

# Daniel J Fazakerley

## 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.

62 papers	2,337 citations	26 h-index	48 g-index
69 ext. papers	2,982 ext. citations	6.7 avg, IF	4.74 L-index

#	Paper	IF	Citations
62	GLUT4 On the move.. <i>Biochemical Journal</i> , <b>2022</b> , 479, 445-462	3.8	1
61	Systems-level analysis of insulin action in mouse strains provides insight into tissue- and pathway-specific interactions that drive insulin resistance.. <i>Cell Metabolism</i> , <b>2022</b> ,	24.6	5
60	The role of mitochondrial reactive oxygen species in insulin resistance. <i>Free Radical Biology and Medicine</i> , <b>2021</b> , 179, 339-339	7.8	2
59	Akt phosphorylates insulin receptor substrate to limit PI3K-mediated PIP3 synthesis. <i>ELife</i> , <b>2021</b> , 10,	8.9	2
58	Signaling Heterogeneity is Defined by Pathway Architecture and Intercellular Variability in Protein Expression. <i>IScience</i> , <b>2021</b> , 24, 102118	6.1	8
57	Bilirubin deficiency renders mice susceptible to hepatic steatosis in the absence of insulin resistance. <i>Redox Biology</i> , <b>2021</b> , 47, 102152	11.3	7
56	Genetic screening reveals phospholipid metabolism as a key regulator of the biosynthesis of the redox-active lipid coenzyme Q. <i>Redox Biology</i> , <b>2021</b> , 46, 102127	11.3	3
55	Dynamic C Flux Analysis Captures the Reorganization of Adipocyte Glucose Metabolism in Response to Insulin. <i>IScience</i> , <b>2020</b> , 23, 100855	6.1	11
54	Lactate production is a prioritized feature of adipocyte metabolism. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 83-98	5.4	20
53	Phenotypic screen for oxygen consumption rate identifies an anti-cancer naphthoquinone that induces mitochondrial oxidative stress. <i>Redox Biology</i> , <b>2020</b> , 28, 101374	11.3	6
52	Mitochondrial oxidants, but not respiration, are sensitive to glucose in adipocytes. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 99-110	5.4	10
51	Insulin signaling requires glucose to promote lipid anabolism in adipocytes. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 13250-13266	5.4	11
50	Serine 474 phosphorylation is essential for maximal Akt2 kinase activity in adipocytes. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 16729-16739	5.4	21
49	Exposure to solar ultraviolet radiation limits diet-induced weight gain, increases liver triglycerides and prevents the early signs of cardiovascular disease in mice. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , <b>2019</b> , 29, 633-638	4.5	6
48	Muscle and adipose tissue insulin resistance: malady without mechanism?. <i>Journal of Lipid Research</i> , <b>2019</b> , 60, 1720-1732	6.3	36
47	Phosphoproteomics of Acute Cell Stressors Targeting Exercise Signaling Networks Reveal Drug Interactions Regulating Protein Secretion. <i>Cell Reports</i> , <b>2019</b> , 29, 1524-1538.e6	10.6	11
46	Insulin Tolerance Test under Anaesthesia to Measure Tissue-specific Insulin-stimulated Glucose Disposal. <i>Bio-protocol</i> , <b>2019</b> , 9, e3146	0.9	4

45	Lipid and glucose metabolism in hepatocyte cell lines and primary mouse hepatocytes: a comprehensive resource for in vitro studies of hepatic metabolism. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2019</b> , 316, E578-E589	6	32
44	Global redox proteome and phosphoproteome analysis reveals redox switch in Akt. <i>Nature Communications</i> , <b>2019</b> , 10, 5486	17.4	36
43	High dietary fat and sucrose results in an extensive and time-dependent deterioration in health of multiple physiological systems in mice. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 5731-5745	5.4	42
42	The transcriptional response to oxidative stress is part of, but not sufficient for, insulin resistance in adipocytes. <i>Scientific Reports</i> , <b>2018</b> , 8, 1774	4.9	9
41	Mitochondrial oxidative stress causes insulin resistance without disrupting oxidative phosphorylation. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 7315-7328	5.4	69
40	Glucose Transport: Methods for Interrogating GLUT4 Trafficking in Adipocytes. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1713, 193-215	1.4	5
39	Membrane Topology of Trafficking Regulator of GLUT4 1 (TRARG1). <i>Biochemistry</i> , <b>2018</b> , 57, 3606-3615	3.2	1
38	A gas trapping method for high-throughput metabolic experiments. <i>BioTechniques</i> , <b>2018</b> , 64, 27-29	2.5	5
37	Mitochondrial CoQ deficiency is a common driver of mitochondrial oxidants and insulin resistance. <i>ELife</i> , <b>2018</b> , 7,	8.9	61
36	Adipocyte lipolysis links obesity to breast cancer growth: adipocyte-derived fatty acids drive breast cancer cell proliferation and migration. <i>Cancer &amp; Metabolism</i> , <b>2017</b> , 5, 1	5.4	175
35	Bicarbonate alters cellular responses in respiration assays. <i>Biochemical and Biophysical Research Communications</i> , <b>2017</b> , 489, 399-403	3.4	7
34	The amino acid transporter, SLC1A3, is plasma membrane-localised in adipocytes and its activity is insensitive to insulin. <i>FEBS Letters</i> , <b>2017</b> , 591, 322-330	3.8	7
33	An improved Akt reporter reveals intra- and inter-cellular heterogeneity and oscillations in signal transduction. <i>Journal of Cell Science</i> , <b>2017</b> , 130, 2757-2766	5.3	12
32	Dynamic Metabolomics Reveals that Insulin Primes the Adipocyte for Glucose Metabolism. <i>Cell Reports</i> , <b>2017</b> , 21, 3536-3547	10.6	34
31	Metabolomic analysis of insulin resistance across different mouse strains and diets. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 19135-19145	5.4	25
30	mTORC2 and AMPK differentially regulate muscle triglyceride content via Perilipin 3. <i>Molecular Metabolism</i> , <b>2016</b> , 5, 646-655	8.8	37
29	Highlights from the 11th ISCB Student Council Symposium 2015. Dublin, Ireland. 10 July 2015. <i>BMC Bioinformatics</i> , <b>2016</b> , 17 Suppl 3, 95	3.6	1
28	Terminal Galactosylation and Sialylation Switching on Membrane Glycoproteins upon TNF-Alpha-Induced Insulin Resistance in Adipocytes. <i>Molecular and Cellular Proteomics</i> , <b>2016</b> , 15, 141-53	7.6	62

27	Unraveling Kinase Activation Dynamics Using Kinase-Substrate Relationships from Temporal Large-Scale Phosphoproteomics Studies. <i>PLoS ONE</i> , <b>2016</b> , 11, e0157763	3.7	9
26	mTORC1 Is a Major Regulatory Node in the FGF21 Signaling Network in Adipocytes. <i>Cell Reports</i> , <b>2016</b> , 17, 29-36	10.6	59
25	The RabGAP TBC1D1 plays a central role in exercise-regulated glucose metabolism in skeletal muscle. <i>Diabetes</i> , <b>2015</b> , 64, 1914-22	0.9	51
24	Insulin regulates Rab3-Noc2 complex dissociation to promote GLUT4 translocation in rat adipocytes. <i>Diabetologia</i> , <b>2015</b> , 58, 1877-86	10.3	9
23	Selective insulin resistance in adipocytes. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 11337-48	5.4	64
22	Global Phosphoproteomic Analysis of Human Skeletal Muscle Reveals a Network of Exercise-Regulated Kinases and AMPK Substrates. <i>Cell Metabolism</i> , <b>2015</b> , 22, 922-35	24.6	233
21	Proteomic Analysis of GLUT4 Storage Vesicles Reveals Tumor Suppressor Candidate 5 (TUSC5) as a Novel Regulator of Insulin Action in Adipocytes. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 23528-42	5.4	35
20	Kinome Screen Identifies PFKFB3 and Glucose Metabolism as Important Regulators of the Insulin/Insulin-like Growth Factor (IGF)-1 Signaling Pathway. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 25834-46	5.4	37
19	Cross-species gene expression analysis identifies a novel set of genes implicated in human insulin sensitivity. <i>Npj Systems Biology and Applications</i> , <b>2015</b> , 1, 15010	5	6
18	Circulating AFABP promotes insulin secretion. <i>Obesity</i> , <b>2015</b> , 23, 1525	8	
17	Direction pathway analysis of large-scale proteomics data reveals novel features of the insulin action pathway. <i>Bioinformatics</i> , <b>2014</b> , 30, 808-14	7.2	20
16	Acute mTOR inhibition induces insulin resistance and alters substrate utilization in vivo. <i>Molecular Metabolism</i> , <b>2014</b> , 3, 630-41	8.8	57
15	Systemic VEGF-A neutralization ameliorates diet-induced metabolic dysfunction. <i>Diabetes</i> , <b>2014</b> , 63, 2656-67	0.9	24
14	The role of the Niemann-Pick disease, type C1 protein in adipocyte insulin action. <i>PLoS ONE</i> , <b>2014</b> , 9, e95598	3.7	14
13	Opening of the mitochondrial permeability transition pore links mitochondrial dysfunction to insulin resistance in skeletal muscle. <i>Molecular Metabolism</i> , <b>2014</b> , 3, 124-34	8.8	74
12	Identification of fatty acid binding protein 4 as an adipokine that regulates insulin secretion during obesity. <i>Molecular Metabolism</i> , <b>2014</b> , 3, 465-73	8.8	71
11	Dynamic adipocyte phosphoproteome reveals that Akt directly regulates mTORC2. <i>Cell Metabolism</i> , <b>2013</b> , 17, 1009-1020	24.6	269
10	Novel systems for dynamically assessing insulin action in live cells reveals heterogeneity in the insulin response. <i>Traffic</i> , <b>2013</b> , 14, 259-73	5.7	23

9	Re-fraction: a machine learning approach for deterministic identification of protein homologues and splice variants in large-scale MS-based proteomics. <i>Journal of Proteome Research</i> , <b>2012</b> , 11, 3035-45	5.6	6
8	Amplification and demultiplexing in insulin-regulated Akt protein kinase pathway in adipocytes. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 6128-38	5.4	53
7	Mapping insulin/GLUT4 circuitry. <i>Traffic</i> , <b>2011</b> , 12, 672-81	5.7	117
6	GLUT4 exocytosis. <i>Journal of Cell Science</i> , <b>2011</b> , 124, 4147-59	5.3	192
5	Kinetic evidence for unique regulation of GLUT4 trafficking by insulin and AMP-activated protein kinase activators in L6 myotubes. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 1653-60	5.4	55
4	Muscling in on GLUT4 kinetics. <i>Communicative and Integrative Biology</i> , <b>2010</b> , 3, 260-2	1.7	9
3	A common trafficking route for GLUT4 in cardiomyocytes in response to insulin, contraction and energy-status signalling. <i>Journal of Cell Science</i> , <b>2009</b> , 122, 1054-1054	5.3	1
2	Oligomeric resistin impairs insulin and AICAR-stimulated glucose uptake in mouse skeletal muscle by inhibiting GLUT4 translocation. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2009</b> , 297, E57-66	6	26
1	A common trafficking route for GLUT4 in cardiomyocytes in response to insulin, contraction and energy-status signalling. <i>Journal of Cell Science</i> , <b>2009</b> , 122, 727-34	5.3	37