

Daniel J Fazakerley

List of Publications by Year in descending order

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64
papers

3,474
citations

186254

28
h-index

155644

55
g-index

69
all docs

69
docs citations

69
times ranked

5689
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic Adipocyte Phosphoproteome Reveals that Akt Directly Regulates mTORC2. <i>Cell Metabolism</i> , 2013, 17, 1009-1020.	16.2	352
2	Global Phosphoproteomic Analysis of Human Skeletal Muscle Reveals a Network of Exercise-Regulated Kinases and AMPK Substrates. <i>Cell Metabolism</i> , 2015, 22, 922-935.	16.2	333
3	Adipocyte lipolysis links obesity to breast cancer growth: adipocyte-derived fatty acids drive breast cancer cell proliferation and migration. <i>Cancer & Metabolism</i> , 2017, 5, 1.	5.0	284
4	GLUT4 exocytosis. <i>Journal of Cell Science</i> , 2011, 124, 4147-4159.	2.0	233
5	Mapping Insulin/GLUT4 Circuitry. <i>Traffic</i> , 2011, 12, 672-681.	2.7	128
6	Mitochondrial oxidative stress causes insulin resistance without disrupting oxidative phosphorylation. <i>Journal of Biological Chemistry</i> , 2018, 293, 7315-7328.	3.4	110
7	Identification of fatty acid binding protein 4 as an adipokine that regulates insulin secretion during obesity. <i>Molecular Metabolism</i> , 2014, 3, 465-473.	6.5	96
8	Mitochondrial CoQ deficiency is a common driver of mitochondrial oxidants and insulin resistance. <i>ELife</i> , 2018, 7, .	6.0	91
9	Muscle and adipose tissue insulin resistance: malady without mechanism?. <i>Journal of Lipid Research</i> , 2019, 60, 1720-1732.	4.2	91
10	Global redox proteome and phosphoproteome analysis reveals redox switch in Akt. <i>Nature Communications</i> , 2019, 10, 5486.	12.8	89
11	mTORC1 Is a Major Regulatory Node in the FGF21 Signaling Network in Adipocytes. <i>Cell Reports</i> , 2016, 17, 29-36.	6.4	88
12	Selective Insulin Resistance in Adipocytes. <i>Journal of Biological Chemistry</i> , 2015, 290, 11337-11348.	3.4	85
13	Opening of the mitochondrial permeability transition pore links mitochondrial dysfunction to insulin resistance in skeletal muscle. <i>Molecular Metabolism</i> , 2014, 3, 124-134.	6.5	84
14	Terminal Galactosylation and Sialylation Switching on Membrane Glycoproteins upon TNF-Alpha-Induced Insulin Resistance in Adipocytes. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 141-153.	3.8	80
15	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> , 2019, 316, E578-E589.	3.5	71
16	Acute mTOR inhibition induces insulin resistance and alters substrate utilization in vivo. <i>Molecular Metabolism</i> , 2014, 3, 630-641.	6.5	68
17	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> , 2010, 285, 1653-1660.	3.4	67
18	High dietary fat and sucrose result in an extensive and time-dependent deterioration in health of multiple physiological systems in mice. <i>Journal of Biological Chemistry</i> , 2018, 293, 5731-5745.	3.4	65

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19	Amplification and Demultiplexing in Insulin-regulated Akt Protein Kinase Pathway in Adipocytes. <i>Journal of Biological Chemistry</i> , 2012, 287, 6128-6138.	3.4	63
20	The RabGAP TBC1D1 Plays a Central Role in Exercise-Regulated Glucose Metabolism in Skeletal Muscle. <i>Diabetes</i> , 2015, 64, 1914-1922.	0.6	62
21	Dynamic Metabolomics Reveals that Insulin Primes the Adipocyte for Glucose Metabolism. <i>Cell Reports</i> , 2017, 21, 3536-3547.	6.4	55
22	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> , 2015, 290, 23528-23542.	3.4	50
23	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> , 2015, 290, 25834-25846.	3.4	50
24	A common trafficking route for GLUT4 in cardiomyocytes in response to insulin, contraction and energy-status signalling. <i>Journal of Cell Science</i> , 2009, 122, 727-734.	2.0	44
25	mTORC2 and AMPK differentially regulate muscle triglyceride content via Perilipin 3. <i>Molecular Metabolism</i> , 2016, 5, 646-655.	6.5	44
26	Lactate production is a prioritized feature of adipocyte metabolism. <i>Journal of Biological Chemistry</i> , 2020, 295, 83-98.	3.4	44
27	Metabolomic analysis of insulin resistance across different mouse strains and diets. <i>Journal of Biological Chemistry</i> , 2017, 292, 19135-19145.	3.4	36
28	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> , 2009, 297, E57-E66.	3.5	34
29	Serine 474 phosphorylation is essential for maximal Akt2 kinase activity in adipocytes. <i>Journal of Biological Chemistry</i> , 2019, 294, 16729-16739.	3.4	32
30	Insulin signaling requires glucose to promote lipid anabolism in adipocytes. <i>Journal of Biological Chemistry</i> , 2020, 295, 13250-13266.	3.4	31
31	Phosphoproteomics of Acute Cell Stressors Targeting Exercise Signaling Networks Reveal Drug Interactions Regulating Protein Secretion. <i>Cell Reports</i> , 2019, 29, 1524-1538.e6.	6.4	30
32	Direction pathway analysis of large-scale proteomics data reveals novel features of the insulin action pathway. <i>Bioinformatics</i> , 2014, 30, 808-814.	4.1	29
33	Systemic VEGF-A Neutralization Ameliorates Diet-Induced Metabolic Dysfunction. <i>Diabetes</i> , 2014, 63, 2656-2667.	0.6	29
34	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> , 2022, 34, 227-239.e6.	16.2	29
35	Novel Systems for Dynamically Assessing Insulin Action in Live Cells Reveals Heterogeneity in the Insulin Response. <i>Traffic</i> , 2013, 14, 259-273.	2.7	27
36	Dynamic ¹³ C Flux Analysis Captures the Reorganization of Adipocyte Glucose Metabolism in Response to Insulin. <i>IScience</i> , 2020, 23, 100855.	4.1	24

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37	The Role of the Niemann-Pick Disease, Type C1 Protein in Adipocyte Insulin Action. PLoS ONE, 2014, 9, e95598.	2.5	21
38	Akt phosphorylates insulin receptor substrate to limit PI3K-mediated PIP3 synthesis. ELife, 2021, 10, .	6.0	21
39	Integrating adipocyte insulin signaling and metabolism in the multi-omics era. Trends in Biochemical Sciences, 2022, 47, 531-546.	7.5	21
40	Mitochondrial oxidants, but not respiration, are sensitive to glucose in adipocytes. Journal of Biological Chemistry, 2020, 295, 99-110.	3.4	20
41	Signaling Heterogeneity is Defined by Pathway Architecture and Intercellular Variability in Protein Expression. IScience, 2021, 24, 102118.	4.1	19
42	The role of mitochondrial reactive oxygen species in insulin resistance. Free Radical Biology and Medicine, 2022, 179, 339-362.	2.9	19
43	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
44	Bilirubin deficiency renders mice susceptible to hepatic steatosis in the absence of insulin resistance. Redox Biology, 2021, 47, 102152.	9.0	17
45	The amino acid transporter, <scp>SLC</scp>1A3, is plasma membrane-localised in adipocytes and its activity is insensitive to insulin. FEBS Letters, 2017, 591, 322-330.	2.8	16
46	GLUT4 On the move. Biochemical Journal, 2022, 479, 445-462.	3.7	16
47	Insulin regulates Rab3-Noc2 complex dissociation to promote GLUT4 translocation in rat adipocytes. Diabetologia, 2015, 58, 1877-1886.	6.3	15
48	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
49	Unraveling Kinase Activation Dynamics Using Kinase-Substrate Relationships from Temporal Large-Scale Phosphoproteomics Studies. PLoS ONE, 2016, 11, e0157763.	2.5	14
50	Muscling in on GLUT4 kinetics. Communicative and Integrative Biology, 2010, 3, 260-262.	1.4	11
51	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
52	Bicarbonate alters cellular responses in respiration assays. Biochemical and Biophysical Research Communications, 2017, 489, 399-403.	2.1	11
53	Trafficking regulator of GLUT4-1 (TRARG1) is a GSK3 substrate. Biochemical Journal, 2022, 479, 1237-1256.	3.7	11
54	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

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55	Phenotypic screen for oxygen consumption rate identifies an anti-cancer naphthoquinone that induces mitochondrial oxidative stress. <i>Redox Biology</i> , 2020, 28, 101374.	9.0	9
56	Genetic screening reveals phospholipid metabolism as a key regulator of the biosynthesis of the redox-active lipid coenzyme Q. <i>Redox Biology</i> , 2021, 46, 102127.	9.0	8
57	Insulin Tolerance Test under Anaesthesia to Measure Tissue-specific Insulin-stimulated Glucose Disposal. <i>Bio-protocol</i> , 2019, 9, e3146.	0.4	7
58	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> , 2012, 11, 3035-3045.	3.7	6
59	Glucose Transport: Methods for Interrogating GLUT4 Trafficking in Adipocytes. <i>Methods in Molecular Biology</i> , 2018, 1713, 193-215.	0.9	6
60	A gas trapping method for high-throughput metabolic experiments. <i>BioTechniques</i> , 2018, 64, 27-29.	1.8	5
61	Highlights from the 11th ISCB Student Council Symposium 2015. <i>BMC Bioinformatics</i> , 2016, 17, 95.	2.6	4
62	Membrane Topology of Trafficking Regulator of GLUT4 1 (TRARG1). <i>Biochemistry</i> , 2018, 57, 3606-3615.	2.5	4
63	A common trafficking route for GLUT4 in cardiomyocytes in response to insulin, contraction and energy-status signalling. <i>Journal of Cell Science</i> , 2009, 122, 1054-1054.	2.0	2
64	Circulating <scp>AFABP</scp> promotes insulin secretion. <i>Obesity</i> , 2015, 23, 1525-1525.	3.0	0