

James G Burchfield

List of Publications by Citations

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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.

42
papers

1,343
citations

21
h-index

36
g-index

49
ext. papers

1,659
ext. citations

7.1
avg, IF

3.84
L-index

#	Paper	IF	Citations
42	Global Phosphoproteomic Analysis of Human Skeletal Muscle Reveals a Network of Exercise-Regulated Kinases and AMPK Substrates. <i>Cell Metabolism</i> , 2015 , 22, 922-35	24.6	233
41	Inhibition of PKCepsilon improves glucose-stimulated insulin secretion and reduces insulin clearance. <i>Cell Metabolism</i> , 2007 , 6, 320-8	24.6	77
40	Mitochondrial oxidative stress causes insulin resistance without disrupting oxidative phosphorylation. <i>Journal of Biological Chemistry</i> , 2018 , 293, 7315-7328	5.4	69
39	Akt mediates insulin-stimulated phosphorylation of Ndr2: evidence for cross-talk with protein kinase C theta. <i>Journal of Biological Chemistry</i> , 2004 , 279, 18623-32	5.4	67
38	Identification of a distal GLUT4 trafficking event controlled by actin polymerization. <i>Molecular Biology of the Cell</i> , 2009 , 20, 3918-29	3.5	62
37	Variations in the requirement for v-SNAREs in GLUT4 trafficking in adipocytes. <i>Journal of Cell Science</i> , 2009 , 122, 3472-80	5.3	61
36	Mitochondrial CoQ deficiency is a common driver of mitochondrial oxidants and insulin resistance. <i>ELife</i> , 2018 , 7,	8.9	61
35	Exocytotic vesicle behaviour assessed by total internal reflection fluorescence microscopy. <i>Traffic</i> , 2010 , 11, 429-39	5.7	51
34	The Rab GTPase-activating protein TBC1D4/AS160 contains an atypical phosphotyrosine-binding domain that interacts with plasma membrane phospholipids to facilitate GLUT4 trafficking in adipocytes. <i>Molecular and Cellular Biology</i> , 2012 , 32, 4946-59	4.8	51
33	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> , 2018 , 293, 5731-5745	5.4	42
32	Cluster analysis of insulin action in adipocytes reveals a key role for Akt at the plasma membrane. <i>Journal of Biological Chemistry</i> , 2010 , 285, 2245-57	5.4	41
31	Diverse roles for protein kinase C delta and protein kinase C epsilon in the generation of high-fat-diet-induced glucose intolerance in mice: regulation of lipogenesis by protein kinase C delta. <i>Diabetologia</i> , 2009 , 52, 2616-20	10.3	41
30	Deletion of PKCepsilon selectively enhances the amplifying pathways of glucose-stimulated insulin secretion via increased lipolysis in mouse beta-cells. <i>Diabetes</i> , 2009 , 58, 1826-34	0.9	38
29	Global redox proteome and phosphoproteome analysis reveals redox switch in Akt. <i>Nature Communications</i> , 2019 , 10, 5486	17.4	36
28	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, 23528-42	5.4	35
27	Multiplexed Temporal Quantification of the Exercise-regulated Plasma Peptidome. <i>Molecular and Cellular Proteomics</i> , 2017 , 16, 2055-2068	7.6	32
26	The diverse roles of protein kinase C in pancreatic beta-cell function. <i>Biochemical Society Transactions</i> , 2008 , 36, 916-9	5.1	26

25	Quantitative proteomic analysis of the adipocyte plasma membrane. <i>Journal of Proteome Research</i> , 2011 , 10, 4970-82	5.6	25
24	Systemic VEGF-A neutralization ameliorates diet-induced metabolic dysfunction. <i>Diabetes</i> , 2014 , 63, 2656-67	0.9	24
23	Novel systems for dynamically assessing insulin action in live cells reveals heterogeneity in the insulin response. <i>Traffic</i> , 2013 , 14, 259-73	5.7	23
22	Phosphoproteomics reveals conserved exercise-stimulated signaling and AMPK regulation of store-operated calcium entry. <i>EMBO Journal</i> , 2019 , 38, e102578	13	22
21	Serine 474 phosphorylation is essential for maximal Akt2 kinase activity in adipocytes. <i>Journal of Biological Chemistry</i> , 2019 , 294, 16729-16739	5.4	21
20	Direction pathway analysis of large-scale proteomics data reveals novel features of the insulin action pathway. <i>Bioinformatics</i> , 2014 , 30, 808-14	7.2	20
19	DOC2 isoforms play dual roles in insulin secretion and insulin-stimulated glucose uptake. <i>Diabetologia</i> , 2014 , 57, 2173-82	10.3	20
18	Glucose homeostasis in mice is transglutaminase 2 independent. <i>PLoS ONE</i> , 2013 , 8, e63346	3.7	19
17	Dilinoleoyl-phosphatidic acid mediates reduced IRS-1 tyrosine phosphorylation in rat skeletal muscle cells and mouse muscle. <i>Diabetologia</i> , 2007 , 50, 1732-42	10.3	18
16	Autoencoder-based cluster ensembles for single-cell RNA-seq data analysis. <i>BMC Bioinformatics</i> , 2019 , 20, 660	3.6	18
15	The role of the Niemann-Pick disease, type C1 protein in adipocyte insulin action. <i>PLoS ONE</i> , 2014 , 9, e95598	3.7	14
14	An improved Akt reporter reveals intra- and inter-cellular heterogeneity and oscillations in signal transduction. <i>Journal of Cell Science</i> , 2017 , 130, 2757-2766	5.3	12
13	Regulation of hepatic insulin signaling and glucose homeostasis by sphingosine kinase 2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 24434-24442	11.5	12
12	Mitochondrial oxidants, but not respiration, are sensitive to glucose in adipocytes. <i>Journal of Biological Chemistry</i> , 2020 , 295, 99-110	5.4	10
11	A generalised enzyme kinetic model for predicting the behaviour of complex biochemical systems. <i>FEBS Open Bio</i> , 2015 , 5, 226-39	2.7	9
10	A framework for generating realistic synthetic sequences of total internal reflection fluorescence microscopy images 2013 ,		8
9	Signaling Heterogeneity is Defined by Pathway Architecture and Intercellular Variability in Protein Expression. <i>IScience</i> , 2021 , 24, 102118	6.1	8
8	The amino acid transporter, SLC1A3, is plasma membrane-localised in adipocytes and its activity is insensitive to insulin. <i>FEBS Letters</i> , 2017 , 591, 322-330	3.8	7

7	Automatic identification of fusion events in TIRF microscopy image sequences 2009 ,		7
6	Towards fully automated identification of vesicle-membrane fusion events in TIRF microscopy. <i>International Journal of Computer Aided Engineering and Technology</i> , 2009 , 1, 502	0.5	5
5	Glucose Transport: Methods for Interrogating GLUT4 Trafficking in Adipocytes. <i>Methods in Molecular Biology</i> , 2018 , 1713, 193-215	1.4	5
4	CASK modulates the assembly and function of the Mint1/Munc18-1 complex to regulate insulin secretion. <i>Cell Discovery</i> , 2020 , 6, 92	22.3	3
3	Using Total Internal Reflection Fluorescence Microscopy (TIRFM) to Visualise Insulin Action. <i>Neuromethods</i> , 2012 , 97-109	0.4	3
2	Akt phosphorylates insulin receptor substrate to limit PI3K-mediated PIP3 synthesis. <i>ELife</i> , 2021 , 10,	8.9	2
1	A co-receptor that represses beta-cell insulin action. <i>Nature Metabolism</i> , 2021 , 3, 126-127	14.6	