Keith D Garlid

List of Publications by Year
in descending order

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60 papers	8,044 citations	61984 43 h-index	138484 58 g-index
60 all docs	60 docs citations	60 times ranked	4286 citing authors

#	Article	IF	Citations
1	Mitochondrial Uncoupling Proteins: Subtle Regulators of Cellular Redox SignalingReviewing Editors:Jerzy Beltowski, Joseph Burgoyne, Gabor Csanyi, Sergey Dikalov, Frank Krause, Anibal Vercesi, and Jeremy Ward. Antioxidants and Redox Signaling, 2018, 29, 667-714.	5.4	93
2	Mitochondrial reactive oxygen species: which ROS signals cardioprotection?. American Journal of Physiology - Heart and Circulatory Physiology, 2013, 305, H960-H968.	3.2	54
3	The mitochondrial KATP channelâ€"Fact or fiction?. Journal of Molecular and Cellular Cardiology, 2012, 52, 578-583.	1.9	76
4	Mitochondrial ROMK Channel Is a Molecular Component of MitoK _{ATP}. Circulation Research, 2012, 111, 446-454.	4.5	184
5	Channel character of uncoupling proteinâ€mediated transport. FEBS Letters, 2010, 584, 2135-2141.	2.8	15
6	MitoKATP activity in healthy and ischemic hearts. Journal of Bioenergetics and Biomembranes, 2009, 41, 123-126.	2.3	35
7	Cardioprotective signaling to mitochondria. Journal of Molecular and Cellular Cardiology, 2009, 46, 858-866.	1.9	172
8	Differential Increase of Mitochondrial Matrix Volume by Sevoflurane in Isolated Cardiac Mitochondria. Anesthesia and Analgesia, 2008, 106, 1049-1055.	2.2	15
9	Intramitochondrial signaling: interactions among mitoK_{ATP}, PKCÎµ, ROS, and MPT. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 295, H874-H882.	3.2	200
10	Conditioning the heart induces formation of signalosomes that interact with mitochondria to open mitoK_{ATP}channels. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 295, H953-H961.	3.2	69
11	cGMP signalling in pre- and post-conditioning: the role of mitochondria. Cardiovascular Research, 2007, 77, 344-352.	3.8	124
12	Ouabain protects rat hearts against ischemia-reperfusion injury via pathway involving src kinase, mitoKATP, and ROS. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 292, H1470-H1478.	3.2	76
13	Sarcoplasmic ATP-sensitive potassium channel blocker HMR1098 protects the ischemic heart: Implication of calcium, complex I, reactive oxygen species and mitochondrial ATP-sensitive potassium channel. Journal of Molecular and Cellular Cardiology, 2007, 42, 631-642.	1.9	26
14	Interactions of K+ ATP channel blockers with Na+/K+-ATPase. Molecular and Cellular Biochemistry, 2007, 306, 231-237.	3.1	9
15	Inhibition of cardiac contractility by 5-hydroxydecanoate and tetraphenylphosphonium ion: a possible role of mitoKATP in response to inotropic stress. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H152-H160.	3.2	22
16	Opening mitoKATP increases superoxide generation from complex I of the electron transport chain. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H2067-H2074.	3.2	198
17	Mitochondrial PKCÎµ and Mitochondrial ATP-Sensitive K + Channel Copurify and Coreconstitute to Form a Functioning Signaling Module in Proteoliposomes. Circulation Research, 2006, 99, 878-883.	4.5	140
18	The Mechanism by Which the Mitochondrial ATP-sensitive K+ Channel Opening and H2O2 Inhibit the Mitochondrial Permeability Transition. Journal of Biological Chemistry, 2006, 281, 20801-20808.	3.4	174

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19	The direct physiological effects of mitoKATP opening on heart mitochondria. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H406-H415.	3.2	175
20	Bepridil, an Antiarrhythmic Drug, Opens Mitochondrial KATP Channels, Blocks Sarcolemmal KATP Channels, and Confers Cardioprotection. Journal of Pharmacology and Experimental Therapeutics, 2006, 316, 182-188.	2.5	35
21	Protein Kinase G Transmits the Cardioprotective Signal From Cytosol to Mitochondria. Circulation Research, 2005, 97, 329-336.	4.5	272
22	Hydroperoxy Fatty Acid Cycling Mediated by Mitochondrial Uncoupling Protein UCP2. Journal of Biological Chemistry, 2004, 279, 53097-53102.	3.4	84
23	Functional Distinctions between the Mitochondrial ATP-dependent K+ Channel (mitoKATP) and Its Inward Rectifier Subunit (mitoKIR). Journal of Biological Chemistry, 2004, 279, 32562-32568.	3.4	91
24	Alterations of the bioenergetics systems of the cell in acute and chronic myocardial ischemia. Molecular and Cellular Biochemistry, 2004, 256, 157-166.	3.1	19
25	Title is missing!. Molecular and Cellular Biochemistry, 2003, 242, 181-187.	3.1	68
26	Mitochondrial potassium transport: the K+ cycle. Biochimica Et Biophysica Acta - Bioenergetics, 2003, 1606, 23-41.	1.0	310
27	Mitochondrial potassium transport: the role of the mitochondrial ATP-sensitive K+ channel in cardiac function and cardioprotection. Biochimica Et Biophysica Acta - Bioenergetics, 2003, 1606, 1-21.	1.0	294
28	Reconstitution of Recombinant Uncoupling Proteins. Journal of Biological Chemistry, 2003, 278, 25825-25831.	3.4	101
29	Involvement of mitogen-activated protein kinases and reactive oxygen species in the inotropic action of ouabain on cardiac myocytes. A potential role for mitochondrial KATP channels. , 2003, , 181-187.		31
30	Involvement of mitogen-activated protein kinases and reactive oxygen species in the inotropic action of ouabain on cardiac myocytes. A potential role for mitochondrial K(ATP) channels. Molecular and Cellular Biochemistry, 2003, 242, 181-7.	3.1	35
31	Mechanisms by which opening the mitochondrial ATP- sensitive K⁺channel protects the ischemic heart. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H284-H295.	3.2	192
32	Physiology of Mitochondria. , 2001, , 139-151.		9
33	Bioenergetic consequences of opening the ATP-sensitive K⁺channel of heart mitochondria. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 280, H649-H657.	3.2	305
34	The Mitochondrial Potassium Cycle. IUBMB Life, 2001, 52, 153-158.	3.4	50
35	Identification and Properties of a Novel Intracellular (Mitochondrial) ATP-sensitive Potassium Channel in Brain. Journal of Biological Chemistry, 2001, 276, 33369-33374.	3.4	257
36	Alkylsulfonates as Probes of Uncoupling Protein Transport Mechanism. Journal of Biological Chemistry, 2001, 276, 31897-31905.	3.4	38

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37	Opening mitochondrial K ATP in the heart - what happens, and what does not happen. Basic Research in Cardiology, 2000, 95, 275-279.	5.9	171
38	ATP-Sensitive Potassium Channels: A Review of their Cardioprotective Pharmacology. Journal of Molecular and Cellular Cardiology, 2000, 32, 677-695.	1.9	374
39	How do uncoupling proteins uncouple?. Biochimica Et Biophysica Acta - Bioenergetics, 2000, 1459, 383-389.	1.0	106
40	Bimakalim: A Promising K_{ATP} Channel Activating Agent. Cardiovascular Drug Reviews, 2000, 18, 25-46.	4.1	11
41	Transport Function and Regulation of Mitochondrial Uncoupling Proteins 2 and 3. Journal of Biological Chemistry, 1999, 274, 26003-26007.	3.4	296
42	Existence of uncoupling protein-2 antigen in isolated mitochondria from various tissues. FEBS Letters, 1999, 455, 79-82.	2.8	13
43	Mammalian mitochondrial uncoupling proteins. International Journal of Biochemistry and Cell Biology, 1998, 30, 1163-1168.	2.8	91
44	Fatty acid cycling mechanism and mitochondrial uncoupling proteins. Biochimica Et Biophysica Acta - Bioenergetics, 1998, 1365, 319-327.	1.0	177
45	The mechanism of proton transport mediated by mitochondrial uncoupling proteins. FEBS Letters, 1998, 438, 10-14.	2.8	132
46	State-dependent Inhibition of the Mitochondrial KATP Channel by Glyburide and 5-Hydroxydecanoate. Journal of Biological Chemistry, 1998, 273, 13578-13582.	3.4	224
47	Identification by Site-directed Mutagenesis of Three Arginines in Uncoupling Protein That Are Essential for Nucleotide Binding and Inhibition. Journal of Biological Chemistry, 1997, 272, 24759-24762.	3.4	86
48	Inactive fatty acids are unable to flip-flop across the lipid bilayer. FEBS Letters, 1997, 408, 161-165.	2.8	62
49	A structure-activity study of fatty acid interaction with mitochondrial uncoupling protein. FEBS Letters, 1997, 408, 166-170.	2.8	65
50	The nucleotide regulatory sites on the mitochondrial KATP channel face the cytosol1The experimental work was in partial fulfillment of requirements for the Ph.D. degree for Vladimir Yarov-Yarovoy and Martin JabÅ¯rek..1. Biochimica Et Biophysica Acta - Bioenergetics, 1997, 1321, 128-136.	1.0	50
51	Cardioprotective Effect of Diazoxide and Its Interaction With Mitochondrial ATP-Sensitive K ⁺ Channels. Circulation Research, 1997, 81, 1072-1082.	4.5	889
52	Cation transport in mitochondria â€" The potassium cycle. Biochimica Et Biophysica Acta - Bioenergetics, 1996, 1275, 123-126.	1.0	186
53	Inhibition of the Mitochondrial KATP Channel by Long-chain Acyl-CoA Esters and Activation by Guanine Nucleotides. Journal of Biological Chemistry, 1996, 271, 32084-32088.	3.4	88
54	On the Mechanism of Fatty Acid-induced Proton Transport by Mitochondrial Uncoupling Protein. Journal of Biological Chemistry, 1996, 271, 2615-2620.	3.4	292

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55	The Mitochondrial K Channel as a Receptor for Potassium Channel Openers. Journal of Biological Chemistry, 1996, 271, 8796-8799.	3.4	413
56	[24] Mitochondrial cation transport systems. Methods in Enzymology, 1995, 260, 331-348.	1.0	42
57	New insights into mechanisms of anion uniport through the uncoupling protein of brown adipose tissue mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 1990, 1018, 151-154.	1.0	30
58	On the nature of ion leaks in energy-transducing membranes. Biochimica Et Biophysica Acta - Bioenergetics, 1989, 976, 109-120.	1.0	100
59	Unmasking the mitochondrial KH exchanger: Tetraethylammonium-induced K+-loss. Biochemical and Biophysical Research Communications, 1979, 87, 842-847.	2.1	42
60	Unmasking the mitochondrial KH exchanger: Swelling-induced K+-loss. Biochemical and Biophysical Research Communications, 1978, 83, 1450-1455.	2.1	56