David F Stowe

List of Publications by Year in Descending Order

167 papers	4,845 citations	40 h-index	65 g-index
175 ext. papers	5,269 ext. citations	3.5 avg, IF	5.34 L-index

#	Paper	IF	Citations
167	Effects of Subnormothermic Regulated Hepatic Reperfusion on Mitochondrial and Transcriptomic Profiles in a Porcine Model. *Annals of Surgery*, **2021**,	7.8	2
166	PPARIndependent Side Effects of Thiazolidinediones on Mitochondrial Redox State in Rat Isolated Hearts. *Cells*, **2020**, 9,	7.9	4
165	Knockout of VDAC1 in H9c2 Cells Promotes Oxidative Stress-Induced Cell Apoptosis through Decreased Mitochondrial Hexokinase II Binding and Enhanced Glycolytic Stress. *Cellular Physiology and Biochemistry*, **2020**, 54, 853-874	3.9	2
164	Total Matrix Ca Modulates Ca Efflux via the Ca/H Exchanger in Cardiac Mitochondria. *Frontiers in Physiology*, **2020**, 11, 510600	4.6	5
163	Knockout of VDAC1 in H9c2 Cells Promotes tBHP-induced Cell Apoptosis Through Decreased Mitochondrial HK II Binding and Enhanced Glycolytic Stress. *FASEB Journal*, **2020**, 34, 1-1	0.9	1
162	Modulation of peroxynitrite produced via mitochondrial nitric oxide synthesis during Ca and succinate-induced oxidative stress in cardiac isolated mitochondria. *Biochimica Et Biophysica Acta - Bioenergetics*, **2020**, 1861, 148290	4.6	1
161	Cyclosporin A Increases Mitochondrial Buffering of Calcium: An Additional Mechanism in Delaying Mitochondrial Permeability Transition Pore Opening. *Cells*, **2019**, 8,	7.9	17
160	K+ influx triggers slow K+/H+ exchange detected by biphasic changes in matrix pH in Guinea pig cardiomyocyte mitochondria. *FASEB Journal*, **2019**, 33, 660.7	0.9	
159	Cyclosporine-A Enhances Mitochondrial Calcium Buffering to Delay mPTP Opening. *FASEB Journal*, **2019**, 33, 660.9	0.9	
158	Prevention of mitochondrial pH gradient dissipation: a novel role for cyclosporin A on inhibiting calcium-hydrogen exchange activity in cardiac isolated mitochondria. *FASEB Journal*, **2019**, 33, 660.12	0.9	
157	Peroxynitrite nitrates adenine nucleotide translocase and voltage-dependent anion channel 1 and alters their interactions and association with hexokinase II in mitochondria. *Mitochondrion*, **2019**, 46, 380-392	4.9	19
156	Slow Ca Efflux by Ca/H Exchange in Cardiac Mitochondria Is Modulated by Ca Re-uptake via MCU, Extra-Mitochondrial pH, and H Pumping by FF-ATPase. *Frontiers in Physiology*, **2018**, 9, 1914	4.6	9
155	Subnormothermic Regulated Hepatic Reperfusion Preserves Mitochondrial Function in Swine Liver Procured after Cardiac Death. *FASEB Journal*, **2018**, 32, lb161	0.9	
154	Dissociation of Hexokinase II Binding to VDAC Increases State 3 Respiration and Reduces Membrane Potential Repolarization Time in Mitochondria Isolated From Brain and Heart. *FASEB Journal*, **2018**, 32, 618.5	0.9	
153	Single-lung ventilation and oxidative stress: a different perspective on a common practice. *Current Opinion in Anaesthesiology*, **2017**, 30, 42-49	2.9	7
152	Identity and function of a cardiac mitochondrial small conductance Ca-activated K channel splice variant. *Biochimica Et Biophysica Acta - Bioenergetics*, **2017**, 1858, 442-458	4.6	15
151	Endogenous and Agonist-induced Opening of Mitochondrial Big Versus Small Ca2+-sensitive K+ Channels on Cardiac Cell and Mitochondrial Protection. *Journal of Cardiovascular Pharmacology*, **2017**, 70, 314-328	3.1	10

150	Mg(2+) differentially regulates two modes of mitochondrial Ca(2+) uptake in isolated cardiac mitochondria: implications for mitochondrial Ca(2+) sequestration. *Journal of Bioenergetics and Biomembranes*, **2016**, 48, 175-88	3.7	18
149	Stretch-induced increase in cardiac contractility is independent of myocyte Ca2+ while block of stretch channels by streptomycin improves contractility after ischemic stunning. *Physiological Reports*, **2015**, 3, e12486	2.6	4
148	Human heart preservation analyses using convective cooling. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2015**, 25, 1426-1443	4.5	1
147	Differential effects of buffer pH on Ca(2+)-induced ROS emission with inhibited mitochondrial complexes I and III. *Frontiers in Physiology*, **2015**, 6, 58	4.6	23
146	Human heart conjugate cooling simulation: unsteady thermo-fluid-stress analysis. *International Journal for Numerical Methods in Biomedical Engineering*, **2014**, 30, 1372-86	2.6	1
145	Reversible blockade of complex I or inhibition of PKC reduces activation and mitochondria translocation of p66Shc to preserve cardiac function after ischemia. *PLoS ONE*, **2014**, 9, e113534	3.7	19
144	Mitochondrial targets for volatile anesthetics against cardiac ischemia-reperfusion injury. *Frontiers in Physiology*, **2014**, 5, 341	4.6	25
143	Genetically determined mitochondrial preservation and cardioprotection against myocardial ischemia-reperfusion injury in a consomic rat model. *Physiological Genomics*, **2014**, 46, 169-76	3.6	5
142	Computational analysis of Ca2+ dynamics in isolated cardiac mitochondria predicts two distinct modes of Ca2+ uptake. *Journal of Physiology*, **2014**, 592, 1917-30	3.9	14
141	Isoflurane modulates cardiac mitochondrial bioenergetics by selectively attenuating respiratory complexes. *Biochimica Et Biophysica Acta - Bioenergetics*, **2014**, 1837, 354-65	4.6	27
140	Reactive Oxygen Species (ROS) and Cardiac Ischemia and Reperfusion Injury **2014**, 889-949		1
139	Dynamic buffering of mitochondrial Ca2+ during Ca2+ uptake and Na+-induced Ca2+ release. *Journal of Bioenergetics and Biomembranes*, **2013**, 45, 189-202	3.7	22
138	Mitochondrial handling of excess Ca2+ is substrate-dependent with implications for reactive oxygen species generation. *Free Radical Biology and Medicine*, **2013**, 56, 193-203	7.8	22
137	Extra-matrix Mg2+ limits Ca2+ uptake and modulates Ca2+ uptake-independent respiration and redox state in cardiac isolated mitochondria. *Journal of Bioenergetics and Biomembranes*, **2013**, 45, 203-18	3.7	20
136	Protection against cardiac injury by small Ca(2+)-sensitive K(+) channels identified in guinea pig cardiac inner mitochondrial membrane. *Biochimica Et Biophysica Acta - Biomembranes*, **2013**, 1828, 427-42	3.8	48
135	Safety and Efficacy of Ranolazine for the Treatment of Chronic Angina Pectoris. *Clinical Medicine Insights Therapeutics*, **2013**, 2013, 1-14	0	7
134	Characterization of Different Modes of Ca2+ Uptake under Physiological Conditions in Heart Mitochondria. *FASEB Journal*, **2013**, 27, 1209.20	0.9	
133	Decreased nitration of mitochondrial complex I by ROS/RNS scavenging during cardiac ischemia reperfusion injury. *FASEB Journal*, **2013**, 27, 1209.13	0.9	

132	Attenuating complex I activity decreases p66shc phosphorylation and translocation to mitochondria during cardiac ischemia reperfusion injury. *FASEB Journal*, **2013**, 27, 1144.2	0.9	
131	Ca2+-induced mitochondrial permeability transition pore opening is substrate-dependent. *FASEB Journal*, **2013**, 27, 1209.1	0.9	
130	Putative small conductance Ca2+-sensitive K+ channels isoforms and splice variants in mitochondria of guinea pig cardiac ventricular myocytes. *FASEB Journal*, **2013**, 27, 1209.12	0.9	
129	Resistance of guinea pig cardiac cytochrome c oxidase (complex IV) to extended ischemic time during global ischemia and reperfusion. *FASEB Journal*, **2013**, 27, lb438	0.9	
128	Substrate -dependent Action of Isoflurane on Electron Transport Chain Complexes. *FASEB Journal*, **2013**, 27, 1209.9	0.9	
127	Enhanced charge-independent mitochondrial free Ca(2+) and attenuated ADP-induced NADH oxidation by isoflurane: Implications for cardioprotection. *Biochimica Et Biophysica Acta - Bioenergetics*, **2012**, 1817, 453-65	4.6	14
126	Damage to mitochondrial complex I during cardiac ischemia reperfusion injury is reduced indirectly by anti-anginal drug ranolazine. *Biochimica Et Biophysica Acta - Bioenergetics*, **2012**, 1817, 419-29	4.6	61
125	Tyrosine nitration of voltage-dependent anion channels in cardiac ischemia-reperfusion: reduction by peroxynitrite scavenging. *Biochimica Et Biophysica Acta - Bioenergetics*, **2012**, 1817, 2049-59	4.6	28
124	Reduced mitochondrial Ca2+ loading and improved functional recovery after ischemia-reperfusion injury in old vs. young guinea pig hearts. *American Journal of Physiology - Heart and Circulatory Physiology*, **2012**, 302, H855-63	5.2	13
123	Adding ROS quenchers to cold K+ cardioplegia reduces superoxide emission during 2-hour global cold cardiac ischemia. *Journal of Cardiovascular Pharmacology and Therapeutics*, **2012**, 17, 93-101	2.6	6
122	Isoflurane Increases Mitochondrial Free Ca2+ by Attenuating the Na+/Ca2+ Exchanger Activity. *FASEB Journal*, **2012**, 26, 888.4	0.9	
121	Mitochondrial handling of excess Ca2+ is substrate-dependent with implications on ROS generation. *FASEB Journal*, **2012**, 26, 678.17	0.9	
120	Tyrosine nitration of voltage dependent anion channels induced by peroxynitrite alters protein structure and function in vitro. *FASEB Journal*, **2012**, 26, 678.19	0.9	
119	Resveratrol or 32□C hypothermia applied during reperfusion after cardiac ischemia reduces mitochondrial translocation of p66shc. *FASEB Journal*, **2012**, 26, 678.18	0.9	1
118	Identification, localization, and electrophysiologic characterization of small Ca2+-sensitive K+ channels in cardiac mitochondria. *FASEB Journal*, **2012**, 26, 695.8	0.9	
117	Modeling Dynamic Regulation of Mitochondrial free Ca2+: Effects of Ca2+ Sequestration and Precipitation. *FASEB Journal*, **2012**, 26, 585.4	0.9	
116	Ranolazine reduces Ca2+ overload and oxidative stress and improves mitochondrial integrity to protect against ischemia reperfusion injury in isolated hearts. *Pharmacological Research*, **2011**, 64, 381-92	10.2	87
115	Mitochondrial approaches to protect against cardiac ischemia and reperfusion injury. *Frontiers in Physiology*, **2011**, 2, 13	4.6	100

114	Mitochondrial matrix K+ flux independent of large-conductance Ca2+-activated K+ channel opening. *American Journal of Physiology - Cell Physiology*, **2010**, 298, C530-41	5.4	47
113	Potential therapeutic benefits of strategies directed to mitochondria. *Antioxidants and Redox Signaling*, **2010**, 13, 279-347	8.4	139
112	Mitochondrial free [Ca2+] increases during ATP/ADP antiport and ADP phosphorylation: exploration of mechanisms. *Biophysical Journal*, **2010**, 99, 997-1006	2.9	26
111	Reduced mitochondrial volume contributes but cannot fully explain the increase in matrix free calcium after addition of ADP. *FASEB Journal*, **2010**, 24, 1048.9	0.9	
110	Ranolazine delays Ca2+-induced mitochondrial permeability transition pore opening and membrane potential depolarization in guinea pig heart mitochondria. *FASEB Journal*, **2010**, 24, 601.9	0.9	
109	Protection of NADH-linked Fe-S clusters in cardiac mitochondria by ranolazine. *FASEB Journal*, **2010**, 24, 591.13	0.9	
108	Characterizing the Cardioprotective Phenotype of Brown Norway Rats: Importance of Optimal Ischemia Duration. *FASEB Journal*, **2010**, 24,	0.9	1
107	Mitochondrial reactive oxygen species production in excitable cells: modulators of mitochondrial and cell function. *Antioxidants and Redox Signaling*, **2009**, 11, 1373-414	8.4	346
106	Comparison of cumulative planimetry versus manual dissection to assess experimental infarct size in isolated hearts. *Journal of Pharmacological and Toxicological Methods*, **2009**, 60, 275-80	1.7	21
105	Modulation of mitochondrial bioenergetics in the isolated Guinea pig beating heart by potassium and lidocaine cardioplegia: implications for cardioprotection. *Journal of Cardiovascular Pharmacology*, **2009**, 54, 298-309	3.1	21
104	Modeling Regulation of Mitochondrial Free Ca2+ by Metabolite Dependent Ca2+ Buffering. *FASEB Journal*, **2009**, 23, 994.2	0.9	
103	Uncoupler induced graded mitochondrial depolarization and attenuated matrix calcium uptake are enhanced by complex V inhibition indicative of blocked ATP hydrolysis. *FASEB Journal*, **2009**, 23, 508.5	0.9	
102	Hypothermia impedes calcium induced mitochondrial permeability transition pore opening in mitochondria harvested after cold ischemia of isolated hearts. *FASEB Journal*, **2009**, 23, 508.4	0.9	
101	Mild hypothermia on reperfusion after warm ischemia improves guinea pig isolated heart function. *FASEB Journal*, **2009**, 23, 793.16	0.9	
100	Low-flow perfusion of guinea pig isolated hearts with 26 degrees C air-saturated Lifor solution for 20 hours preserves function and metabolism. *Journal of Heart and Lung Transplantation*, **2008**, 27, 1008-15	5.8	15
99	KATP channel openers have opposite effects on mitochondrial respiration under different energetic conditions. *Journal of Cardiovascular Pharmacology*, **2008**, 51, 483-91	3.1	40
98	Enhanced Na+/H+ exchange during ischemia and reperfusion impairs mitochondrial bioenergetics and myocardial function. *Journal of Cardiovascular Pharmacology*, **2008**, 52, 236-44	3.1	29
97	Differential increase of mitochondrial matrix volume by sevoflurane in isolated cardiac mitochondria. *Anesthesia and Analgesia*, **2008**, 106, 1049-55, table of contents	3.9	13

96	Inhibited mitochondrial respiration by amobarbital during cardiac ischaemia improves redox state and reduces matrix Ca2+ overload and ROS release. *Cardiovascular Research*, **2008**, 77, 406-15	9.9	81
95	Blocking mitochondrial Ca2+ uniport activity during activated Na+/H+ exchange reduces mCa2+ loading but does little to better protect function on reperfusion. *FASEB Journal*, **2008**, 22, 730.24	0.9	
94	Regulation of mitochondrial free Ca2+ by metabolite and pH-dependent Ca2+ buffering in the matrix: analysis by a computational model of mitochondrial Ca2+ handling. *FASEB Journal*, **2008**, 22, 756.7	0.9	
93	Ten-hour preservation of guinea pig isolated hearts perfused at low flow with air-saturated Lifor solution at 26{degrees}C: comparison to ViaSpan solution. *American Journal of Physiology - Heart and Circulatory Physiology*, **2007**, 293, H895-901	5.2	16
92	ROS scavenging before 27 degrees C ischemia protects hearts and reduces mitochondrial ROS, Ca2+ overload, and changes in redox state. *American Journal of Physiology - Cell Physiology*, **2007**, 292, C2021-31	5.4	33
91	Modulation of electron transport protects cardiac mitochondria and decreases myocardial injury during ischemia and reperfusion. *American Journal of Physiology - Cell Physiology*, **2007**, 292, C137-47	5.4	212
90	Mitochondrial Ca2+-induced K+ influx increases respiration and enhances ROS production while maintaining membrane potential. *American Journal of Physiology - Cell Physiology*, **2007**, 292, C148-56	5.4	103
89	Isoflurane activates human cardiac mitochondrial adenosine triphosphate-sensitive K+ channels reconstituted in lipid bilayers. *Anesthesia and Analgesia*, **2007**, 105, 926-32, table of contents	3.9	26
88	Reverse electron flow-induced ROS production is attenuated by activation of mitochondrial Ca2+-sensitive K+ channels. *American Journal of Physiology - Heart and Circulatory Physiology*, **2007**, 293, H1400-7	5.2	78
87	Ten hour preservation of guinea pig isolated hearts perfused at low flow with air-saturated Lifor solution at room temperature. *FASEB Journal*, **2007**, 21, A1255	0.9	
86	Cardiac mitochondrial Ca2+ -dependent big K+ channels are open during early reperfusion. *FASEB Journal*, **2007**, 21, A1224	0.9	2
85	Modeling the roles of Ca uniporter, Na/Ca exchanger and Na/H exchanger in regulating Ca, Na and pH flux in cardiac mitochondria using in vitro spectrofluorometry. *FASEB Journal*, **2007**, 21, A1352	0.9	1
84	Improved mitochondrial Ca2+ handling and functional recovery after ischemia reperfusion injury in hearts from old vs. young guinea pigs. *FASEB Journal*, **2007**, 21, A1223	0.9	
83	Quantitative Analysis of Mitochondrial Membrane Potential Measurements with JC-1. *FASEB Journal*, **2007**, 21, A1351	0.9	2
82	Na+/H+ exchange inhibition protects against ischemic injury by preserving mitochondrial redox state, and by reducing mitochondrial Ca2+ overload and ROS production. *FASEB Journal*, **2007**, 21, A1221	0.9	
81	beta-Blockade abolishes anesthetic preconditioning: impact on clinical applicability. *Anesthesiology*, **2007**, 106, 1061-2; author reply 1062	4.3	
80	Cardiac mitochondrial preconditioning by Big Ca2+-sensitive K+ channel opening requires superoxide radical generation. *American Journal of Physiology - Heart and Circulatory Physiology*, **2006**, 290, H434-40	5.2	111
79	Characterization of human cardiac mitochondrial ATP-sensitive potassium channel and its regulation by phorbol ester in vitro. *American Journal of Physiology - Heart and Circulatory Physiology*, **2006**, 290, H1770-6	5.2	29

78	Ischemia reperfusion dysfunction changes model-estimated kinetics of myofilament interaction due to inotropic drugs in isolated hearts. *BioMedical Engineering OnLine*, **2006**, 5, 16	4.1	3
77	Ischemia-reperfusion injury changes the dynamics of Ca2+-contraction coupling due to inotropic drugs in isolated hearts. *Journal of Applied Physiology*, **2006**, 100, 940-50	3.7	10
76	Anesthetic preconditioning enhances Ca2+ handling and mechanical and metabolic function elicited by Na+-Ca2+ exchange inhibition in isolated hearts. *Anesthesiology*, **2006**, 105, 541-9	4.3	20
75	A comparison of three phosphodiesterase type III inhibitors on mechanical and metabolic function in guinea pig isolated hearts. *Anesthesia and Analgesia*, **2006**, 102, 1646-52	3.9	20
74	Cardiovascular pharmacology **2006**, 499-509		
73	Cardiac protection by volatile anesthetics with Na+/Ca2+ exchanger inhibitors in isolated guinea pig hearts. *FASEB Journal*, **2006**, 20, A319	0.9	
72	Transfer entropy is a better indicator of changes in AV coupling than standard measures of AV conduction. *FASEB Journal*, **2006**, 20, A321	0.9	
71	Amobarbital, high K+ and lidocaine protect hearts against ischemia reperfusion injury by differential changes in mitochondrial bioenergetics. *FASEB Journal*, **2006**, 20, A319	0.9	2
70	Acidotic perfusion protects against ischemic injury by improving mitochondrial redox balance. *FASEB Journal*, **2006**, 20, A742	0.9	
69	Mitochondrial Ca2+ -Dependent Big K+ Channels in Postconditioning of Guinea Pig Isolated Hearts. *FASEB Journal*, **2006**, 20, A1154	0.9	
68	Modulatory effects of endogenous nitric oxide on the bioenergetics of BKCa channels in guinea pig isolated cardiac mitochondria. *FASEB Journal*, **2006**, 20, A893	0.9	
67	Improved return of left ventricular function and myoplasmic [Ca2+] after ischemia reperfusion injury in hearts from old vs. young guinea pigs. *FASEB Journal*, **2006**, 20, A384	0.9	
66	Activation of Mitochondrial Ca2+ Sensitive Potassium Channels Enhances Mitochondrial Reactive Oxygen Species Production. *FASEB Journal*, **2006**, 20, A315	0.9	1
65	Cardioprotection with volatile anesthetics: mechanisms and clinical implications. *Anesthesia and Analgesia*, **2005**, 100, 1584-1593	3.9	160
64	Reactive oxygen species as mediators of cardiac injury and protection: the relevance to anesthesia practice. *Anesthesia and Analgesia*, **2005**, 101, 1275-1287	3.9	145
63	Anesthetic preconditioning: the role of free radicals in sevoflurane-induced attenuation of mitochondrial electron transport in Guinea pig isolated hearts. *Anesthesia and Analgesia*, **2005**, 100, 46-53	3.9	60
62	Increasing heart size and age attenuate anesthetic preconditioning in guinea pig isolated hearts. *Anesthesia and Analgesia*, **2005**, 101, 1572-1576	3.9	28
61	Improved mitochondrial bioenergetics by anesthetic preconditioning during and after 2 hours of 27 degrees C ischemia in isolated hearts. *Journal of Cardiovascular Pharmacology*, **2005**, 46, 280-7	3.1	15

60	Warm ischemic preconditioning improves mitochondrial redox balance during and after mild hypothermic ischemia in guinea pig isolated hearts. *American Journal of Physiology - Heart and Circulatory Physiology*, **2005**, 288, H2620-7	5.2	30
59	Hypothermia augments reactive oxygen species detected in the guinea pig isolated perfused heart. *American Journal of Physiology - Heart and Circulatory Physiology*, **2004**, 286, H1289-99	5.2	67
58	Negative inotropic drugs alter indexes of cytosolic [Ca(2+)]-left ventricular pressure relationships after ischemia. *American Journal of Physiology - Heart and Circulatory Physiology*, **2004**, 287, H667-80	5.2	4
57	Reactive oxygen species and cardiac preconditioning: many questions remain. *Cardiovascular Drugs and Therapy*, **2004**, 18, 87-90	3.9	6
56	Reduced reactive O2 species formation and preserved mitochondrial NADH and [Ca2+] levels during short-term 17 degrees C ischemia in intact hearts. *Cardiovascular Research*, **2004**, 61, 580-90	9.9	96
55	Cardiac preconditioning by volatile anesthetic agents: a defining role for altered mitochondrial bioenergetics. *Antioxidants and Redox Signaling*, **2004**, 6, 439-48	8.4	66
54	Cardiac pharmacological preconditioning with volatile anesthetics: from bench to bedside?. *American Journal of Physiology - Heart and Circulatory Physiology*, **2004**, 286, H1603-7	5.2	71
53	Attenuation of mitochondrial respiration by sevoflurane in isolated cardiac mitochondria is mediated in part by reactive oxygen species. *Anesthesiology*, **2004**, 100, 498-505	4.3	50
52	Dual exposure to sevoflurane improves anesthetic preconditioning in intact hearts. *Anesthesiology*, **2004**, 100, 569-74	4.3	41
51	Cardiotonic drugs differentially alter cytosolic [Ca2+] to left ventricular relationships before and after ischemia in isolated guinea pig hearts. *Cardiovascular Research*, **2003**, 59, 912-25	9.9	12
50	Ischemic preconditioning: triggering role of nitric oxide-derived oxidants in isolated hearts. *Journal of Cardiovascular Pharmacology*, **2003**, 42, 593-600	3.1	15
49	Effect of low [CaCl2] and high [MgCl2] cardioplegia and moderate hypothermic ischemia on myoplasmic [Ca2+] and cardiac function in intact hearts. *European Journal of Cardio-thoracic Surgery* , **2003**, 24, 974-85	3	4
48	Anesthetic preconditioning: effects on latency to ischemic injury in isolated hearts. *Anesthesiology*, **2003**, 99, 385-91	4.3	31
47	Na+/H+ exchange inhibition with cardioplegia reduces cytosolic [Ca2+] and myocardial damage after cold ischemia. *Journal of Cardiovascular Pharmacology*, **2003**, 41, 686-98	3.1	21
46	Anesthetic preconditioning improves adenosine triphosphate synthesis and reduces reactive oxygen species formation in mitochondria after ischemia by a redox dependent mechanism. *Anesthesiology*, **2003**, 98, 1155-63	4.3	75
45	Reactive oxygen species precede the epsilon isoform of protein kinase C in the anesthetic preconditioning signaling cascade. *Anesthesiology*, **2003**, 99, 421-8	4.3	98
44	How inotropic drugs alter dynamic and static indices of cyclic myoplasmic [Ca2+] to contractility relationships in intact hearts. *Journal of Cardiovascular Pharmacology*, **2003**, 42, 539-53	3.1	15
43	Preconditioning with sevoflurane reduces changes in nicotinamide adenine dinucleotide during ischemia-reperfusion in isolated hearts: reversal by 5-hydroxydecanoic acid. *Anesthesiology*, **2003**, 98, 387-95	4.3	67

42	Sevoflurane exposure generates superoxide but leads to decreased superoxide during ischemia and reperfusion in isolated hearts. *Anesthesia and Analgesia*, **2003**, 96, 949-955	3.9	91
41	Ischemic preconditioning alters real-time measure of O2 radicals in intact hearts with ischemia and reperfusion. *American Journal of Physiology - Heart and Circulatory Physiology*, **2003**, 284, H566-74	5.2	195
40	Cross-bridge kinetics modeled from myoplasmic [Ca2+] and LV pressure at 17 degrees C and after 37 degrees C and 17 degrees C ischemia. *American Journal of Physiology - Heart and Circulatory Physiology*, **2003**, 284, H1217-29	5.2	13
39	Cardiac preconditioning with 4-h, 17 degrees C ischemia reduces [Ca(2+)](i) load and damage in part via K(ATP) channel opening. *American Journal of Physiology - Heart and Circulatory Physiology*, **2002**, 282, H1961-9	5.2	18
38	Sevoflurane preconditioning before moderate hypothermic ischemia protects against cytosolic [Ca(2+)] loading and myocardial damage in part via mitochondrial K(ATP) channels. *Anesthesiology*, **2002**, 97, 912-20	4.3	21
37	Differences in cardiotoxicity of bupivacaine and ropivacaine are the result of physicochemical and stereoselective properties. *Anesthesiology*, **2002**, 96, 1427-34	4.3	100
36	Anesthetic preconditioning attenuates mitochondrial Ca2+ overload during ischemia in Guinea pig intact hearts: reversal by 5-hydroxydecanoic acid. *Anesthesia and Analgesia*, **2002**, 95, 1540-6, table of contents	3.9	84
35	Sevoflurane before or after ischemia improves contractile and metabolic function while reducing myoplasmic Ca(2+) loading in intact hearts. *Anesthesiology*, **2002**, 96, 125-33	4.3	65
34	Anesthetic preconditioning: triggering role of reactive oxygen and nitrogen species in isolated hearts. *American Journal of Physiology - Heart and Circulatory Physiology*, **2002**, 283, H44-52	5.2	99
33	Altered NADH and improved function by anesthetic and ischemic preconditioning in guinea pig intact hearts. *American Journal of Physiology - Heart and Circulatory Physiology*, **2002**, 283, H53-60	5.2	78
32	Inhibition of Na(+)/H(+) isoform-1 exchange protects hearts perfused after 6-hour cardioplegic cold storage. *Journal of Heart and Lung Transplantation*, **2002**, 21, 374-82	5.8	18
31	Ischemic and anesthetic preconditioning reduces cytosolic [Ca2+] and improves Ca(2+) responses in intact hearts. *American Journal of Physiology - Heart and Circulatory Physiology*, **2001**, 281, H1508-23	5.2	82
30	Blocking Na(+)/H(+) exchange reduces [Na(+)](i) and [Ca(2+)](i) load after ischemia and improves function in intact hearts. *American Journal of Physiology - Heart and Circulatory Physiology*, **2001**, 281, H2398-409	5.2	66
29	Changes in [Na(+)](i), compartmental [Ca(2+)], and NADH with dysfunction after global ischemia in intact hearts. *American Journal of Physiology - Heart and Circulatory Physiology*, **2001**, 280, H280-93	5.2	65
28	Reduced cytosolic Ca(2+) loading and improved cardiac function after cardioplegic cold storage of guinea pig isolated hearts. *Circulation*, **2000**, 102, 1172-7	16.7	45
27	Enhanced contractile responsiveness to cytosolic Ca(2+) by delta-2 opioid agonist deltorphin in intact guinea pig hearts. *Journal of Molecular and Cellular Cardiology*, **2000**, 32, 1647-59	5.8	14
26	Phosphodiesterase type 5 inhibition enhances vasorelaxation caused by nitroprusside in guinea pig intact heart and isolated aorta. *Journal of Cardiovascular Pharmacology*, **2000**, 36, 162-8	3.1	1
25	Modulation of myocardial function and [Ca2+] sensitivity by moderate hypothermia in guinea pig isolated hearts. *American Journal of Physiology - Heart and Circulatory Physiology*, **1999**, 277, H2321-32	5.2	40

24	Understanding the temporal relationship of ATP loss, calcium loading, and rigor contracture during anoxia, and hypercontracture after anoxia in cardiac myocytes. *Cardiovascular Research*, **1999**, 43, 285-7	9.9	3
23	Reversal of hypothermia-induced action potential lengthening by the KATP channel agonist bimakalim in isolated guinea pig ventricular muscle. *General Pharmacology*, **1998**, 31, 125-31		20
22	Prior preconditioning by ischemia or sevoflurane improves cardiac work per oxygen use in isolated guinea pig hearts after global ischemia. *Advances in Experimental Medicine and Biology*, **1998**, 454, 533-42	3.6	14
21	Effects of L-arginine and N omega-nitro-L-arginine methyl ester on cardiac perfusion and function after 1-day cold preservation of isolated hearts. *Circulation*, **1997**, 95, 1623-34	16.7	8
20	Differential effects of arginine vasopressin on isolated guinea pig heart function during perfusion at constant flow and constant pressure. *Journal of Cardiovascular Pharmacology*, **1997**, 29, 1-7	3.1	26
19	Reversal of endothelin-induced vasoconstriction by endothelium-dependent and -independent vasodilators in isolated hearts and vascular rings. *Journal of Cardiovascular Pharmacology*, **1997**, 29, 747-54	3.1	10
18	Neural and endothelial control of the peripheral circulation--implications for anesthesia: Part I. Neural control of the peripheral vasculature. *Journal of Cardiothoracic and Vascular Anesthesia*, **1996**, 10, 147-58	2.1	13
17	Neural and endothelial control of the peripheral circulation--implications for anesthesia: Part II, Endothelium-mediated effects in the normal and diseased circulation. *Journal of Cardiothoracic and Vascular Anesthesia*, **1996**, 10, 159-71	2.1	16
16	Improvement in functional recovery of the isolated guinea pig heart after hyperkalemic reperfusion with adenosine. *Journal of Thoracic and Cardiovascular Surgery*, **1996**, 111, 74-84	1.5	1
15	Ketamine has stereospecific effects in the isolated perfused guinea pig heart. *Anesthesiology*, **1995**, 82, 1426-37; discussion 25A	4.3	43
14	Direct effects of halothane and isoflurane in infant rabbit hearts with right ventricular hypertrophy secondary to chronic hypoxemia. *Anesthesia and Analgesia*, **1995**, 80, 1122-8	3.9	6
13	One-day hypothermic preservation of isolated hearts with halothane improves cardiac function better than low calcium. *Anesthesiology*, **1995**, 83, 1065-77	4.3	16
12	The comparative effects of equimolar sevoflurane and isoflurane in isolated hearts. *Anesthesia and Analgesia*, **1995**, 81, 1026-32	3.9	19
11	Coronary Flow Response to Vasodilators in Isolated Hearts Cold Perfused for One Day with Butanedione Monoxime. *Endothelium: Journal of Endothelial Cell Research*, **1994**, 2, 87-98		4
10	Excitation-contraction uncoupling and vasodilators for long-term cold preservation of isolated hearts. *Advances in Pharmacology*, **1994**, 31, 39-61	5.7	2
9	Potassium channel openers attenuate atrioventricular block by bupivacaine in isolated hearts. *Anesthesia and Analgesia*, **1993**, 76, 1259-65	3.9	10
8	Reperfusion with adenosine and nitroprusside improves preservation of isolated guinea pig hearts after 22 hours of cold perfusion with 2,3 butanedione monoxime. *Journal of Cardiovascular Pharmacology*, **1993**, 21, 578-86	3.1	13
7	Halothane reduces release of adenosine, inosine, and lactate with ischemia and reperfusion in isolated hearts. *Anesthesia and Analgesia*, **1993**, 76, 54-62	3.9	21

6	Effects of 2,3-butanedione monoxime in isolated hearts: Protection during reperfusion after global ischemia. *Journal of Thoracic and Cardiovascular Surgery*, **1993**, 105, 532-540	1.5	20
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1	Evaluation of the heart rate response to the Valsalva maneuver. *American Heart Journal*, **1978**, 95, 707-15	4.9	30