# Calum D Sutherland

## List of Publications by Year in Descending Order

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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.

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|---|---|---|---|
| 83 papers | 5,431 citations | 40 h-index | 73 g-index |
| 86 ext. papers | 5,961 ext. citations | 6.4 avg, IF | 5.38 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 83 | The genetic association of the transcription factor NPAT with glycemic response to metformin involves regulation of fuel selection. *PLoS ONE*, **2021**, 16, e0253533 | 3.7 | |
| 82 | Reducing Glut2 throughout the body does not result in cognitive behaviour differences in aged male mice. *BMC Research Notes*, **2020**, 13, 438 | 2.3 | 0 |
| 81 | Recruitment, Retainment, and Biomarkers of Response; A Pilot Trial of Lithium in Humans With Mild Cognitive Impairment. *Frontiers in Molecular Neuroscience*, **2019**, 12, 163 | 6.1 | 6 |
| 80 | Loss of CRMP2 O-GlcNAcylation leads to reduced novel object recognition performance in mice. *Open Biology*, **2019**, 9, 190192 | 7 | 9 |
| 79 | A partnership with the proteasome; the destructive nature of GSK3. *Biochemical Pharmacology*, **2018**, 147, 77-92 | 6 | 46 |
| 78 | Rab-GTPase binding effector protein 2 (RABEP2) is a primed substrate for Glycogen Synthase kinase-3 (GSK3). *Scientific Reports*, **2017**, 7, 17682 | 4.9 | 4 |
| 77 | Proinsulin is stable at room temperature for 24 hours in EDTA: A clinical laboratory analysis (adAPT 3). *PLoS ONE*, **2017**, 12, e0171716 | 3.7 | 2 |
| 76 | Regulation of the CNC-bZIP transcription factor Nrf2 by Keap1 and the axis between GSK-3 and □TrCP. *Current Opinion in Toxicology*, **2016**, 1, 92-103 | 4.4 | 12 |
| 75 | Investigation of salicylate hepatic responses in comparison with chemical analogues of the drug. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2016**, 1862, 1412-22 | 6.9 | 7 |
| 74 | Heat Shock Factor 1 Is a Substrate for p38 Mitogen-Activated Protein Kinases. *Molecular and Cellular Biology*, **2016**, 36, 2403-17 | 4.8 | 44 |
| 73 | Variation in the glucose transporter gene SLC2A2 is associated with glycemic response to metformin. *Nature Genetics*, **2016**, 48, 1055-1059 | 36.3 | 108 |
| 72 | Invited commentary on □Lithium treatment and risk for dementia in adults with bipolar disorder. *British Journal of Psychiatry*, **2015**, 207, 52-4 | 5.4 | 6 |
| 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, 188-92 | 7.3 | 5 |
| 70 | Dual regulation of transcription factor Nrf2 by Keap1 and by the combined actions of □TrCP and GSK-3. *Biochemical Society Transactions*, **2015**, 43, 611-20 | 5.1 | 104 |
| 69 | Prolyl Isomerase Pin1 Regulates Axon Guidance by Stabilizing CRMP2A Selectively in Distal Axons. *Cell Reports*, **2015**, 13, 812-828 | 10.6 | 29 |
| 68 | 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 | 4.8 | 20 |
| 67 | High fat feeding is associated with stimulation of the hypothalamic-pituitary-adrenal axis and reduced anxiety in the rat. *Psychoneuroendocrinology*, **2015**, 52, 272-80 | 5 | 34 |

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| 66 | The LKB1-salt-inducible kinase pathway functions as a key gluconeogenic suppressor in the liver. *Nature Communications*, **2014**, 5, 4535 | 17.4 | 99 |
| 65 | Neuronal deletion of GSK3β 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 | 7.3 | 58 |
| 64 | CNP/cGMP signaling regulates axon branching and growth by modulating microtubule polymerization. *Developmental Neurobiology*, **2013**, 73, 673-87 | 3.2 | 15 |
| 63 | Obesity-induced insulin resistance in human skeletal muscle is characterised by defective activation of p42/p44 MAP kinase. *PLoS ONE*, **2013**, 8, e56928 | 3.7 | 21 |
| 62 | A high-fat-diet-induced cognitive deficit in rats that is not prevented by improving insulin sensitivity with metformin. *Diabetologia*, **2012**, 55, 3061-70 | 10.3 | 63 |
| 61 | Insulin resistance in the brain: an old-age or new-age problem?. *Biochemical Pharmacology*, **2012**, 84, 737-45 | 6 | 54 |
| 60 | The role of ATM in response to metformin treatment and activation of AMPK. *Nature Genetics*, **2012**, 44, 361-2 | 36.3 | 40 |
| 59 | CRMP2 hyperphosphorylation is characteristic of Alzheimer's disease and not a feature common to other neurodegenerative diseases. *Journal of Alzheimer's Disease*, **2011**, 27, 615-25 | 4.3 | 47 |
| 58 | 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, 134-41 | 3.4 | 72 |
| 57 | What Are the bona fide GSK3 Substrates?. *International Journal of Alzheimer's Disease*, **2011**, 2011, 505607 | 37 | 207 |
| 56 | Common variants near ATM are associated with glycemic response to metformin in type 2 diabetes. *Nature Genetics*, **2011**, 43, 117-20 | 36.3 | 319 |
| 55 | Implications of genome wide association studies for the understanding of type 2 diabetes pathophysiology. *Biochemical Pharmacology*, **2011**, 81, 471-7 | 6 | 42 |
| 54 | Identification of a proline-rich inositol polyphosphate 5-phosphatase (PIPP)–collapsin response mediator protein 2 (CRMP2) complex that regulates neurite elongation. *Journal of Biological Chemistry*, **2011**, 286, 23407-18 | 5.4 | 15 |
| 53 | Bioinformatic prediction and confirmation of beta-adducin as a novel substrate of glycogen synthase kinase 3. *Journal of Biological Chemistry*, **2011**, 286, 25274-83 | 5.4 | 17 |
| 52 | Evidence that glycogen synthase kinase-3 isoforms have distinct substrate preference in the brain. *Journal of Neurochemistry*, **2010**, 115, 974-83 | 6 | 88 |
| 51 | Dynamin I phosphorylation by GSK3 controls activity-dependent bulk endocytosis of synaptic vesicles. *Nature Neuroscience*, **2010**, 13, 845-51 | 25.5 | 124 |
| 50 | GSK3 beta regulates myelin-dependent axon outgrowth inhibition through CRMP4. *Journal of Neuroscience*, **2010**, 30, 5635-43 | 6.6 | 87 |
| 49 | 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, 21830-5 | 11.5 | 289 |

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|---|---|---|---|
| 48 | Generation, validation and humanisation of a novel insulin resistant cell model. *Biochemical Pharmacology*, **2010**, 80, 1042-9 | 6 | 3 |
| 47 | Leptin-dependent phosphorylation of PTEN mediates actin restructuring and activation of ATP-sensitive K+ channels. *Journal of Biological Chemistry*, **2009**, 284, 9331-40 | 5.4 | 33 |
| 46 | 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, E1042-8 | 6 | 26 |
| 45 | Filaggrin in the frontline: role in skin barrier function and disease. *Journal of Cell Science*, **2009**, 122, 1285-94 | 5.3 | 536 |
| 44 | Dissecting insulin signaling pathways: individualised therapeutic targets for diagnosis and treatment of insulin resistant states. *Endocrine, Metabolic and Immune Disorders - Drug Targets*, **2009**, 9, 187-98 | 2.2 | 12 |
| 43 | 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, 665-71 | 3.8 | 30 |
| 42 | Anaesthesia generates neuronal insulin resistance by inducing hypothermia. *BMC Neuroscience*, **2008**, 9, 100 | 3.2 | 15 |
| 41 | Measuring GSK3 expression and activity in cells. *Methods in Molecular Biology*, **2008**, 468, 45-65 | 1.4 | 18 |
| 40 | Novel procedure to investigate the effect of phosphorylation on protein complex formation in vitro and in cells. *Biochemistry*, **2008**, 47, 2153-61 | 3.2 | 11 |
| 39 | Relative resistance of Cdk5-phosphorylated CRMP2 to dephosphorylation. *Journal of Biological Chemistry*, **2008**, 283, 18227-37 | 5.4 | 41 |
| 38 | Mutation of the PDK1 PH domain inhibits protein kinase B/Akt, leading to small size and insulin resistance. *Molecular and Cellular Biology*, **2008**, 28, 3258-72 | 4.8 | 98 |
| 37 | Collapsin response mediator protein-2 hyperphosphorylation is an early event in Alzheimer's disease progression. *Journal of Neurochemistry*, **2007**, 103, 1132-44 | 6 | 136 |
| 36 | Molecular connexions between dementia and diabetes. *Neuroscience and Biobehavioral Reviews*, **2007**, 31, 1046-63 | 9 | 119 |
| 35 | Differential proteomics analysis of synaptic proteins identifies potential cellular targets and protein mediators of synaptic neuroprotection conferred by the slow Wallerian degeneration (Wlds) gene. *Molecular and Cellular Proteomics*, **2007**, 6, 1318-30 | 7.6 | 73 |
| 34 | 5-aminoimidazole-4-carboxamide 1-beta-D-ribofuranoside acutely stimulates skeletal muscle 2-deoxyglucose uptake in healthy men. *Diabetes*, **2007**, 56, 2078-84 | 0.9 | 86 |
| 33 | Insulin Action Gene Regulation **2007**, 110-132 | | |
| 32 | Characterization of a protein kinase B inhibitor in vitro and in insulin-treated liver cells. *Diabetes*, **2007**, 56, 2218-27 | 0.9 | 79 |
| 31 | 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, 16591-8 | 5.4 | 167 |

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|---|---|---|---|
| 30 | A temporal switch in the insulin-signalling pathway that regulates hepatic IGF-binding protein-1 gene expression. *Journal of Molecular Endocrinology*, **2006**, 37, 227-37 | 4.5 | 8 |
| 29 | Deficiency of PDK1 in liver results in glucose intolerance, impairment of insulin-regulated gene expression and liver failure. *Biochemical Journal*, **2005**, 385, 639-48 | 3.8 | 77 |
| 28 | Analysis of hepatic gene transcription in mice expressing insulin-insensitive GSK3. *Biochemical Journal*, **2005**, 392, 633-9 | 3.8 | 20 |
| 27 | A novel regulation of IRS1 (insulin receptor substrate-1) expression following short term insulin administration. *Biochemical Journal*, **2005**, 392, 345-52 | 3.8 | 30 |
| 26 | Constitutive activation of GSK3 down-regulates glycogen synthase abundance and glycogen deposition in rat skeletal muscle cells. *Journal of Biological Chemistry*, **2005**, 280, 9509-18 | 5.4 | 51 |
| 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, 4367-73 | 5.4 | 85 |
| 24 | GSK-3 phosphorylation of the Alzheimer epitope within collapsin response mediator proteins regulates axon elongation in primary neurons. *Journal of Biological Chemistry*, **2004**, 279, 50176-80 | 5.4 | 211 |
| 23 | Leptin and insulin stimulation of signalling pathways in arcuate nucleus neurones: PI3K dependent actin reorganization and KATP channel activation. *BMC Neuroscience*, **2004**, 5, 54 | 3.2 | 131 |
| 22 | Glycogen synthase kinase-3 regulates IGFBP-1 gene transcription through the thymine-rich insulin response element. *BMC Molecular Biology*, **2004**, 5, 15 | 4.5 | 34 |
| 21 | The aminoguanidine carboxylate BVT.12777 activates ATP-sensitive K+ channels in the rat insulinoma cell line, CRI-G1. *BMC Pharmacology*, **2004**, 4, 17 | | 3 |
| 20 | Tumour necrosis factor alpha decreases glucose-6-phosphatase gene expression by activation of nuclear factor kappaB. *Biochemical Journal*, **2004**, 382, 471-9 | 3.8 | 31 |
| 19 | Different mechanisms are used by insulin to repress three genes that contain a homologous thymine-rich insulin response element. *FEBS Letters*, **2003**, 549, 72-6 | 3.8 | 15 |
| 18 | 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, 9889-95 | 5.4 | 36 |
| 17 | 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, 537-45 | 3.8 | 17 |
| 16 | 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, 611-9 | 3.8 | 8 |
| 15 | 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 | 3.8 | 12 |
| 14 | Genetic Regulation of Glucose Metabolism **2001**, 707-732 | | 1 |
| 13 | The molecular physiology of hepatic nuclear factor 3 in the regulation of gluconeogenesis. *Journal of Biological Chemistry*, **2000**, 275, 14717-21 | 5.4 | 54 |

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|---|---|---|---|
| 12 | NF-kappa B inhibits glucocorticoid and cAMP-mediated expression of the phosphoenolpyruvate carboxykinase gene. *Journal of Biological Chemistry*, **2000**, 275, 31847-56 | 5.4 | 38 |
| 11 | Dominant negative forms of Akt (protein kinase B) and atypical protein kinase Clambda do not prevent insulin inhibition of phosphoenolpyruvate carboxykinase gene transcription. *Journal of Biological Chemistry*, **1999**, 274, 21305-12 | 5.4 | 84 |
| 10 | 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, 3198-204 | 5.4 | 47 |
| 9 | Analysis of the signaling pathway involved in the regulation of hexokinase II gene transcription by insulin. *Journal of Biological Chemistry*, **1996**, 271, 16690-4 | 5.4 | 100 |
| 8 | 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, 1890-7 | 5.4 | 120 |
| 7 | Phosphatidylinositol 3-kinase, but not p70/p85 ribosomal S6 protein kinase, is required for the regulation of phosphoenolpyruvate carboxykinase (PEPCK) gene expression by insulin. Dissociation of signaling pathways for insulin and phorbol ester regulation of PEPCK gene expression. *Journal of Biological Chemistry*, **1995**, 270, 15501-6 | 5.4 | 135 |
| 6 | The alpha-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 | 3.8 | 196 |
| 5 | 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, 581-8 | | 127 |
| 4 | 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, 715-22 | | 144 |
| 3 | Dissection of the protein kinase cascades involved in insulin and nerve growth factor action. *Biochemical Society Transactions*, **1992**, 20, 671-4 | 5.1 | 17 |
| 2 | Esterification and absorption of cholesterol: in vitro and in vivo observations in the rat. *Lipids and Lipid Metabolism*, **1989**, 1003, 213-6 | | 19 |
| 1 | Convergence of leptin and insulin signaling networks in obesity127-163 | | |