

Michael L Ashford

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

39
papers

2,503
citations

19
h-index

40
g-index

40
ext. papers

3,074
ext. citations

7.8
avg, IF

4.27
L-index

#	Paper	IF	Citations
39	Itaconate is an anti-inflammatory metabolite that activates Nrf2 via alkylation of KEAP1. <i>Nature</i> , 2018 , 556, 113-117	50.4	609
38	AMPK is essential for energy homeostasis regulation and glucose sensing by POMC and AgRP neurons. <i>Journal of Clinical Investigation</i> , 2007 , 117, 2325-36	15.9	377
37	Glucose-induced excitation of hypothalamic neurones is mediated by ATP-sensitive K ⁺ channels. <i>Pflugers Archiv European Journal of Physiology</i> , 1990 , 415, 479-83	4.6	266
36	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, 429-45	3.9	151
35	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, 3305-20	4.8	141
34	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	3.2	131
33	Neuronal development is promoted by weakened intrinsic antioxidant defences due to epigenetic repression of Nrf2. <i>Nature Communications</i> , 2015 , 6, 7066	17.4	101
32	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	7.9	101
31	Reduction in BACE1 decreases body weight, protects against diet-induced obesity and enhances insulin sensitivity in mice. <i>Biochemical Journal</i> , 2012 , 441, 285-96	3.8	77
30	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, 17534-9	11.5	71
29	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	15.5	61
28	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	4.9	60
27	Loss of AMP-activated protein kinase alpha2 subunit in mouse beta-cells impairs glucose-stimulated insulin secretion and inhibits their sensitivity to hypoglycaemia. <i>Biochemical Journal</i> , 2010 , 429, 323-33	3.8	48
26	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, R215-23	3.2	41
25	Palmitoylation of the Na/Ca exchanger cytoplasmic loop controls its inactivation and internalization during stress signaling. <i>FASEB Journal</i> , 2015 , 29, 4532-43	0.9	35
24	The beta secretase BACE1 regulates the expression of insulin receptor in the liver. <i>Nature Communications</i> , 2018 , 9, 1306	17.4	25
23	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, 3151-60	0.9	24

22	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	7.6	22
21	Bace1-dependent amyloid processing regulates hypothalamic leptin sensitivity in obese mice. <i>Scientific Reports</i> , 2018 , 8, 55	4.9	20
20	AMP-activated protein kinase (AMPK) activator A-769662 increases intracellular calcium and ATP release from astrocytes in an AMPK-independent manner. <i>Diabetes, Obesity and Metabolism</i> , 2017 , 19, 997-1005	6.7	16
19	High-Intensity Exercise as a Dishabituating Stimulus Restores Counterregulatory Responses in Recurrently Hypoglycemic Rodents. <i>Diabetes</i> , 2017 , 66, 1696-1702	0.9	16
18	AMPK modulates glucose-sensing in insulin-secreting cells by altered phosphotransfer to KATP channels. <i>Journal of Bioenergetics and Biomembranes</i> , 2013 , 45, 229-41	3.7	16
17	The BACE1 product sAPP β induces ER stress and inflammation and impairs insulin signaling. <i>Metabolism: Clinical and Experimental</i> , 2018 , 85, 59-75	12.7	15
16	BACE1 activity impairs neuronal glucose oxidation: rescue by beta-hydroxybutyrate and lipoic acid. <i>Frontiers in Cellular Neuroscience</i> , 2015 , 9, 382	6.1	15
15	Mice Lacking beta2-Integrin Function Remain Glucose Tolerant in Spite of Insulin Resistance, Neutrophil Infiltration and Inflammation. <i>PLoS ONE</i> , 2015 , 10, e0138872	3.7	14
14	Altered amyloid precursor protein processing regulates glucose uptake and oxidation in cultured rodent myotubes. <i>Diabetologia</i> , 2014 , 57, 1684-92	10.3	13
13	Oleate induces K channel-dependent hyperpolarization in mouse hypothalamic glucose-excited neurons without altering cellular energy charge. <i>Neuroscience</i> , 2017 , 346, 29-42	3.9	9
12	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	6	6
11	Calcium Channel Ca _v 2.3 Subunits Regulate Hepatic Glucose Production by Modulating Leptin-Induced Excitation of Arcuate Pro-opiomelanocortin Neurons. <i>Cell Reports</i> , 2018 , 25, 278-287.e4	10.6	4
10	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	8.8	4
9	Continuous hypothalamic K(ATP) activation blunts glucose counter-regulation in vivo in rats and suppresses K(ATP) conductance in vitro. <i>Diabetologia</i> , 2013 , 56, 2088-92	10.3	3
8	BVT.3531 reduces body weight and activates K(ATP) channels in isolated arcuate neurons in rats. <i>Regulatory Peptides</i> , 2007 , 141, 19-24		3
7	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		3
6	Chronic exposure to K channel openers results in attenuated glucose sensing in hypothalamic GT1-7 neurons. <i>Neuropharmacology</i> , 2016 , 111, 212-222	5.5	3
5	Non-canonical Keap1-independent activation of Nrf2 in astrocytes by mild oxidative stress. <i>Redox Biology</i> , 2021 , 47, 102158	11.3	2

4	Identifying the beta-site amyloid precursor protein cleaving enzyme 1 interactome through the proximity-dependent biotin identification assay. <i>Neuroscience Letters</i> , 2021 , 136302	3.3	o
3	Hypoglycaemia: exercise for the brain?. <i>Journal of Neuroendocrinology</i> , 2012 , 24, 1365-6	3.8	
2	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	3.7	
1	Central deficiency of IL-6Ra in mice impairs glucose-stimulated insulin secretion.. <i>Molecular Metabolism</i> , 2022 , 101488	8.8	