Sean Davidson

List of Publications by Citations

183 papers	11,920 citations	59 h-index	107 g-index
226 ext. papers	14,142 ext. citations	8 avg, IF	6.51 L-index

#	Paper	IF	Citations
183	Ischaemic accumulation of succinate controls reperfusion injury through mitochondrial ROS. *Nature*, **2014**, 515, 431-435	50.4	1360
182	Inhibiting mitochondrial fission protects the heart against ischemia/reperfusion injury. *Circulation*, **2010**, 121, 2012-22	16.7	696
181	De novo cardiomyocytes from within the activated adult heart after injury. *Nature*, **2011**, 474, 640-4	50.4	515
180	Plasma exosomes protect the myocardium from ischemia-reperfusion injury. *Journal of the American College of Cardiology*, **2015**, 65, 1525-36	15.1	323
179	Vascular smooth muscle cell calcification is mediated by regulated exosome secretion. *Circulation Research*, **2015**, 116, 1312-23	15.7	319
178	Endothelial mitochondria: contributing to vascular function and disease. *Circulation Research*, **2007**, 100, 1128-41	15.7	293
177	Multitarget Strategies to Reduce Myocardial Ischemia/Reperfusion Injury: JACC Review Topic of the Week. *Journal of the American College of Cardiology*, **2019**, 73, 89-99	15.1	292
176	Necrostatin: a potentially novel cardioprotective agent?. *Cardiovascular Drugs and Therapy*, **2007**, 21, 227-33	3.9	251
175	Practical guidelines for rigor and reproducibility in preclinical and clinical studies on cardioprotection. *Basic Research in Cardiology*, **2018**, 113, 39	11.8	224
174	Molecular regulation of cardiac hypertrophy. *International Journal of Biochemistry and Cell Biology*, **2008**, 40, 2023-39	5.6	221
173	Microvesicles and exosomes: new players in metabolic and cardiovascular disease. *Journal of Endocrinology*, **2016**, 228, R57-71	4.7	220
172	Novel targets and future strategies for acute cardioprotection: Position Paper of the European Society of Cardiology Working Group on Cellular Biology of the Heart. *Cardiovascular Research*, **2017**, 113, 564-585	9.9	206
171	Preconditioning and postconditioning: the essential role of the mitochondrial permeability transition pore. *Cardiovascular Research*, **2007**, 75, 530-5	9.9	204
170	Extracellular vesicles in diagnostics and therapy of the ischaemic heart: Position Paper from the Working Group on Cellular Biology of the Heart of the European Society of Cardiology. *Cardiovascular Research*, **2018**, 114, 19-34	9.9	198
169	Ischaemic conditioning and targeting reperfusion injury: a 30 year voyage of discovery. *Basic Research in Cardiology*, **2016**, 111, 70	11.8	192
168	STAT-1 interacts with p53 to enhance DNA damage-induced apoptosis. *Journal of Biological Chemistry*, **2004**, 279, 5811-20	5.4	169
167	Metformin protects the ischemic heart by the Akt-mediated inhibition of mitochondrial permeability transition pore opening. *Basic Research in Cardiology*, **2008**, 103, 274-84	11.8	165

166	Mitochondrial uncoupling, with low concentration FCCP, induces ROS-dependent cardioprotection independent of KATP channel activation. *Cardiovascular Research*, **2006**, 72, 313-21	9.9	165
165	Apelin-13 and apelin-36 exhibit direct cardioprotective activity against ischemia-reperfusion injury. *Basic Research in Cardiology*, **2007**, 102, 518-28	11.8	164
164	Position Paper of the European Society of Cardiology Working Group Cellular Biology of the Heart: cell-based therapies for myocardial repair and regeneration in ischemic heart disease and heart failure. *European Heart Journal*, **2016**, 37, 1789-98	9.5	163
163	Signalling via the reperfusion injury signalling kinase (RISK) pathway links closure of the mitochondrial permeability transition pore to cardioprotection. *International Journal of Biochemistry and Cell Biology*, **2006**, 38, 414-9	5.6	152
162	Comparison of small extracellular vesicles isolated from plasma by ultracentrifugation or size-exclusion chromatography: yield, purity and functional potential. *Journal of Extracellular Vesicles*, **2019**, 8, 1560809	16.4	148
161	Photoaffinity labeling of nicotinic acid adenine dinucleotide phosphate (NAADP) targets in mammalian cells. *Journal of Biological Chemistry*, **2012**, 287, 2296-307	5.4	139
160	The cardioprotective effect of necrostatin requires the cyclophilin-D component of the mitochondrial permeability transition pore. *Cardiovascular Drugs and Therapy*, **2007**, 21, 467-9	3.9	136
159	Exosomes: nanoparticles involved in cardioprotection?. *Circulation Research*, **2014**, 114, 325-32	15.7	132
158	Leptin, the obesity-associated hormone, exhibits direct cardioprotective effects. *British Journal of Pharmacology*, **2006**, 149, 5-13	8.6	119
157	The novel adipocytokine visfatin exerts direct cardioprotective effects. *Journal of Cellular and Molecular Medicine*, **2008**, 12, 1395-403	5.6	109
156	ESC working group cellular biology of the heart: position paper: improving the preclinical assessment of novel cardioprotective therapies. *Cardiovascular Research*, **2014**, 104, 399-411	9.9	108
155	Remote ischaemic preconditioning involves signalling through the SDF-1α/CXCR4 signalling axis. *Basic Research in Cardiology*, **2013**, 108, 377	11.8	105
154	Glycogen synthase kinase-3 inactivation is not required for ischemic preconditioning or postconditioning in the mouse. *Circulation Research*, **2008**, 103, 307-14	15.7	103
153	Confounding factors in vesicle uptake studies using fluorescent lipophilic membrane dyes. *Journal of Extracellular Vesicles*, **2017**, 6, 1388731	16.4	102
152	Enhancing AMPK activation during ischemia protects the diabetic heart against reperfusion injury. *American Journal of Physiology - Heart and Circulatory Physiology*, **2011**, 300, H2123-34	5.2	101
151	Hsp25 and the p38 MAPK pathway are involved in differentiation of cardiomyocytes. *Developmental Biology*, **2000**, 218, 146-60	3.1	101
150	HIF-1 reduces ischaemia-reperfusion injury in the heart by targeting the mitochondrial permeability transition pore. *Cardiovascular Research*, **2014**, 104, 24-36	9.9	98
149	Epigenomic and transcriptomic approaches in the post-genomic era: path to novel targets for diagnosis and therapy of the ischaemic heart? Position Paper of the European Society of Cardiology Working Group on Cellular Biology of the Heart. *Cardiovascular Research*, **2017**, 113, 725-736	9.9	85

148	Remote ischemic conditioning: from experimental observation to clinical application: report from the 8th Biennial Hatter Cardiovascular Institute Workshop. *Basic Research in Cardiology*, **2015**, 110, 453	11.8	85
147	Leptin-induced cardioprotection involves JAK/STAT signaling that may be linked to the mitochondrial permeability transition pore. *American Journal of Physiology - Heart and Circulatory Physiology*, **2010**, 299, H1265-70	5.2	80
146	Loss of PINK1 increases the heart's vulnerability to ischemia-reperfusion injury. *PLoS ONE*, **2013**, 8, e62400	3.7	79
145	The coronary circulation in acute myocardial ischaemia/reperfusion injury: a target for cardioprotection. *Cardiovascular Research*, **2019**, 115, 1143-1155	9.9	77
144	Endothelial mitochondria and heart disease. *Cardiovascular Research*, **2010**, 88, 58-66	9.9	76
143	Calcium microdomains and oxidative stress. *Cell Calcium*, **2006**, 40, 561-74	4	75
142	Mitochondrial cyclophilin-D as a critical mediator of ischaemic preconditioning. *Cardiovascular Research*, **2010**, 88, 67-74	9.9	72
141	Innate immunity as a target for acute cardioprotection. *Cardiovascular Research*, **2019**, 115, 1131-1142	9.9	70
140	Co-dependence of the neural and humoral pathways in the mechanism of remote ischemic conditioning. *Basic Research in Cardiology*, **2016**, 111, 50	11.8	68
139	Stromal derived factor 1: a chemokine that delivers a two-pronged defence of the myocardium. *Pharmacology & Therapeutics*, **2014**, 143, 305-15	13.9	67
138	Local control of nuclear calcium signaling in cardiac myocytes by perinuclear microdomains of sarcolemmal insulin-like growth factor 1 receptors. *Circulation Research*, **2013**, 112, 236-45	15.7	67
137	Parkin is recruited into aggresomes in a stress-specific manner: over-expression of parkin reduces aggresome formation but can be dissociated from parkin's effect on neuronal survival. *Human Molecular Genetics*, **2004**, 13, 117-35	5.6	67
136	Circulating blood cells and extracellular vesicles in acute cardioprotection. *Cardiovascular Research*, **2019**, 115, 1156-1166	9.9	67
135	Transitory activation of AMPK at reperfusion protects the ischaemic-reperfused rat myocardium against infarction. *Cardiovascular Drugs and Therapy*, **2010**, 24, 25-32	3.9	64
134	Cardioprotection mediated by exosomes is impaired in the setting of type II diabetes but can be rescued by the use of non-diabetic exosomes in vitro. *Journal of Cellular and Molecular Medicine*, **2018**, 22, 141-151	5.6	62
133	9th Hatter Biannual Meeting: position document on ischaemia/reperfusion injury, conditioning and the ten commandments of cardioprotection. *Basic Research in Cardiology*, **2016**, 111, 41	11.8	62
132	Metformin prevents myocardial reperfusion injury by activating the adenosine receptor. *Journal of Cardiovascular Pharmacology*, **2009**, 53, 373-8	3.1	61
131	Effects of NO on mitochondrial function in cardiomyocytes: Pathophysiological relevance. *Cardiovascular Research*, **2006**, 71, 10-21	9.9	61

130	Exosomes and cardioprotection - A critical analysis. *Molecular Aspects of Medicine*, **2018**, 60, 104-114	16.7	61
129	Exosomes and Cardiovascular Protection. *Cardiovascular Drugs and Therapy*, **2017**, 31, 77-86	3.9	60
128	Slow calcium waves and redox changes precede mitochondrial permeability transition pore opening in the intact heart during hypoxia and reoxygenation. *Cardiovascular Research*, **2012**, 93, 445-53	9.9	59
127	Endothelial cells release cardioprotective exosomes that may contribute to ischaemic preconditioning. *Scientific Reports*, **2018**, 8, 15885	4.9	59
126	Remote ischaemic conditioning reduces infarct size in animal in vivo models of ischaemia-reperfusion injury: a systematic review and meta-analysis. *Cardiovascular Research*, **2017**, 113, 288-297	9.9	58
125	Novel therapeutic strategies for cardioprotection. *Pharmacology & Therapeutics*, **2014**, 144, 60-70	13.9	57
124	Mitochondrial and mitochondrial-independent pathways of myocardial cell death during ischaemia and reperfusion injury. *Journal of Cellular and Molecular Medicine*, **2020**, 24, 3795-3806	5.6	56
123	The cytokine storm of COVID-19: a spotlight on prevention and protection. *Expert Opinion on Therapeutic Targets*, **2020**, 24, 723-730	6.4	55
122	STAT-1 facilitates the ATM activated checkpoint pathway following DNA damage. *Journal of Cell Science*, **2005**, 118, 1629-39	5.3	54
121	ALIX Regulates Tumor-Mediated Immunosuppression by Controlling EGFR Activity and PD-L1 Presentation. *Cell Reports*, **2018**, 24, 630-641	10.6	53
120	Mitochondrial cyclophilin-D as a potential therapeutic target for post-myocardial infarction heart failure. *Journal of Cellular and Molecular Medicine*, **2011**, 15, 2443-51	5.6	52
119	Urocortin prevents mitochondrial permeability transition in response to reperfusion injury indirectly by reducing oxidative stress. *American Journal of Physiology - Heart and Circulatory Physiology*, **2007**, 293, H928-38	5.2	52
118	ESC Working Group on Cellular Biology of the Heart: position paper for Cardiovascular Research: tissue engineering strategies combined with cell therapies for cardiac repair in ischaemic heart disease and heart failure. *Cardiovascular Research*, **2019**, 115, 488-500	9.9	51
117	DJ-1 protects against cell death following acute cardiac ischemia-reperfusion injury. *Cell Death and Disease*, **2014**, 5, e1082	9.8	51
116	β adrenergic receptor selective stimulation during ischemia/reperfusion improves cardiac function in translational models through inhibition of mPTP opening in cardiomyocytes. *Basic Research in Cardiology*, **2014**, 109, 422	11.8	49
115	Dexmedetomidine protects the heart against ischemia-reperfusion injury by an endothelial eNOS/NO dependent mechanism. *Pharmacological Research*, **2016**, 103, 318-27	10.2	48
114	Neural mechanisms in remote ischaemic conditioning in the heart and brain: mechanistic and translational aspects. *Basic Research in Cardiology*, **2018**, 113, 25	11.8	46
113	Calcium handling precedes cardiac differentiation to initiate the first heartbeat. *ELife*, **2016**, 5,	8.9	44

112	The role of PI3K□soform in cardioprotection. *Basic Research in Cardiology*, **2017**, 112, 66	11.8	42
111	Critical considerations for the development of potency tests for therapeutic applications of mesenchymal stromal cell-derived small extracellular vesicles. *Cytotherapy*, **2021**, 23, 373-380	4.8	41
110	The transcriptional coactivator p300 plays a critical role in the hypertrophic and protective pathways induced by phenylephrine in cardiac cells but is specific to the hypertrophic effect of urocortin. *ChemBioChem*, **2005**, 6, 162-70	3.8	39
109	Cardioprotection mediated by urocortin is dependent on PKCepsilon activation. *FASEB Journal*, **2005**, 19, 831-3	0.9	39
108	Small extracellular vesicles secreted from human amniotic fluid mesenchymal stromal cells possess cardioprotective and promigratory potential. *Basic Research in Cardiology*, **2020**, 115, 26	11.8	38
107	Assessing mitochondrial potential, calcium, and redox state in isolated mammalian cells using confocal microscopy. *Methods in Molecular Biology*, **2007**, 372, 421-30	1.4	35
106	Hypertrophic effects of urocortin homologous peptides are mediated via activation of the Akt pathway. *Biochemical and Biophysical Research Communications*, **2005**, 328, 442-8	3.4	35
105	Intrinsic cardiac ganglia and acetylcholine are important in the mechanism of ischaemic preconditioning. *Basic Research in Cardiology*, **2017**, 112, 11	11.8	34
104	The powerful cardioprotective effects of urocortin and the corticotropin releasing hormone (CRH) family. *Biochemical Pharmacology*, **2009**, 77, 141-50	6	34
103	miR-19a-3p containing exosomes improve function of ischaemic myocardium upon shock wave therapy. *Cardiovascular Research*, **2020**, 116, 1226-1236	9.9	34
102	Myocardial regeneration: expanding the repertoire of thymosin □4 in the ischemic heart. *Annals of the New York Academy of Sciences*, **2012**, 1269, 92-101	6.5	33
101	Cytotoxicity of 5-aza-2Pdeoxycytidine in a mammalian cell system. *European Journal of Cancer*, **1992**, 28, 362-8	7.5	33
100	The cannabinoid CB1 receptor antagonist, rimonabant, protects against acute myocardial infarction. *Basic Research in Cardiology*, **2009**, 104, 781-92	11.8	32
99	Inhibition of NAADP signalling on reperfusion protects the heart by preventing lethal calcium oscillations via two-pore channel 1 and opening of the mitochondrial permeability transition pore. *Cardiovascular Research*, **2015**, 108, 357-66	9.9	29
98	From Protecting the Heart to Improving Athletic Performance - the Benefits of Local and Remote Ischaemic Preconditioning. *Cardiovascular Drugs and Therapy*, **2015**, 29, 573-588	3.9	28
97	The Caspase 1 Inhibitor VX-765 Protects the Isolated Rat Heart via the RISK Pathway. *Cardiovascular Drugs and Therapy*, **2018**, 32, 165-168	3.9	28
96	Therapeutic strategies utilizing SDF-1□n ischaemic cardiomyopathy. *Cardiovascular Research*, **2018**, 114, 358-367	9.9	26
95	Epistatic rescue of Nkx2.5 adult cardiac conduction disease phenotypes by prospero-related homeobox protein 1 and HDAC3. *Circulation Research*, **2012**, 111, e19-31	15.7	26

94	Urocortin: a protective peptide that targets both the myocardium and vasculature. *Pharmacological Reports*, **2009**, 61, 172-82	3.9	26
93	Role of Caspase 1 in Ischemia/Reperfusion Injury of the Myocardium. *Journal of Cardiovascular Pharmacology*, **2019**, 74, 194-200	3.1	25
92	A critical role for the chromatin remodeller CHD7 in anterior mesoderm during cardiovascular development. *Developmental Biology*, **2015**, 405, 82-95	3.1	24
91	Role of PI3K in myocardial ischaemic preconditioning: mapping pro-survival cascades at the trigger phase and at reperfusion. *Journal of Cellular and Molecular Medicine*, **2018**, 22, 926-935	5.6	24
90	The cardioprotective effect of urocortin during ischaemia/reperfusion involves the prevention of mitochondrial damage. *Biochemical and Biophysical Research Communications*, **2004**, 321, 479-86	3.4	24
89	Improving translational research in sex-specific effects of comorbidities and risk factors in ischaemic heart disease and cardioprotection: position paper and recommendations of the ESC Working Group on Cellular Biology of the Heart. *Cardiovascular Research*, **2021**, 117, 367-385	9.9	24
88	The developmental expression of small HSP. *Progress in Molecular and Subcellular Biology*, **2002**, 28, 103-28	3	22
87	Increased production of functional small extracellular vesicles in senescent endothelial cells. *Journal of Cellular and Molecular Medicine*, **2020**, 24, 4871-4876	5.6	19
86	Matrix metalloproteinase inhibition protects CyPD knockout mice independently of RISK/mPTP signalling: a parallel pathway to protection. *Basic Research in Cardiology*, **2013**, 108, 331	11.8	19
85	Imaging mitochondrial calcium signalling with fluorescent probes and single or two photon confocal microscopy. *Methods in Molecular Biology*, **2012**, 810, 219-34	1.4	19
84	Neuroprotection in Rats Following Ischaemia-Reperfusion Injury by GLP-1 Analogues-Liraglutide and Semaglutide. *Cardiovascular Drugs and Therapy*, **2019**, 33, 661-667	3.9	19
83	Cyclosporin A induces an atypical heat shock response. *Biochemical and Biophysical Research Communications*, **2000**, 269, 464-9	3.4	18
82	Does remote ischaemic conditioning reduce inflammation? A focus on innate immunity and cytokine response. *Basic Research in Cardiology*, **2021**, 116, 12	11.8	16
81	The GTN patch: a simple and effective new approach to cardioprotection?. *Basic Research in Cardiology*, **2018**, 113, 20	11.8	15
80	Exogenous Administration of Recombinant MIF at Physiological Concentrations Failed to Attenuate Infarct Size in a Langendorff Perfused Isolated Mouse Heart Model. *Cardiovascular Drugs and Therapy*, **2016**, 30, 445-453	3.9	15
79	The cardioprotective actions of leptin are lost in the Zucker obese (fa/fa) rat. *Journal of Cardiovascular Pharmacology*, **2009**, 53, 311-7	3.1	15
78	Discovery of new therapeutic redox targets for cardioprotection against ischemia/reperfusion injury and heart failure. *Free Radical Biology and Medicine*, **2021**, 163, 325-343	7.8	15
77	Exogenous SDF-1 Protects Human Myocardium from Hypoxia-Reoxygenation Injury via CXCR4. *Cardiovascular Drugs and Therapy*, **2015**, 29, 589-592	3.9	14

76	The bacterial nucleoside N(6)-methyldeoxyadenosine induces the differentiation of mammalian tumor cells. *Biochemical and Biophysical Research Communications*, **2001**, 285, 800-5	3.4	14
75	In vivo growth of a murine lymphoma cell line alters regulation of expression of HSP72. *Molecular and Cellular Biology*, **1995**, 15, 1071-8	4.8	14
74	Targeting myocardial ischaemic injury in the absence of reperfusion. *Basic Research in Cardiology*, **2020**, 115, 63	11.8	14
73	Mouse models of atherosclerosis and their suitability for the study of myocardial infarction. *Basic Research in Cardiology*, **2020**, 115, 73	11.8	14
72	Stromal cell-derived factor-1β signals via the endothelium to protect the heart against ischaemia-reperfusion injury. *Journal of Molecular and Cellular Cardiology*, **2019**, 128, 187-197	5.8	13
71	Biologically active constituents of the secretome of human W8B2 cardiac stem cells. *Scientific Reports*, **2018**, 8, 1579	4.9	13
70	Prognostically relevant periprocedural myocardial injury and infarction associated with percutaneous coronary interventions: a Consensus Document of the ESC Working Group on Cellular Biology of the Heart and European Association of Percutaneous Cardiovascular Interventions (EAPCI). *European Heart Journal*, **2021**, 42, 2630-2642	9.5	13
69	The Role of Extracellular DNA and Histones in Ischaemia-Reperfusion Injury of the Myocardium. *Cardiovascular Drugs and Therapy*, **2020**, 34, 123-131	3.9	12
68	Ischaemic Preconditioning Protects Cardiomyocytes from Anthracycline-Induced Toxicity via the PI3K Pathway. *Cardiovascular Drugs and Therapy*, **2018**, 32, 245-253	3.9	12
67	FLIP protects cardiomyocytes from apoptosis induced by simulated ischemia/reoxygenation, as demonstrated by short hairpin-induced (shRNA) silencing of FLIP mRNA. *Journal of Molecular and Cellular Cardiology*, **2003**, 35, 1359-64	5.8	11
66	IMproving Preclinical Assessment of Cardioprotective Therapies (IMPACT) criteria: guidelines of the EU-CARDIOPROTECTION COST Action. *Basic Research in Cardiology*, **2021**, 116, 52	11.8	11
65	Melatonin as a cardioprotective therapy following ST-segment elevation myocardial infarction: is it really promising? Reply. *Cardiovascular Research*, **2017**, 113, 1418-1419	9.9	9
64	Failure of the adipocytokine, resistin, to protect the heart from ischemia-reperfusion injury. *Journal of Cardiovascular Pharmacology and Therapeutics*, **2011**, 16, 63-71	2.6	9
63	Mitochondrial PINK1--a novel cardioprotective kinase?. *Cardiovascular Drugs and Therapy*, **2008**, 22, 507-8	3.9	9
62	The importance of clinically relevant background therapy in cardioprotective studies. *Basic Research in Cardiology*, **2020**, 115, 69	11.8	9
61	Neuroprotection by remote ischemic conditioning in the setting of acute ischemic stroke: a preclinical two-centre study. *Scientific Reports*, **2020**, 10, 16874	4.9	8
60	Glucagon-like peptide-1 (GLP-1) receptor activation dilates cerebral arterioles, increases cerebral blood flow, and mediates remote (pre)conditioning neuroprotection against ischaemic stroke. *Basic Research in Cardiology*, **2021**, 116, 32	11.8	8
59	COVID-19-related cardiac complications from clinical evidences to basic mechanisms: opinion paper of the ESC Working Group on Cellular Biology of the Heart. *Cardiovascular Research*, **2021**, 117, 2148-2160	9.9	8

58	27 Exosomes Released from Endothelial Cells are Cardioprotective. *Heart*, **2014**, 100, A10-A10	5.1	7
57	Stem Cell Aging and Age-Related Cardiovascular Disease: Perspectives of Treatment by Ex-vivo Stem Cell Rejuvenation. *Current Drug Targets*, **2015**, 16, 780-5	3	7
56	Progress in cardiac research: from rebooting cardiac regeneration to a complete cell atlas of the heart. *Cardiovascular Research*, **2021**, 117, 2161-2174	9.9	7
55	162 Polymersomes Functionalized with HSP70 Novel, Synthetic Cardioprotective Nanovesicles. *Heart*, **2016**, 102, A115.2-A115	5.1	7
54	Endothelial insulin resistance protects the heart against prolonged ischemia-reperfusion injury but does not prevent insulin transport across the endothelium in a mouse Langendorff model. *Journal of Cardiovascular Pharmacology and Therapeutics*, **2014**, 19, 586-91	2.6	6
53	The mitochondrial permeability transition pore as a target for cardioprotection in hypertrophic cardiomyopathy. *Cardiovascular Drugs and Therapy*, **2013**, 27, 235-7	3.9	6
52	TPC1 Knockout Knocks Out TPC1. *Molecular and Cellular Biology*, **2015**, 35, 1882-3	4.8	5
51	A novel recombinant antibody specific to full-length stromal derived factor-1 for potential application in biomarker studies. *PLoS ONE*, **2017**, 12, e0174447	3.7	4
50	Imaging Mitochondrial Calcium Fluxes with Fluorescent Probes and Single- or Two-Photon Confocal Microscopy. *Methods in Molecular Biology*, **2018**, 1782, 171-186	1.4	4
49	162 Regulated Exosome Secretion by Vascular Smooth Muscle Cells Mediates Vascular Calcification. *Heart*, **2014**, 100, A93-A94	5.1	4
48	24 Protecting the Heart at a Distance: Exosomes for nano-sized Cardioprotection. *Heart*, **2014**, 100, A9.1-A9	5.1	4
47	Extracellular histones are a target in myocardial ischaemia reperfusion injury. *Cardiovascular Research*, **2021**,	9.9	4
46	Exosomes from neuronal stem cells may protect the heart from ischaemia/reperfusion injury via JAK1/2 and gp130. *Journal of Cellular and Molecular Medicine*, **2021**, 25, 4455-4465	5.6	4
45	Large expert-curated database for benchmarking document similarity detection in biomedical literature search. *Database: the Journal of Biological Databases and Curation*, **2019**, 2019,	5	4
44	Methods for the identification and characterization of extracellular vesicles in cardiovascular studies - from exosomes to microvesicles.. *Cardiovascular Research*, **2022**,	9.9	4
43	STAT5 fits the RISK profile for cardioprotection. *Jak-stat*, **2012**, 1, 73-6		3
42	The Bicyclic Depsipeptide Family of Histone Deacetylase Inhibitors693-720		3
41	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.. *Cardiovascular Research*, **2022**,	9.9	3

40	Can glucagon-like peptide-1 (GLP-1) analogues make neuroprotection a reality?. *Neural Regeneration Research*, **2020**, 15, 1852-1853	4.5	3
39	Myocardial Viability Imaging using Manganese-Enhanced MRI in the First Hours after Myocardial Infarction. *Advanced Science*, **2021**, 8, e2003987	13.6	3
38	Ventilation strategy has a major influence on remote ischaemic preconditioning in mice. *Journal of Cellular and Molecular Medicine*, **2017**, 21, 2426-2431	5.6	2
37	Transgenic overexpression of HSP56 does not result in cardiac hypertrophy nor protect from ischaemia/reperfusion injury. *International Journal of Biochemistry and Cell Biology*, **2011**, 43, 74-9	5.6	2
36	Urocortin: a few inflammatory remarks. *Endocrinology*, **2009**, 150, 5205-7	4.8	2
35	37 A novel role for DJ-1 in cardioprotection. *Heart*, **2011**, 97, e8-e8	5.1	2
34	The effect of Cyclosporine A on cardiomyocytes differentiation. *Journal of Cellular and Molecular Medicine*, **2007**, 11, 369-71	5.6	2
33	Does hyperglycemia reduce proliferation or increase apoptosis?. *American Journal of Physiology - Heart and Circulatory Physiology*, **2006**, 291, H1486; author reply H1487	5.2	2
32	The role of nitric oxide in mitochondria. Focus on "Modulation of mitochondrial Ca2+ by nitric oxide in cultured bovine vascular endothelial cells". *American Journal of Physiology - Cell Physiology*, **2005**, 289, C775-7	5.4	2
31	Letter by Takov et al Regarding Article, "Fabrication of Synthetic Mesenchymal Stem Cells for the Treatment of Acute Myocardial Infarction in Mice". *Circulation Research*, **2017**, 120, e46-e47	15.7	1
30	Fantastic beasts and how to find them-Molecular identification of the mitochondrial ATP-sensitive potassium channel. *Cell Calcium*, **2019**, 84, 102100	4	1
29	UK-Russia Researcher Links Workshop: extracellular vesicles - mechanisms of biogenesis and roles in disease pathogenesis, M.V. Lomonosov Moscow State University, Moscow, Russia, 1-5 March 2015. *Journal of Extracellular Vesicles*, **2015**, 4, 28094	16.4	1
28	Evaluating early and delayed cardioprotection by plasma exosomes in simulated ischaemia□reperfusion injury. *Bioscience Horizons*, **2015**, 8,		1
27	4 Characterisation of Mitochondrial Morphology in the Adult Rodent Heart. *Heart*, **2014**, 100, A2.4-A3	5.1	1
26	Response to "Causal reasoning: the ?magical number?three". *EMBO Reports*, **2009**, 10, 938; author reply 938	6.5	1
25	A needle in a haystack: focus on "Proteomic alterations of distinct mitochondrial subpopulations in the type 1 diabetic heart". *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2011**, 300, R183-5	3.2	1
24	The cardioprotective effect of atorvastatin□s there a role for the adenosine receptor?. *Journal of Molecular and Cellular Cardiology*, **2008**, 44, 778-779	5.8	1
23	FAM3A - A mitochondrial route to the stimulation of angiogenesis?. *EBioMedicine*, **2019**, 43, 3-4	8.8	0

22	Microvesicles and Exosomes in Local and Distant Communication with the Heart. *Pancreatic Islet Biology*, **2016**, 143-162	0.4	0
21	RIC in COVID-19-a Clinical Trial to Investigate Whether Remote Ischemic Conditioning (RIC) Can Prevent Deterioration to Critical Care in Patients with COVID-19. *Cardiovascular Drugs and Therapy*, **2021**, 1	3.9	0
20	Benefit of Extracellular Vesicles at the Blood-Brain Barrier. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2021**, 41, 1146-1148	9.4	0
19	Do We Really Need Aspirin Loading for STEMI?. *Cardiovascular Drugs and Therapy*, **2022**, 1	3.9	0
18	Reflections of Research: Heart of hearts, by Sean Davidson. *British Journal of Cardiac Nursing*, **2018**, 13, 256-256	0.2	
17	David Garcia-Dorado: a true pioneer in cardiac ischaemia/reperfusion injury. *Cardiovascular Research*, **2019**, 115, e177-e180	9.9	
16	P420NAADP signalling augments ischaemia-reperfusion injury via two-pore channel 1 (TPC1). *Cardiovascular Research*, **2014**, 103, S77.1-S77	9.9	
15	193 The role of the pi3k-alpha isoform in cardioprotection. *Heart*, **2017**, 103, A131.2-A131	5.1	
14	9 Importance of intrinsic cardiac nerves in both direct and remote ischaemic conditioning. *Heart*, **2015**, 101, A3.3-A3	5.1	
13	28 Remote ischaemic conditioning involves signalling via CXCR4 but does not increase circulating levels of its known ligands. *Heart*, **2015**, 101, A9.2-A9	5.1	
12	310Plasma exosomes from rats and humans protect the myocardium from ischemia-reperfusion injury. *Cardiovascular Research*, **2014**, 103, S56.3-S56	9.9	
11	P439Comparative metabolomics identifies conserved metabolic pathways that control mitochondrial ROS production during ischaemia reperfusion injury. *Cardiovascular Research*, **2014**, 103, S81.1-S81	9.9	
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