

Michael L Ashford

List of Publications by Year in descending order

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39
papers

3,560
citations

361296
20
h-index

330025
37
g-index

40
all docs

40
docs citations

40
times ranked

5811
citing authors

#	ARTICLE	IF	CITATIONS
1	Itaconate is an anti-inflammatory metabolite that activates Nrf2 via alkylation of KEAP1. <i>Nature</i> , 2018, 556, 113-117.	13.7	1,115
2	AMPK is essential for energy homeostasis regulation and glucose sensing by POMC and AgRP neurons. <i>Journal of Clinical Investigation</i> , 2007, 117, 2325-2336.	3.9	445
3	Glucose-induced excitation of hypothalamic neurones is mediated by ATP-sensitive K ⁺ channels. <i>Pflügers Archiv European Journal of Physiology</i> , 1990, 415, 479-483.	1.3	300
4	Susceptibility of Nrf2-Null Mice to Steatohepatitis and Cirrhosis upon Consumption of a High-Fat Diet Is Associated with Oxidative Stress, Perturbation of the Unfolded Protein Response, and Disturbance in the Expression of Metabolic Enzymes but Not with Insulin Resistance. <i>Molecular and Cellular Biology</i> , 2014, 34, 3305-3320.	1.1	187
5	Dynamic imaging of free cytosolic ATP concentration during fuel sensing by rat hypothalamic neurones: evidence for ATP-independent control of ATP-sensitive K ⁺ channels. <i>Journal of Physiology</i> , 2002, 544, 429-445.	1.3	173
6	Experimental Nonalcoholic Steatohepatitis and Liver Fibrosis Are Ameliorated by Pharmacologic Activation of Nrf2 (NF-E2 p45-Related Factor 2). <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2018, 5, 367-398.	2.3	154
7	Leptin and insulin stimulation of signalling pathways in arcuate nucleus neurones: PI3K dependent actin reorganization and KATP channel activation. <i>BMC Neuroscience</i> , 2004, 5, 54.	0.8	149
8	Neuronal development is promoted by weakened intrinsic antioxidant defences due to epigenetic repression of Nrf2. <i>Nature Communications</i> , 2015, 6, 7066.	5.8	144
9	Substrate recognition by the cell surface palmitoyl transferase DHHC5. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 17534-17539.	3.3	108
10	Reduction in BACE1 decreases body weight, protects against diet-induced obesity and enhances insulin sensitivity in mice. <i>Biochemical Journal</i> , 2012, 441, 285-296.	1.7	96
11	Dimethyl fumarate blocks pro-inflammatory cytokine production via inhibition of TLR induced M1 and K63 ubiquitin chain formation. <i>Scientific Reports</i> , 2016, 6, 31159.	1.6	89
12	Prophylactic and therapeutic treatment with a synthetic analogue of a parasitic worm product prevents experimental arthritis and inhibits IL-1 β production via NRF2-mediated counter-regulation of the inflammasome. <i>Journal of Autoimmunity</i> , 2015, 60, 59-73.	3.0	72
13	Loss of AMP-activated protein kinase α 2 subunit in mouse β 2-cells impairs glucose-stimulated insulin secretion and inhibits their sensitivity to hypoglycaemia. <i>Biochemical Journal</i> , 2010, 429, 323-333.	1.7	60
14	Palmitoylation of the Na/Ca exchanger cytoplasmic loop controls its inactivation and internalization during stress signaling. <i>FASEB Journal</i> , 2015, 29, 4532-4543.	0.2	54
15	The physiology and pathophysiology of the neural control of the counterregulatory response. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2012, 302, R215-R223.	0.9	52
16	The beta secretase BACE1 regulates the expression of insulin receptor in the liver. <i>Nature Communications</i> , 2018, 9, 1306.	5.8	49
17	Nrf2-Mediated Neuroprotection Against Recurrent Hypoglycemia Is Insufficient to Prevent Cognitive Impairment in a Rodent Model of Type 1 Diabetes. <i>Diabetes</i> , 2016, 65, 3151-3160.	0.3	34
18	Bace1-dependent amyloid processing regulates hypothalamic leptin sensitivity in obese mice. <i>Scientific Reports</i> , 2018, 8, 55.	1.6	29

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19	The BACE1 product sAPP β induces ER stress and inflammation and impairs insulin signaling. <i>Metabolism: Clinical and Experimental</i> , 2018, 85, 59-75.	1.5	26
20	Identification of Caveolar Resident Proteins in Ventricular Myocytes Using a Quantitative Proteomic Approach: Dynamic Changes in Caveolar Composition Following Adrenoceptor Activation. <i>Molecular and Cellular Proteomics</i> , 2015, 14, 596-608.	2.5	25
21	<sc>AMP</sc>-activated protein kinase (<sc>AMPK</sc>) activator <sc>A</sc>-769662 increases intracellular calcium and <sc>ATP</sc> release from astrocytes in an <sc>AMPK</sc>-independent manner. <i>Diabetes, Obesity and Metabolism</i> , 2017, 19, 997-1005.	2.2	23
22	CD44 contributes to hyaluronan-mediated insulin resistance in skeletal muscle of high-fat-fed C57BL/6 mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019, 317, E973-E983.	1.8	22
23	High-Intensity Exercise as a Dishabituating Stimulus Restores Counterregulatory Responses in Recurrently Hypoglycemic Rodents. <i>Diabetes</i> , 2017, 66, 1696-1702.	0.3	20
24	BACE1 activity impairs neuronal glucose oxidation: rescue by beta-hydroxybutyrate and lipoic acid. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 382.	1.8	19
25	AMPK modulates glucose-sensing in insulin-secreting cells by altered phosphotransfer to KATP channels. <i>Journal of Bioenergetics and Biomembranes</i> , 2013, 45, 229-241.	1.0	18
26	Non-canonical Keap1-independent activation of Nrf2 in astrocytes by mild oxidative stress. <i>Redox Biology</i> , 2021, 47, 102158.	3.9	18
27	Altered amyloid precursor protein processing regulates glucose uptake and oxidation in cultured rodent myotubes. <i>Diabetologia</i> , 2014, 57, 1684-1692.	2.9	16
28	Mice Lacking beta2-Integrin Function Remain Glucose Tolerant in Spite of Insulin Resistance, Neutrophil Infiltration and Inflammation. <i>PLoS ONE</i> , 2015, 10, e0138872.	1.1	14
29	Adipocyte integrin-linked kinase plays a key role in the development of diet-induced adipose insulin resistance in male mice. <i>Molecular Metabolism</i> , 2021, 49, 101197.	3.0	14
30	Oleate induces K ATP channel-dependent hyperpolarization in mouse hypothalamic glucose-excited neurons without altering cellular energy charge. <i>Neuroscience</i> , 2017, 346, 29-42.	1.1	9
31	Calcium Channel CaV2.3 Subunits Regulate Hepatic Glucose Production by Modulating Leptin-Induced Excitation of Arcuate Pro-opiomelanocortin Neurons. <i>Cell Reports</i> , 2018, 25, 278-287.e4.	2.9	9
32	BVT.3531 reduces body weight and activates KATP channels in isolated arcuate neurons in rats. <i>Regulatory Peptides</i> , 2007, 141, 19-24.	1.9	4
33	Chronic exposure to KATP channel openers results in attenuated glucose sensing in hypothalamic GT1-7 neurons. <i>Neuropharmacology</i> , 2016, 111, 212-222.	2.0	4
34	The aminoguanidine carboxylate BVT.12777 activates ATP-sensitive K ⁺ channels in the rat insulinoma cell line, CRI-G1. <i>BMC Pharmacology</i> , 2004, 4, 17.	0.4	3
35	Continuous hypothalamic KATP activation blunts glucose counter-regulation in vivo in rats and suppresses KATP conductance in vitro. <i>Diabetologia</i> , 2013, 56, 2088-2092.	2.9	3
36	Central deficiency of IL-6Ra in mice impairs glucose-stimulated insulin secretion. <i>Molecular Metabolism</i> , 2022, 61, 101488.	3.0	2

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37	Identifying the beta-site amyloid precursor protein cleaving enzyme 1 interactome through the proximity-dependent biotin identification assay. <i>Neuroscience Letters</i> , 2021, , 136302.	1.0	1
38	Hypoglycaemia: Exercise for the Brain?. <i>Journal of Neuroendocrinology</i> , 2012, 24, 1365-1366.	1.2	0
39	The genetic association of the transcription factor NPAT with glycemic response to metformin involves regulation of fuel selection. <i>PLoS ONE</i> , 2021, 16, e0253533.	1.1	0