Calum D Sutherland

List of Publications by Year
in descending order

83 papers	6,514 citations	70961 41 h-index	64668 79 g-index
86 all docs	86 docs citations	86 times ranked	10694 citing authors

#	Article	IF	Citations
1	Filaggrin in the frontline: role in skin barrier function and disease. Journal of Cell Science, 2009, 122, 1285-1294.	1.2	672
2	Common variants near ATM are associated with glycemic response to metformin in type 2 diabetes. Nature Genetics, 2011, 43, 117-120.	9.4	390
3	Biguanide metformin acts on tau phosphorylation via mTOR/protein phosphatase 2A (PP2A) signaling. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21830-21835.	3.3	360
4	What Are thebona fideGSK3 Substrates?. International Journal of Alzheimer's Disease, 2011, 2011, 1-23.	1.1	259
5	GSK-3 Phosphorylation of the Alzheimer Epitope within Collapsin Response Mediator Proteins Regulates Axon Elongation in Primary Neurons. Journal of Biological Chemistry, 2004, 279, 50176-50180.	1.6	234
6	The Î±-isoform of glycogen synthase kinase-3 from rabbit skeletal muscle is inactivated by p70 S6 kinase or MAP kinase-activated protein kinase-1 in vitro. FEBS Letters, 1994, 338, 37-42.	1.3	222
7	Distinct Priming Kinases Contribute to Differential Regulation of Collapsin Response Mediator Proteins by Glycogen Synthase Kinase-3 in Vivo*. Journal of Biological Chemistry, 2006, 281, 16591-16598.	1.6	198
8	Variation in the glucose transporter gene SLC2A2 is associated with glycemic response to metformin. Nature Genetics, 2016, 48, 1055-1059.	9.4	165
9	Phosphorylation and activation of human tyrosine hydroxylase in vitro by mitogen-activated protein (MAP) kinase and MAP-kinase-activated kinases 1 and 2. FEBS Journal, 1993, 217, 715-722.	0.2	164
10	Collapsin response mediator proteinâ€2 hyperphosphorylation is an early event in Alzheimerâ€™s disease progression. Journal of Neurochemistry, 2007, 103, 1132-1144.	2.1	158
11	Dynamin I phosphorylation by GSK3 controls activity-dependent bulk endocytosis of synaptic vesicles. Nature Neuroscience, 2010, 13, 845-851.	7.1	156
12	Leptin and insulin stimulation of signalling pathways in arcuate nucleus neurones: PI3K dependent actin reorganization and KATP channel activation. BMC Neuroscience, 2004, 5, 54.	0.8	149
13	Molecular connexions between dementia and diabetes. Neuroscience and Biobehavioral Reviews, 2007, 31, 1046-1063.	2.9	148
14	Dual regulation of transcription factor Nrf2 by Keap1 and by the combined actions of Î²-TrCP and GSK-3. Biochemical Society Transactions, 2015, 43, 611-620.	1.6	143
15	Phosphatidylinositol 3-Kinase, but Not p70/p85 Ribosomal S6 Protein Kinase, Is Required for the Regulation of Phosphoenolpyruvate Carboxykinase (PEPCK) Gene Expression by Insulin. Journal of Biological Chemistry, 1995, 270, 15501-15506.	1.6	142
16	Identification of insulin-stimulated protein kinase-1 as the rabbit equivalent of rskmo-2. Identification of two threonines phosphorylated during activation by mitogen-activated protein kinase. FEBS Journal, 1993, 212, 581-588.	0.2	141
17	The LKB1-salt-inducible kinase pathway functions as a key gluconeogenic suppressor in the liver. Nature Communications, 2014, 5, 4535.	5.8	131
18	Insulin Regulation of Phosphoenolpyruvate Carboxykinase Gene Expression Does Not Require Activation of the Ras/Mitogen-activated Protein Kinase Signaling Pathway. Journal of Biological Chemistry, 1996, 271, 1890-1897.	1.6	127

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19	Mutation of the PDK1 PH Domain Inhibits Protein Kinase B/Akt, Leading to Small Size and Insulin Resistance. Molecular and Cellular Biology, 2008, 28, 3258-3272.	1.1	115
20	Analysis of the Signaling Pathway Involved in the Regulation of Hexokinase II Gene Transcription by Insulin. Journal of Biological Chemistry, 1996, 271, 16690-16694.	1.6	109
21	Evidence that glycogen synthase kinaseâ€3 isoforms have distinct substrate preference in the brain. Journal of Neurochemistry, 2010, 115, 974-983.	2.1	107
22	GSK3Î² Regulates Myelin-Dependent Axon Outgrowth Inhibition through CRMP4. Journal of Neuroscience, 2010, 30, 5635-5643.	1.7	99
23	Dominant Negative Forms of Akt (Protein Kinase B) and Atypical Protein Kinase CÎ» Do Not Prevent Insulin Inhibition of Phosphoenolpyruvate Carboxykinase Gene Transcription. Journal of Biological Chemistry, 1999, 274, 21305-21312.	1.6	93
24	5-Aminoimidazole-4-Carboxamide 1-Î²-d-Ribofuranoside Acutely Stimulates Skeletal Muscle 2-Deoxyglucose Uptake in Healthy Men. Diabetes, 2007, 56, 2078-2084.	0.3	93
25	AMP-activated Protein Kinase Mediates Phenobarbital Induction of CYP2B Gene Expression in Hepatocytes and a Newly Derived Human Hepatoma Cell Line. Journal of Biological Chemistry, 2005, 280, 4367-4373.	1.6	92
26	Zhou et al. reply. Nature Genetics, 2012, 44, 361-362.	9.4	89
27	Characterization of a Protein Kinase B Inhibitor In Vitro and in Insulin-Treated Liver Cells. Diabetes, 2007, 56, 2218-2227.	0.3	87
28	Deficiency of PDK1 in liver results in glucose intolerance, impairment of insulin-regulated gene expression and liver failure. Biochemical Journal, 2005, 385, 639-648.	1.7	84
29	Differential Proteomics Analysis of Synaptic Proteins Identifies Potential Cellular Targets and Protein Mediators of Synaptic Neuroprotection Conferred by the Slow Wallerian Degeneration (Wld) Gene. Molecular and Cellular Proteomics, 2007, 6, 1318-1330.	2.5	82
30	High fat feeding promotes simultaneous decline in insulin sensitivity and cognitive performance in a delayed matching and non-matching to position task. Behavioural Brain Research, 2011, 217, 134-141.	1.2	79
31	A partnership with the proteasome; the destructive nature of GSK3. Biochemical Pharmacology, 2018, 147, 77-92.	2.0	76
32	A high-fat-diet-induced cognitive deficit in rats that is not prevented by improving insulin sensitivity with metformin. Diabetologia, 2012, 55, 3061-3070.	2.9	72
33	Neuronal deletion of GSK3Î² increases microtubule speed in the growth cone and enhances axon regeneration via CRMP-2 and independently of MAP1B and CLASP2. BMC Biology, 2014, 12, 47.	1.7	72
34	Insulin resistance in the brain: An old-age or new-age problem?. Biochemical Pharmacology, 2012, 84, 737-745.	2.0	61
35	Heat Shock Factor 1 Is a Substrate for p38 Mitogen-Activated Protein Kinases. Molecular and Cellular Biology, 2016, 36, 2403-2417.	1.1	61
36	CRMP2 Hyperphosphorylation is Characteristic of Alzheimer's Disease and not a Feature Common to Other Neurodegenerative Diseases. Journal of Alzheimer's Disease, 2011, 27, 615-625.	1.2	59

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37	The Molecular Physiology of Hepatic Nuclear Factor 3 in the Regulation of Gluconeogenesis. Journal of Biological Chemistry, 2000, 275, 14717-14721.	1.6	58
38	Constitutive Activation of GSK3 Down-regulates Glycogen Synthase Abundance and Glycogen Deposition in Rat Skeletal Muscle Cells. Journal of Biological Chemistry, 2005, 280, 9509-9518.	1.6	53
39	Activation of the Ras Mitogen-activated Protein Kinase-Ribosomal Protein Kinase Pathway Is Not Required for the Repression of Phosphoenolpyruvate Carboxykinase Gene Transcription by Insulin. Journal of Biological Chemistry, 1998, 273, 3198-3204.	1.6	49
40	Implications of genome wide association studies for the understanding of type 2 diabetes pathophysiology. Biochemical Pharmacology, 2011, 81, 471-477.	2.0	49
41	High fat feeding is associated with stimulation of the hypothalamic-pituitary-adrenal axis and reduced anxiety in the rat. Psychoneuroendocrinology, 2015, 52, 272-280.	1.3	43
42	Relative Resistance of Cdk5-phosphorylated CRMP2 to Dephosphorylation. Journal of Biological Chemistry, 2008, 283, 18227-18237.	1.6	42
43	NF-Î²B Inhibits Glucocorticoid and cAMP-mediated Expression of the Phosphoenolpyruvate Carboxykinase Gene. Journal of Biological Chemistry, 2000, 275, 31847-31856.	1.6	40
44	Insulin Regulation of Insulin-like Growth Factor-binding Protein-1 Gene Expression Is Dependent on the Mammalian Target of Rapamycin, but Independent of Ribosomal S6 Kinase Activity. Journal of Biological Chemistry, 2002, 277, 9889-9895.	1.6	40
45	Glycogen synthase kinase-3 regulates IGFBP-1 gene transcription through the thymine-rich insulin response element. BMC Molecular Biology, 2004, 5, 15.	3.0	40
46	Insulin resistance in polycystic ovary syndrome is associated with defective regulation of ERK1/2 by insulin in skeletal muscle in vivo. Biochemical Journal, 2009, 418, 665-671.	1.7	39
47	Prolyl Isomerase Pin1 Regulates Axon Guidance by Stabilizing CRMP2A Selectively in Distal Axons. Cell Reports, 2015, 13, 812-828.	2.9	39
48	Tumour necrosis factor Î± decreases glucose-6-phosphatase gene expression by activation of nuclear factor Î²B. Biochemical Journal, 2004, 382, 471-479.	1.7	36
49	A novel regulation of IRS1 (insulin receptor substrate-1) expression following short term insulin administration. Biochemical Journal, 2005, 392, 345-352.	1.7	35
50	Leptin-dependent Phosphorylation of PTEN Mediates Actin Restructuring and Activation of ATP-sensitive K+ Channels. Journal of Biological Chemistry, 2009, 284, 9331-9340.	1.6	34
51	Blunting of AICAR-induced human skeletal muscle glucose uptake in type 2 diabetes is dependent on age rather than diabetic status. American Journal of Physiology - Endocrinology and Metabolism, 2009, 296, E1042-E1048.	1.8	28
52	CNP/cGMP signaling regulates axon branching and growth by modulating microtubule polymerization. Developmental Neurobiology, 2013, 73, 673-687.	1.5	28
53	Obesity-Induced Insulin Resistance in Human Skeletal Muscle Is Characterised by Defective Activation of p42/p44 MAP Kinase. PLoS ONE, 2013, 8, e56928.	1.1	24
54	Phosphorylation of a splice variant of collapsin response mediator protein 2 in the nucleus of tumour cells links cyclin dependent kinase-5 to oncogenesis. BMC Cancer, 2015, 15, 885.	1.1	23

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55	Analysis of hepatic gene transcription in mice expressing insulin-insensitive GSK3. Biochemical Journal, 2005, 392, 633-639.	1.7	22
56	Measuring GSK3 Expression and Activity in Cells. Methods in Molecular Biology, 2008, 468, 45-65.	0.4	22
57	Bioinformatic Prediction and Confirmation of Î²-Adducin as a Novel Substrate of Glycogen Synthase Kinase 3. Journal of Biological Chemistry, 2011, 286, 25274-25283.	1.6	22
58	Esterification and absorption of cholesterol: in vitro and in vivo observations in the rat. Lipids and Lipid Metabolism, 1989, 1003, 213-216.	2.6	21
59	Dissection of the protein kinase cascades involved in insulin and nerve growth factor action. Biochemical Society Transactions, 1992, 20, 671-674.	1.6	18
60	Insulin regulation of hepatic insulin-like growth factor-binding protein-1 (IGFBP-1) gene expression and mammalian target of rapamycin (mTOR) signalling is impaired by the presence of hydrogen peroxide. Biochemical Journal, 2002, 365, 537-545.	1.7	17
61	Anaesthesia generates neuronal insulin resistance by inducing hypothermia. BMC Neuroscience, 2008, 9, 100.	0.8	17
62	Identification of a Proline-rich Inositol Polyphosphate 5-Phosphatase (PIPP)Â·Collapsin Response Mediator Protein 2 (CRMP2) Complex That Regulates Neurite Elongation. Journal of Biological Chemistry, 2011, 286, 23407-23418.	1.6	17
63	Loss of CRMP2 O-GlcNAcylation leads to reduced novel object recognition performance in mice. Open Biology, 2019, 9, 190192.	1.5	17
64	Different mechanisms are used by insulin to repress three genes that contain a homologous thymine-rich insulin response element. FEBS Letters, 2003, 549, 72-76.	1.3	16
65	Antagonistic effects of phorbol esters on insulin regulation of insulin-like growth factor-binding protein-1 (IGFBP-1) but not glucose-6-phosphatase gene expression. Biochemical Journal, 2001, 359, 611-619.	1.7	15
66	Recruitment, Retainment, and Biomarkers of Response; A Pilot Trial of Lithium in Humans With Mild Cognitive Impairment. Frontiers in Molecular Neuroscience, 2019, 12, 163.	1.4	15
67	Dissecting Insulin Signaling Pathways: Individualised Therapeutic Targets for Diagnosis and Treatment of Insulin Resistant States. Endocrine, Metabolic and Immune Disorders - Drug Targets, 2009, 9, 187-198.	0.6	14
68	Regulation of the CNC-bZIP transcription factor Nrf2 by Keap1 and the axis between GSK-3 and Î²-TrCP. Current Opinion in Toxicology, 2016, 1, 92-103.	2.6	14
69	Novel Procedure To Investigate the Effect of Phosphorylation on Protein Complex Formation in Vitro and in Cells. Biochemistry, 2008, 47, 2153-2161.	1.2	13
70	Antagonistic effects of phorbol esters on insulin regulation of insulin-like growth factor-binding protein-1 (IGFBP-1) but not glucose-6-phosphatase gene expression. Biochemical Journal, 2001, 359, 611.	1.7	10
71	Hypertension Fails to Disrupt White Matter Integrity in Young Or Aged Fisher (F44) Cyp1a1Ren2 Transgenic Rats. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 188-192.	2.4	10
72	A temporal switch in the insulin-signalling pathway that regulates hepatic IGF-binding protein-1 gene expression. Journal of Molecular Endocrinology, 2006, 37, 227-237.	1.1	8

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73	Invited commentary. British Journal of Psychiatry, 2015, 207, 52-54.	1.7	8
74	Investigation of salicylate hepatic responses in comparison with chemical analogues of the drug. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2016, 1862, 1412-1422.	1.8	8
75	Rab-GTPase binding effector protein 2 (RABEP2) is a primed substrate for Glycogen Synthase kinase-3 (GSK3). Scientific Reports, 2017, 7, 17682.	1.6	5
76	The aminoguanidine carboxylate BVT.12777 activates ATP-sensitive K+ channels in the rat insulinoma cell line, CRI-G1. BMC Pharmacology, 2004, 4, 17.	0.4	3
77	Generation, validation and humanisation of a novel insulin resistant cell model. Biochemical Pharmacology, 2010, 80, 1042-1049.	2.0	3
78	Reducing Glut2 throughout the body does not result in cognitive behaviour differences in aged male mice. BMC Research Notes, 2020, 13, 438.	0.6	2
79	Proinsulin is stable at room temperature for 24 hours in EDTA: A clinical laboratory analysis (adAPT) Tj ETQq1 1 0.784314 rgBT /Overlo	1.1	2
80	Insulin Action Gene Regulation. , 2007, , 110-132.		0
81	Convergence of leptin and insulin signaling networks in obesity. , 0, , 127-163.		0
82	New developments for prevention of type 1 diabetes: a paradigm shift?. British Journal of Hospital Medicine (London, England: 2005), 2019, 80, 4-5.	0.2	0
83	The genetic association of the transcription factor NPAT with glycemic response to metformin involves regulation of fuel selection. PLoS ONE, 2021, 16, e0253533.	1.1	0