Andrew P Halestrap

List of Publications by Year
in descending order

86 papers	14,957 citations	38720 50 h-index	76872 74 g-index
88 all docs	88 docs citations	88 times ranked	13156 citing authors

#	Article	IF	Citations
1	The proton-linked monocarboxylate transporter (MCT) family: structure, function and regulation. Biochemical Journal, 1999, 343, 281-299.	1.7	1,138
2	Mitochondrial permeability transition pore opening during myocardial reperfusionâ€"a target for cardioprotection. Cardiovascular Research, 2004, 61, 372-385.	1.8	1,036
3	The SLC16 gene family?from monocarboxylate transporters (MCTs) to aromatic amino acid transporters and beyond. Pflugers Archiv European Journal of Physiology, 2004, 447, 619-628.	1.3	876
4	What is the mitochondrial permeability transition pore?. Journal of Molecular and Cellular Cardiology, 2009, 46, 821-831.	0.9	797
5	The permeability transition pore complex: another view. Biochimie, 2002, 84, 153-166.	1.3	650
6	Protection by Cyclosporin A of Ischemia/Reperfusion-Induced Damage in Isolated Rat Hearts. Journal of Molecular and Cellular Cardiology, 1993, 25, 1461-1469.	0.9	549
7	The monocarboxylate transporter familyâ€"Role and regulation. IUBMB Life, 2012, 64, 109-119.	1.5	545
8	The monocarboxylate transporter familyâ€"Structure and functional characterization. IUBMB Life, 2012, 64, 1-9.	1.5	536
9	The SLC16 gene family â€" Structure, role and regulation in health and disease. Molecular Aspects of Medicine, 2013, 34, 337-349.	2.7	526
10	Oxidative Stress, Thiol Reagents, and Membrane Potential Modulate the Mitochondrial Permeability Transition by Affecting Nucleotide Binding to the Adenine Nucleotide Translocase. Journal of Biological Chemistry, 1997, 272, 3346-3354.	1.6	525
11	The Adenine Nucleotide Translocase: A Central Component of the Mitochondrial Permeability Transition Pore and Key Player in Cell Death. Current Medicinal Chemistry, 2003, 10, 1507-1525.	1.2	454
12	The mitochondrial permeability transition: A current perspective on its identity and role in ischaemia/reperfusion injury. Journal of Molecular and Cellular Cardiology, 2015, 78, 129-141.	0.9	360
13	Specific inhibition of pyruvate transport in rat liver mitochondria and human erythrocytes by Î±-cyano-4-hydroxycinnamate (<i>Short Communication</i>). Biochemical Journal, 1974, 138, 313-316.	3.2	354
14	Lactate transport in skeletal muscle - role and regulation of the monocarboxylate transporter. Journal of Physiology, 1999, 517, 633-642.	1.3	345
15	The role of mitochondria in protection of the heart by preconditioning. Biochimica Et Biophysica Acta - Bioenergetics, 2007, 1767, 1007-1031.	0.5	337
16	Sanglifehrin A Acts as a Potent Inhibitor of the Mitochondrial Permeability Transition and Reperfusion Injury of the Heart by Binding to Cyclophilin-D at a Different Site from Cyclosporin A. Journal of Biological Chemistry, 2002, 277, 34793-34799.	1.6	327
17	The role of the mitochondrial permeability transition pore in heart disease. Biochimica Et Biophysica Acta - Bioenergetics, 2009, 1787, 1402-1415.	0.5	311
18	Ischaemic Preconditioning Inhibits Opening of Mitochondrial Permeability Transition Pores in the Reperfused Rat Heart. Journal of Physiology, 2003, 549, 513-524.	1.3	295

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19	Characterisation of human monocarboxylate transporter 4 substantiates its role in lactic acid efflux from skeletal muscle. Journal of Physiology, 2000, 529, 285-293.	1.3	284
20	Monocarboxylic Acid Transport. , 2013, 3, 1611-1643.		274
21	The Mitochondrial Phosphate Carrier Interacts with Cyclophilin D and May Play a Key Role in the Permeability Transition. Journal of Biological Chemistry, 2008, 283, 26312-26323.	1.6	273
22	A pore way to die: the role of mitochondria in reperfusion injury and cardioprotection. Biochemical Society Transactions, 2010, 38, 841-860.	1.6	271
23	AR-C155858 is a potent inhibitor of monocarboxylate transporters MCT1 and MCT2 that binds to an intracellular site involving transmembrane helices 7â€“10. Biochemical Journal, 2010, 425, 523-530.	1.7	206
24	The effects of ischaemic preconditioning, diazoxide and 5â€hydroxydecanoate on rat heart mitochondrial volume and respiration. Journal of Physiology, 2002, 545, 961-974.	1.3	200
25	The mitochondrial permeability transition: its molecular mechanism and role in reperfusion injury. Biochemical Society Symposia, 1999, 66, 181-203.	2.7	176
26	Insulin and the regulation of adipose-tissue acetyl-coenzyme A carboxylase. Biochemical Journal, 1973, 132, 509-517.	3.2	167
27	Matrix volume measurements challenge the existence of diazoxide/glibencamide-sensitive KATP channels in rat mitochondria. Journal of Physiology, 2003, 547, 893-902.	1.3	155
28	A novel postsynaptic density protein: the monocarboxylate transporter MCT2 is co-localized with Î´-glutamate receptors in postsynaptic densities of parallel fiber-Purkinje cell synapses. Experimental Brain Research, 2001, 136, 523-534.	0.7	150
29	Inhibition of Mitochondrial Permeability Transition Pore Opening by Ischemic Preconditioning Is Probably Mediated by Reduction of Oxidative Stress Rather Than Mitochondrial Protein Phosphorylation. Circulation Research, 2008, 102, 1082-1090.	2.0	148
30	Effect of high-intensity exercise training on lactate/H⁺ transport capacity in human skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 1999, 276, E255-E261.	1.8	138
31	The role of succinate and ROS in reperfusion injury â€“ A critical appraisal. Journal of Molecular and Cellular Cardiology, 2017, 110, 1-14.	0.9	133
32	Cytochrome c release from isolated rat liver mitochondria can occur independently of outer-membrane rupture: possible role of contact sites. Biochemical Journal, 2000, 348, 343-350.	1.7	126
33	Studies of the membrane topology of the rat erythrocyte H+/lactate cotransporter (MCT1). Biochemical Journal, 1996, 320, 817-824.	1.7	120
34	The role of oxidized cytochrome <i>c</i> in regulating mitochondrial reactive oxygen species production and its perturbation in ischaemia. Biochemical Journal, 2011, 436, 493-505.	1.7	110
35	The â€˜mitoflashâ€™ probe cpYFP does not respond to superoxide. Nature, 2014, 514, E12-E14.	13.7	109
36	Chaotropic Agents and Increased Matrix Volume Enhance Binding of Mitochondrial Cyclophilin to the Inner Mitochondrial Membrane and Sensitize the Mitochondrial Permeability Transition to [Ca2+]Ââ€. Biochemistry, 1996, 35, 8172-8180.	1.2	108

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37	Regulation of mitochondrial metabolism through changes in matrix volume. Biochemical Society Transactions, 1994, 22, 522-529.	1.6	107
38	Mechanism of antineoplastic activity of lonidamine. Biochimica Et Biophysica Acta: Reviews on Cancer, 2016, 1866, 151-162.	3.3	107
39	Cyclosporin A and its nonimmunosuppressive analogue N-Me-Val-4-cyclosporin A mitigate glucose/oxygen deprivation-induced damage to rat cultured hippocampal neurons. European Journal of Neuroscience, 1999, 11, 3194-3198.	1.2	104
40	Mitochondria and reperfusion injury of the heartâ€"A holey death but not beyond salvation. Journal of Bioenergetics and Biomembranes, 2009, 41, 113-121.	1.0	101
41	Dual role for the ADP/ATP translocator?. Nature, 2004, 430, 984-984.	13.7	98
42	Isoform-specific regulation of the lactate transporters MCT1 and MCT4 by contractile activity. American Journal of Physiology - Endocrinology and Metabolism, 2000, 279, E1131-E1138.	1.8	93
43	The anti-tumour agent lonidamine is a potent inhibitor of the mitochondrial pyruvate carrier and plasma membrane monocarboxylate transporters. Biochemical Journal, 2016, 473, 929-936.	1.7	93
44	Lactate Transport in Heart in Relation to Myocardial Ischemia. American Journal of Cardiology, 1997, 80, 17A-25A.	0.7	88
45	Abundance and subcellular distribution of MCT1 and MCT4 in heart and fast-twitch skeletal muscles. American Journal of Physiology - Endocrinology and Metabolism, 2000, 278, E1067-E1077.	1.8	85
46	Reversal of permeability transition during recovery of hearts from ischemia and its enhancement by pyruvate. American Journal of Physiology - Heart and Circulatory Physiology, 1999, 276, H496-H502.	1.5	84
47	Temperature preconditioning of isolated rat hearts - a potent cardioprotective mechanism involving a reduction in oxidative stress and inhibition of the mitochondrial permeability transition pore. Journal of Physiology, 2007, 581, 1147-1161.	1.3	79
48	Mitochondrial calcium handling and oxidative stress. Biochemical Society Transactions, 1993, 21, 353-358.	1.6	78
49	Propofol Is Cardioprotective in a Clinically Relevant Model of Normothermic Blood Cardioplegic Arrest and Cardiopulmonary Bypass. Experimental Biology and Medicine, 2005, 230, 413-420.	1.1	60
50	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-H938.	1.5	60
51	The C Ring of the F1Fo ATP Synthase Forms the Mitochondrial Permeability Transition Pore: A Critical Appraisal. Frontiers in Oncology, 2014, 4, 234.	1.3	58
52	Stimulation of the respiratory chain of rat liver mitochondria between cytochrome c1 and cytochrome c by glucagon treatment of rats. Biochemical Journal, 1978, 172, 399-405.	1.7	50
53	Hearts from Mice Fed a Non-Obesogenic High-Fat Diet Exhibit Changes in Their Oxidative State, Calcium and Mitochondria in Parallel with Increased Susceptibility to Reperfusion Injury. PLoS ONE, 2014, 9, e100579.	1.1	50
54	Effects of tyrosine kinase inhibitors on protein kinase-independent systems. FEBS Letters, 1993, 316, 278-282.	1.3	47

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55	The role of hexokinase in cardioprotection â€“ mechanism and potential for translation. British Journal of Pharmacology, 2015, 172, 2085-2100.	2.7	47
56	Determination of the rate of K+ movement through potassium channels in isolated rat heart and liver mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 540-548.	0.5	45
57	Real-Time Fluorescence Measurements of ROS and [Ca2+] in Ischemic / Reperfused Rat Hearts: Detectable Increases Occur only after Mitochondrial Pore Opening and Are Attenuated by Ischemic Preconditioning. PLoS ONE, 2016, 11, e0167300.	1.1	44
58	Quantification of active mitochondrial permeability transition pores using GNX-4975 inhibitor titrations provides insights into molecular identity. Biochemical Journal, 2016, 473, 1129-1140.	1.7	36
59	Identification of key binding site residues of MCT1 for AR-C155858 reveals the molecular basis of its isoform selectivity. Biochemical Journal, 2015, 466, 177-188.	1.7	35
60	Mitochondrial calcium in health and disease. Biochimica Et Biophysica Acta - Bioenergetics, 2009, 1787, 1289-1290.	0.5	33
61	Consecutive pharmacological activation of PKA and PKC mimics the potent cardioprotection of temperature preconditioning. Cardiovascular Research, 2010, 88, 324-333.	1.8	28
62	Differences in the profile of protection afforded by TRO40303 and mild hypothermia in models of cardiac ischemia/reperfusion injury. European Journal of Pharmacology, 2015, 760, 7-19.	1.7	26
63	Hexokinase II and Reperfusion Injury. Circulation Research, 2013, 112, e3-7.	2.0	21
64	Maintenance of complex I and its supercomplexes by NDUF-11 is essential for mitochondrial structure, function and health. Journal of Cell Science, 2021, 134, .	1.2	17
65	The Mechanism of the Stimulation of Pyruvate Transport into Rat Liver Mitochondria by Glucagon. Biochemical Society Transactions, 1977, 5, 216-219.	1.6	15
66	Phosphorylation of branched-chain 2-oxo acid dehydrogenase within intact mitochondria. Biochemical Society Transactions, 1980, 8, 374-374.	1.6	11
67	Inhibition and labelling of the erythrocyte lactate transporter by stilbene disulphonates. Biochemical Society Transactions, 1990, 18, 1245-1246.	1.6	11
68	Apoptosis and the laws of thermodynamics. Nature Cell Biology, 2000, 2, E172-E172.	4.6	9
69	Reliability of the centrifugal filtration method for measuring mitochondrial matrix volumes. Biochemical Journal, 1988, 253, 622-623.	1.7	7
70	Hexokinase II dissociation alone cannot account for changes in heart mitochondrial function, morphology and sensitivity to permeability transition pore opening following ischemia. PLoS ONE, 2020, 15, e0234653.	1.1	6
71	Interleukin-33 regulates metabolic reprogramming of the retinal pigment epithelium in response to immune stressors. JCI Insight, 2021, 6, .	2.3	6
72	The roles of cytosolic and intramitochondrial Ca2+ and the mitochondrial Ca2+-uniporter (MCU) in the stimulation of mammalian oxidative phosphorylation. Journal of Biological Chemistry, 2020, 295, 10506.	1.6	3

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73	Purification of a 55 kDa mitochondrial protein by Î±-cyanocinnamate affinity chromatography. Biochemical Society Transactions, 1988, 16, 602-603.	1.6	2
74	The Mitochondrial Permeability Transition: Role in Ischemia/Reperfusion Injury. Sepsis, 1999, 2, 312-325.	0.5	2
75	HORMONALLY INDUCED CHANGES IN THE VOLUME OF HEPATOCYTES AND THEIR MITOCHONDRIA MEASURED IN SITU. Biochemical Society Transactions, 1981, 9, 136P-136P.	1.6	0
76	Confirmation of the interaction between the monocarboxylate transporter MCT1 and its ancillary protein CD147 using fluorescence resonance energy transfer. Biochemical Society Transactions, 2001, 29, A78-A78.	1.6	0
77	The genomic structure of the human lactate transporters MCT1 and MCT2 and evidence for alternative promoters. Biochemical Society Transactions, 2001, 29, A78-A78.	1.6	0
78	Identification of critical cysteine residues whose oxidative cross-linking regulates the mitochondrial permeability transition pore. Biochemical Society Transactions, 2001, 29, A78-A78.	1.6	0
79	Title is missing!. , 2020, 15, e0234653.		0
80	Title is missing!. , 2020, 15, e0234653.		0
81	Title is missing!. , 2020, 15, e0234653.		0
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