Daniel J Fazakerley

List of Publications by Year
in descending order

64	3,474	186265 28	155660 55
papers	citations	h-index	g-index
69	69	69	5689
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The role of mitochondrial reactive oxygen species in insulin resistance. Free Radical Biology and Medicine, 2022, 179, 339-362.	2.9	19
2	Systems-level analysis of insulin action in mouse strains provides insight into tissue- and pathway-specific interactions that drive insulin resistance. Cell Metabolism, 2022, 34, 227-239.e6.	16.2	29
3	GLUT4 On the move. Biochemical Journal, 2022, 479, 445-462.	3.7	16
4	Integrating adipocyte insulin signaling and metabolism in the multi-omics era. Trends in Biochemical Sciences, 2022, 47, 531-546.	7.5	21
5	Trafficking regulator of GLUT4-1 (TRARG1) is a GSK3 substrate. Biochemical Journal, 2022, 479, 1237-1256.	3.7	11
6	Signaling Heterogeneity is Defined by Pathway Architecture and Intercellular Variability in Protein Expression. IScience, 2021, 24, 102118.	4.1	19
7	Akt phosphorylates insulin receptor substrate to limit PI3K-mediated PIP3 synthesis. ELife, 2021, 10, .	6.0	21
8	Bilirubin deficiency renders mice susceptible to hepatic steatosis in the absence of insulin resistance. Redox Biology, 2021, 47, 102152.	9.0	17
9	Genetic screening reveals phospholipid metabolism as a key regulator of the biosynthesis of the redox-active lipid coenzyme Q. Redox Biology, 2021, 46, 102127.	9.0	8
10	Lactate production is a prioritized feature of adipocyte metabolism. Journal of Biological Chemistry, 2020, 295, 83-98.	3.4	44
11	Phenotypic screen for oxygen consumption rate identifies an anti-cancer naphthoquinone that induces mitochondrial oxidative stress. Redox Biology, 2020, 28, 101374.	9.0	9
12	Mitochondrial oxidants, but not respiration, are sensitive to glucose in adipocytes. Journal of Biological Chemistry, 2020, 295, 99-110.	3.4	20
13	Insulin signaling requires glucose to promote lipid anabolism in adipocytes. Journal of Biological Chemistry, 2020, 295, 13250-13266.	3.4	31
14	Dynamic 13C Flux Analysis Captures the Reorganization of Adipocyte Glucose Metabolism in Response to Insulin. IScience, 2020, 23, 100855.	4.1	24
15	Muscle and adipose tissue insulin resistance: malady without mechanism?. Journal of Lipid Research, 2019, 60, 1720-1732.	4.2	91
16	Phosphoproteomics of Acute Cell Stressors Targeting Exercise Signaling Networks Reveal Drug Interactions Regulating Protein Secretion. Cell Reports, 2019, 29, 1524-1538.e6.	6.4	30
17	Serine 474 phosphorylation is essential for maximal Akt2 kinase activity in adipocytes. Journal of Biological Chemistry, 2019, 294, 16729-16739.	3.4	32
18	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.	2.6	17

#	Article	IF	Citations
19	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.	3.5	71
20	Global redox proteome and phosphoproteome analysis reveals redox switch in Akt. Nature Communications, 2019, 10, 5486.	12.8	89
21	Insulin Tolerance Test under Anaesthesia to Measure Tissue-specific Insulin-stimulated Glucose Disposal. Bio-protocol, 2019, 9, e3146.	0.4	7
22	High dietary fat and sucrose result in an extensive and time-dependent deterioration in health of multiple physiological systems in mice. Journal of Biological Chemistry, 2018, 293, 5731-5745.	3.4	65
23	The transcriptional response to oxidative stress is part of, but not sufficient for, insulin resistance in adipocytes. Scientific Reports, 2018, 8, 1774.	3.3	9
24	Mitochondrial oxidative stress causes insulin resistance without disrupting oxidative phosphorylation. Journal of Biological Chemistry, 2018, 293, 7315-7328.	3.4	110
25	Glucose Transport: Methods for Interrogating GLUT4 Trafficking in Adipocytes. Methods in Molecular Biology, 2018, 1713, 193-215.	0.9	6
26	Membrane Topology of Trafficking Regulator of GLUT4 1 (TRARG1). Biochemistry, 2018, 57, 3606-3615.	2.5	4
27	A gas trapping method for high-throughput metabolic experiments. BioTechniques, 2018, 64, 27-29.	1.8	5
28	Mitochondrial CoQ deficiency is a common driver of mitochondrial oxidants and insulin resistance. ELife, 2018, 7, .	6.0	91
29	Adipocyte lipolysis links obesity to breast cancer growth: adipocyte-derived fatty acids drive breast cancer cell proliferation and migration. Cancer & Metabolism, 2017, 5, 1.	5.0	284
30	Bicarbonate alters cellular responses in respiration assays. Biochemical and Biophysical Research Communications, 2017, 489, 399-403.	2.1	11
31	The amino acid transporter, <scp>SLC</scp>1A3, is plasma membraneâ€localised in adipocytes and its activity is insensitive to insulin. FEBS Letters, 2017, 591, 322-330.	2.8	16
32	Improved Akt reporter reveals intra- and inter-cellular heterogeneity and oscillations in signal transduction. Journal of Cell Science, 2017, 130, 2757-2766.	2.0	15
33	Dynamic Metabolomics Reveals that Insulin Primes the Adipocyte for Glucose Metabolism. Cell Reports, 2017, 21, 3536-3547.	6.4	55
34	Metabolomic analysis of insulin resistance across different mouse strains and diets. Journal of Biological Chemistry, 2017, 292, 19135-19145.	3.4	36
35	mTORC1 Is a Major Regulatory Node in the FGF21 Signaling Network in Adipocytes. Cell Reports, 2016, 17, 29-36.	6.4	88
36	mTORC2 and AMPK differentially regulate muscle triglyceride content via Perilipin 3. Molecular Metabolism, 2016, 5, 646-655.	6.5	44

#	Article	IF	Citations
37	Highlights from the 11th ISCB Student Council Symposium 2015. BMC Bioinformatics, 2016, 17, 95.	2.6	4
38	Terminal Galactosylation and Sialylation Switching on Membrane Glycoproteins upon TNF-Alpha-Induced Insulin Resistance in Adipocytes. Molecular and Cellular Proteomics, 2016, 15, 141-153.	3.8	80
39	Unraveling Kinase Activation Dynamics Using Kinase-Substrate Relationships from Temporal Large-Scale Phosphoproteomics Studies. PLoS ONE, 2016, 11, e0157763.	2.5	14
40	Cross-species gene expression analysis identifies a novel set of genes implicated in human insulin sensitivity. Npj Systems Biology and Applications, 2015, 1, 15010.	3.0	11
41	Circulating <scp>AFABP</scp> promotes insulin secretion. Obesity, 2015, 23, 1525-1525.	3.0	0
42	The RabGAP TBC1D1 Plays a Central Role in Exercise-Regulated Glucose Metabolism in Skeletal Muscle. Diabetes, 2015, 64, 1914-1922.	0.6	62
43	Insulin regulates Rab3â€"Noc2 complex dissociation to promote GLUT4 translocation in rat adipocytes. Diabetologia, 2015, 58, 1877-1886.	6.3	15
44	Selective Insulin Resistance in Adipocytes. Journal of Biological Chemistry, 2015, 290, 11337-11348.	3.4	85
45	Global Phosphoproteomic Analysis of Human Skeletal Muscle Reveals a Network of Exercise-Regulated Kinases and AMPK Substrates. Cell Metabolism, 2015, 22, 922-935.	16.2	333
46	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, 23528-23542.	3.4	50
47	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, 25834-25846.	3.4	50
48	The Role of the Niemann-Pick Disease, Type C1 Protein in Adipocyte Insulin Action. PLoS ONE, 2014, 9, e95598.	2.5	21
49	Opening of the mitochondrial permeability transition pore links mitochondrial dysfunction to insulin resistance in skeletal muscle. Molecular Metabolism, 2014, 3, 124-134.	6.5	84
50	Identification of fatty acid binding protein 4 as an adipokine that regulates insulin secretion during obesity. Molecular Metabolism, 2014, 3, 465-473.	6.5	96
51	Direction pathway analysis of large-scale proteomics data reveals novel features of the insulin action pathway. Bioinformatics, 2014, 30, 808-814.	4.1	29
52	Acute mTOR inhibition induces insulin resistance and alters substrate utilization inÂvivo. Molecular Metabolism, 2014, 3, 630-641.	6.5	68
53	Systemic VEGF-A Neutralization Ameliorates Diet-Induced Metabolic Dysfunction. Diabetes, 2014, 63, 2656-2667.	0.6	29
54	Dynamic Adipocyte Phosphoproteome Reveals that Akt Directly Regulates mTORC2. Cell Metabolism, 2013, 17, 1009-1020.	16.2	352

#	Article	IF	Citations
55	Novel Systems for Dynamically Assessing Insulin Action in Live Cells Reveals Heterogeneity in the Insulin Response. Traffic, 2013, 14, 259-273.	2.7	27
56	Amplification and Demultiplexing in Insulin-regulated Akt Protein Kinase Pathway in Adipocytes. Journal of Biological Chemistry, 2012, 287, 6128-6138.	3.4	63
57	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, 3035-3045.	3.7	6
58	GLUT4 exocytosis. Journal of Cell Science, 2011, 124, 4147-4159.	2.0	233
59	Mapping Insulin/GLUT4 Circuitry. Traffic, 2011, 12, 672-681.	2.7	128
60	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, 1653-1660.	3.4	67
61	Muscling in on GLUT4 kinetics. Communicative and Integrative Biology, 2010, 3, 260-262.	1.4	11
62	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.	2.0	2
63	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-E66.	3.5	34
64	A common trafficking route for GLUT4 in cardiomyocytes in response to insulin, contraction and energy-status signalling. Journal of Cell Science, 2009, 122, 727-734.	2.0	44