Daniel J Fazakerley

List of Publications by Citations

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	Dynamic adipocyte phosphoproteome reveals that Akt directly regulates mTORC2. *Cell Metabolism*, **2013**, 17, 1009-1020	24.6	269
61	Global Phosphoproteomic Analysis of Human Skeletal Muscle Reveals a Network of Exercise-Regulated Kinases and AMPK Substrates. *Cell Metabolism*, **2015**, 22, 922-35	24.6	233
60	GLUT4 exocytosis. *Journal of Cell Science*, **2011**, 124, 4147-59	5.3	192
59	Adipocyte lipolysis links obesity to breast cancer growth: adipocyte-derived fatty acids drive breast cancer cell proliferation and migration. *Cancer & Metabolism*, **2017**, 5, 1	5.4	175
58	Mapping insulin/GLUT4 circuitry. *Traffic*, **2011**, 12, 672-81	5.7	117
57	Opening of the mitochondrial permeability transition pore links mitochondrial dysfunction to insulin resistance in skeletal muscle. *Molecular Metabolism*, **2014**, 3, 124-34	8.8	74
56	Identification of fatty acid binding protein 4 as an adipokine that regulates insulin secretion during obesity. *Molecular Metabolism*, **2014**, 3, 465-73	8.8	71
55	Mitochondrial oxidative stress causes insulin resistance without disrupting oxidative phosphorylation. *Journal of Biological Chemistry*, **2018**, 293, 7315-7328	5.4	69
54	Selective insulin resistance in adipocytes. *Journal of Biological Chemistry*, **2015**, 290, 11337-48	5.4	64
53	Terminal Galactosylation and Sialylation Switching on Membrane Glycoproteins upon TNF-Alpha-Induced Insulin Resistance in Adipocytes. *Molecular and Cellular Proteomics*, **2016**, 15, 141-53	7.6	62
52	Mitochondrial CoQ deficiency is a common driver of mitochondrial oxidants and insulin resistance. *ELife*, **2018**, 7,	8.9	61
51	mTORC1 Is a Major Regulatory Node in the FGF21 Signaling Network in Adipocytes. *Cell Reports*, **2016**, 17, 29-36	10.6	59
50	Acute mTOR inhibition induces insulin resistance and alters substrate utilization in vivo. *Molecular Metabolism*, **2014**, 3, 630-41	8.8	57
49	Kinetic evidence for unique regulation of GLUT4 trafficking by insulin and AMP-activated protein kinase activators in L6 myotubes. *Journal of Biological Chemistry*, **2010**, 285, 1653-60	5.4	55
48	Amplification and demultiplexing in insulin-regulated Akt protein kinase pathway in adipocytes. *Journal of Biological Chemistry*, **2012**, 287, 6128-38	5.4	53
47	The RabGAP TBC1D1 plays a central role in exercise-regulated glucose metabolism in skeletal muscle. *Diabetes*, **2015**, 64, 1914-22	0.9	51
46	High dietary fat and sucrose results in an extensive and time-dependent deterioration in health of multiple physiological systems in mice. *Journal of Biological Chemistry*, **2018**, 293, 5731-5745	5.4	42

45	Kinome Screen Identifies PFKFB3 and Glucose Metabolism as Important Regulators of the Insulin/Insulin-like Growth Factor (IGF)-1 Signaling Pathway. *Journal of Biological Chemistry*, **2015**, 290, 25834-46	5.4	37
44	mTORC2 and AMPK differentially regulate muscle triglyceride content via Perilipin 3. *Molecular Metabolism*, **2016**, 5, 646-655	8.8	37
43	A common trafficking route for GLUT4 in cardiomyocytes in response to insulin, contraction and energy-status signalling. *Journal of Cell Science*, **2009**, 122, 727-34	5.3	37
42	Muscle and adipose tissue insulin resistance: malady without mechanism?. *Journal of Lipid Research*, **2019**, 60, 1720-1732	6.3	36
41	Global redox proteome and phosphoproteome analysis reveals redox switch in Akt. *Nature Communications*, **2019**, 10, 5486	17.4	36
40	Proteomic Analysis of GLUT4 Storage Vesicles Reveals Tumor Suppressor Candidate 5 (TUSC5) as a Novel Regulator of Insulin Action in Adipocytes. *Journal of Biological Chemistry*, **2015**, 290, 23528-42	5.4	35
39	Dynamic Metabolomics Reveals that Insulin Primes the Adipocyte for Glucose Metabolism. *Cell Reports*, **2017**, 21, 3536-3547	10.6	34
38	Lipid and glucose metabolism in hepatocyte cell lines and primary mouse hepatocytes: a comprehensive resource for in vitro studies of hepatic metabolism. *American Journal of Physiology - Endocrinology and Metabolism*, **2019**, 316, E578-E589	6	32
37	Oligomeric resistin impairs insulin and AICAR-stimulated glucose uptake in mouse skeletal muscle by inhibiting GLUT4 translocation. *American Journal of Physiology - Endocrinology and Metabolism*, **2009**, 297, E57-66	6	26
36	Metabolomic analysis of insulin resistance across different mouse strains and diets. *Journal of Biological Chemistry*, **2017**, 292, 19135-19145	5.4	25
35	Systemic VEGF-A neutralization ameliorates diet-induced metabolic dysfunction. *Diabetes*, **2014**, 63, 2656-67	0.9	24
34	Novel systems for dynamically assessing insulin action in live cells reveals heterogeneity in the insulin response. *Traffic*, **2013**, 14, 259-73	5.7	23
33	Serine 474 phosphorylation is essential for maximal Akt2 kinase activity in adipocytes. *Journal of Biological Chemistry*, **2019**, 294, 16729-16739	5.4	21
32	Direction pathway analysis of large-scale proteomics data reveals novel features of the insulin action pathway. *Bioinformatics*, **2014**, 30, 808-14	7.2	20
31	Lactate production is a prioritized feature of adipocyte metabolism. *Journal of Biological Chemistry*, **2020**, 295, 83-98	5.4	20
30	The role of the Niemann-Pick disease, type C1 protein in adipocyte insulin action. *PLoS ONE*, **2014**, 9, e95598	3.7	14
29	An improved Akt reporter reveals intra- and inter-cellular heterogeneity and oscillations in signal transduction. *Journal of Cell Science*, **2017**, 130, 2757-2766	5.3	12
28	Dynamic C Flux Analysis Captures the Reorganization of Adipocyte Glucose Metabolism in Response to Insulin. *IScience*, **2020**, 23, 100855	6.1	11

27	Phosphoproteomics of Acute Cell Stressors Targeting Exercise Signaling Networks Reveal Drug Interactions Regulating Protein Secretion. *Cell Reports*, **2019**, 29, 1524-1538.e6	10.6	11
26	Insulin signaling requires glucose to promote lipid anabolism in adipocytes. *Journal of Biological Chemistry*, **2020**, 295, 13250-13266	5.4	11
25	Mitochondrial oxidants, but not respiration, are sensitive to glucose in adipocytes. *Journal of Biological Chemistry*, **2020**, 295, 99-110	5.4	10
24	Insulin regulates Rab3-Noc2 complex dissociation to promote GLUT4 translocation in rat adipocytes. *Diabetologia*, **2015**, 58, 1877-86	10.3	9
23	The transcriptional response to oxidative stress is part of, but not sufficient for, insulin resistance in adipocytes. *Scientific Reports*, **2018**, 8, 1774	4.9	9
22	Muscling in on GLUT4 kinetics. *Communicative and Integrative Biology*, **2010**, 3, 260-2	1.7	9
21	Unraveling Kinase Activation Dynamics Using Kinase-Substrate Relationships from Temporal Large-Scale Phosphoproteomics Studies. *PLoS ONE*, **2016**, 11, e0157763	3.7	9
20	Signaling Heterogeneity is Defined by Pathway Architecture and Intercellular Variability in Protein Expression. *IScience*, **2021**, 24, 102118	6.1	8
19	Bicarbonate alters cellular responses in respiration assays. *Biochemical and Biophysical Research Communications*, **2017**, 489, 399-403	3.4	7
18	The amino acid transporter, SLC1A3, is plasma membrane-localised in adipocytes and its activity is insensitive to insulin. *FEBS Letters*, **2017**, 591, 322-330	3.8	7
17	Bilirubin deficiency renders mice susceptible to hepatic steatosis in the absence of insulin resistance. *Redox Biology*, **2021**, 47, 102152	11.3	7
16	Exposure to solar ultraviolet radiation limits diet-induced weight gain, increases liver triglycerides and prevents the early signs of cardiovascular disease in mice. *Nutrition, Metabolism and Cardiovascular Diseases*, **2019**, 29, 633-638	4.5	6
15	Cross-species gene expression analysis identifies a novel set of genes implicated in human insulin sensitivity. *Npj Systems Biology and Applications*, **2015**, 1, 15010	5	6
14	Re-fraction: a machine learning approach for deterministic identification of protein homologues and splice variants in large-scale MS-based proteomics. *Journal of Proteome Research*, **2012**, 11, 3035-45	5.6	6
13	Phenotypic screen for oxygen consumption rate identifies an anti-cancer naphthoquinone that induces mitochondrial oxidative stress. *Redox Biology*, **2020**, 28, 101374	11.3	6
12	Systems-level analysis of insulin action in mouse strains provides insight into tissue- and pathway-specific interactions that drive insulin resistance.. *Cell Metabolism*, **2022**,	24.6	5
11	Glucose Transport: Methods for Interrogating GLUT4 Trafficking in Adipocytes. *Methods in Molecular Biology*, **2018**, 1713, 193-215	1.4	5
10	A gas trapping method for high-throughput metabolic experiments. *BioTechniques*, **2018**, 64, 27-29	2.5	5

List of Publications

9	Insulin Tolerance Test under Anaesthesia to Measure Tissue-specific Insulin-stimulated Glucose Disposal. *Bio-protocol*, **2019**, 9, e3146	0.9	4
8	Genetic screening reveals phospholipid metabolism as a key regulator of the biosynthesis of the redox-active lipid coenzyme Q. *Redox Biology*, **2021**, 46, 102127	11.3	3
7	The role of mitochondrial reactive oxygen species in insulin resistance. *Free Radical Biology and Medicine*, **2021**, 179, 339-339	7.8	2
6	Akt phosphorylates insulin receptor substrate to limit PI3K-mediated PIP3 synthesis. *ELife*, **2021**, 10,	8.9	2
5	Highlights from the 11th ISCB Student Council Symposium 2015. Dublin, Ireland. 10 July 2015. *BMC Bioinformatics*, **2016**, 17 Suppl 3, 95	3.6	1
4	A common trafficking route for GLUT4 in cardiomyocytes in response to insulin, contraction and energy-status signalling. *Journal of Cell Science*, **2009**, 122, 1054-1054	5.3	1
3	GLUT4 On the move.. *Biochemical Journal*, **2022**, 479, 445-462	3.8	1
2	Membrane Topology of Trafficking Regulator of GLUT4 1 (TRARG1). *Biochemistry*, **2018**, 57, 3606-3615	3.2	1
1	Circulating AFABP promotes insulin secretion. *Obesity*, **2015**, 23, 1525	8	