catheters for Long-term Cardiovascular Exercise Testing in Swine. <i>Journal of Visualized Experiments</i> , 2016 , e53772	1.6	14
117	UM206, a selective Frizzled antagonist, attenuates adverse remodeling after myocardial infarction in swine. <i>Laboratory Investigation</i> , 2016 , 96, 168-76	5.9	15
116	Changes in Coronary Blood Flow After Acute Myocardial Infarction: Insights From a Patient Study and an Experimental Porcine Model. <i>JACC: Cardiovascular Interventions</i> , 2016 , 9, 602-13	5	31
115	Ischemic Postconditioning After Routine Thrombus Aspiration During Primary Percutaneous Coronary Intervention: Rationale and Design of the POSTconditioning Rotterdam Trial. <i>Catheterization and Cardiovascular Interventions</i> , 2016 , 88, 508-514	2.7	2

114	Connecting heart failure with preserved ejection fraction and renal dysfunction: the role of endothelial dysfunction and inflammation. <i>European Journal of Heart Failure</i> , 2016 , 18, 588-98	12.3	173
113	Uridine adenosine tetraphosphate acts as a proangiogenic factor in vitro through purinergic P2Y receptors. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016 , 311, H299-309	5.2	13
112	Pregnancy mitigates cardiac pathology in a mouse model of left ventricular pressure overload. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016 , 311, H807-14	5.2	7
111	Coronary microvascular dysfunction after long-term diabetes and hypercholesterolemia. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016 , 311, H1339-H1351	5.2	37
110	Serial Coronary Imaging of Early Atherosclerosis Development in Fast-Food-Fed Diabetic and Nondiabetic Swine. <i>JACC Basic To Translational Science</i> , 2016 , 1, 449-460	8.7	5
109	Distinct Endothelial Cell Responses in the Heart and Kidney Microvasculature Characterize the Progression of Heart Failure With Preserved Ejection Fraction in the Obese ZSF1 Rat With Cardiorenal Metabolic Syndrome. <i>Circulation: Heart Failure</i> , 2016 , 9, e002760	7.6	46
108	Animal and in silico models for the study of sarcomeric cardiomyopathies. <i>Cardiovascular Research</i> , 2015 , 105, 439-48	9.9	34
107	Coronary vascular regulation, remodelling, and collateralization: mechanisms and clinical implications on behalf of the working group on coronary pathophysiology and microcirculation. <i>European Heart Journal</i> , 2015 , 36, 3134-46	9.5	119
106	The complex mural cell: pericyte function in health and disease. <i>International Journal of Cardiology</i> , 2015 , 190, 75-89	3.2	96
105	What can we learn about treating heart failure from the heart's response to acute exercise? Focus on the coronary microcirculation. <i>Journal of Applied Physiology</i> , 2015 , 119, 934-43	3.7	12
104	Vagal nerve stimulation started just prior to reperfusion limits infarct size and no-reflow. <i>Basic Research in Cardiology</i> , 2015 , 110, 508	11.8	46
103	Normal and high eNOS levels are detrimental in both mild and severe cardiac pressure-overload. <i>Journal of Molecular and Cellular Cardiology</i> , 2015 , 88, 145-54	5.8	11
102	Regulation of coronary blood flow in health and ischemic heart disease. <i>Progress in Cardiovascular Diseases</i> , 2015 , 57, 409-22	8.5	122
101	Exercise training in patients with heart disease: review of beneficial effects and clinical recommendations. <i>Progress in Cardiovascular Diseases</i> , 2015 , 57, 347-55	8.5	107
100	Limitation of Infarct Size and No-Reflow by Intracoronary Adenosine Depends Critically on Dose and Duration. <i>JACC: Cardiovascular Interventions</i> , 2015 , 8, 1990-1999	5	25
99	Exercise training in adverse cardiac remodeling. <i>Pflugers Archiv European Journal of Physiology</i> , 2014 , 466, 1079-91	4.6	7
98	Organ-specific physiological responses to acute physical exercise and long-term training in humans. <i>Physiology</i> , 2014 , 29, 421-36	9.8	49
97	The microRNA-15 family inhibits the TGF β pathway in the heart. <i>Cardiovascular Research</i> , 2014 , 104, 61-71	9.9	118

96	Myocardial perfusion MRI shows impaired perfusion of the mouse hypertrophic left ventricle. <i>International Journal of Cardiovascular Imaging</i> , 2014 , 30, 619-28	2.5	10
95	Pulmonary vasoconstrictor influence of endothelin in exercising swine depends critically on phosphodiesterase 5 activity. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2014 , 306, L442-52	5.8	14
94	271Coronary microvascular dysfunction during long term metabolic derangement in swine. <i>Cardiovascular Research</i> , 2014 , 103, S49.1-S49	9.9	
93	Perspectives: Coronary microvascular dysfunction in post-infarct remodelled myocardium. <i>European Heart Journal Supplements</i> , 2014 , 16, A74-A79	1.5	4
92	P601Cardio-protective effects of exercise are abolished in pressure-overload following aortic constriction by increased eNOS uncoupling and oxidative stress. <i>Cardiovascular Research</i> , 2014 , 103, S108.4-S108.7	8.9	18
91	Reduced contribution of endothelin to the regulation of systemic and pulmonary vascular tone in severe familial hypercholesterolaemia. <i>Journal of Physiology</i> , 2014 , 592, 1757-69	3.9	10
90	Gene reprogramming in exercise-induced cardiac hypertrophy in swine: A transcriptional genomics approach. <i>Journal of Molecular and Cellular Cardiology</i> , 2014 , 77, 168-74	5.8	8
89	Blunted coronary vasodilator response to uridine adenosine tetraphosphate in post-infarct remodeled myocardium is due to reduced P1 receptor activation. <i>Pharmacological Research</i> , 2013 , 77, 22-9	10.2	18
88	Uridine adenosine tetraphosphate is a novel vasodilator in the coronary microcirculation which acts through purinergic P1 but not P2 receptors. <i>Pharmacological Research</i> , 2013 , 67, 10-7	10.2	29
87	Serial measurement of hFABP and high-sensitivity troponin I post-PCI in STEMI: how fast and accurate can myocardial infarct size and no-reflow be predicted?. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013 , 305, H1104-10	5.2	16
86	Phosphodiesterase 5 inhibition-induced coronary vasodilation is reduced after myocardial infarction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013 , 304, H1370-81	5.2	16
85	Familial hypercholesterolemia impairs exercise-induced systemic vasodilation due to reduced NO bioavailability. <i>Journal of Applied Physiology</i> , 2013 , 115, 1767-76	3.7	11
84	Reactive oxygen species and the cardiovascular system. <i>Oxidative Medicine and Cellular Longevity</i> , 2013 , 2013, 862423	6.7	89
83	Cytochrome P450 2C9 contributes to pulmonary vasoconstriction in exercising swine. <i>FASEB Journal</i> , 2013 , 27, 898.1	0.9	
82	Phosphodiesterase-5 activity exerts a coronary vasoconstrictor influence in awake swine that is partly mediated via an increase in endothelin production. <i>FASEB Journal</i> , 2013 , 27, 1185.5	0.9	
81	Diverse Effects of Aging on the Cardiac Response in Pathological Left Ventricular Remodeling and Dysfunction. <i>FASEB Journal</i> , 2013 , 27, 1194.2	0.9	
80	The coronary circulation in exercise training. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012 , 302, H10-23	5.2	95
79	Peripheral circulation. <i>Comprehensive Physiology</i> , 2012 , 2, 321-447	7.7	160

78	Endothelial dysfunction enhances the pulmonary and systemic vasodilator effects of phosphodiesterase-5 inhibition in awake swine at rest and during treadmill exercise. <i>Experimental Biology and Medicine</i> , 2012 , 237, 201-10	3.7	9
77	Regulation of coronary resistance vessel tone in response to exercise. <i>Journal of Molecular and Cellular Cardiology</i> , 2012 , 52, 802-13	5.8	37
76	Nucleotide excision DNA repair is associated with age-related vascular dysfunction. <i>Circulation</i> , 2012 , 126, 468-78	16.7	104
75	Nitroso-redox balance in control of coronary vasomotor tone. <i>Journal of Applied Physiology</i> , 2012 , 112, 1644-52	3.7	21
74	Cytochrome P-450 2C9 exerts a vasoconstrictor influence on coronary resistance vessels in swine at rest and during exercise. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012 , 302, H1747-55	5.2	9
73	Coronary microvascular dysfunction in a porcine model of early atherosclerosis and diabetes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012 , 302, H85-94	5.2	47
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