James R Krycer

List of Publications by Year
in descending order

44 papers	1,822 citations	331670 21 h-index	289244 40 g-index
50 all docs	50 docs citations	50 times ranked	3315 citing authors

#	Article	IF	Citations
1	The Aktâ€"SREBP nexus: cell signaling meets lipid metabolism. Trends in Endocrinology and Metabolism, 2010, 21, 268-276.	7.1	275
2	Defining the Nutritional and Metabolic Context of FGF21ÂUsing the Geometric Framework. Cell Metabolism, 2016, 24, 555-565.	16.2	164
3	Mitochondrial oxidative stress causes insulin resistance without disrupting oxidative phosphorylation. Journal of Biological Chemistry, 2018, 293, 7315-7328.	3.4	110
4	Mitochondrial CoQ deficiency is a common driver of mitochondrial oxidants and insulin resistance. ELife, 2018, 7, .	6.0	91
5	Muscle and adipose tissue insulin resistance: malady without mechanism?. Journal of Lipid Research, 2019, 60, 1720-1732.	4.2	91
6	Is Mitochondrial Dysfunction a Common Root of Noncommunicable Chronic Diseases?. Endocrine Reviews, 2020, 41, .	20.1	76
7	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
8	Acute mTOR inhibition induces insulin resistance and alters substrate utilization inÂvivo. Molecular Metabolism, 2014, 3, 630-641.	6.5	68
9	A Practical Comparison of Ligation-Independent Cloning Techniques. PLoS ONE, 2013, 8, e83888.	2.5	65
10	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
11	A key regulator of cholesterol homoeostasis, SREBP-2, can be targeted in prostate cancer cells with natural products. Biochemical Journal, 2012, 446, 191-201.	3.7	59
12	Dynamic Metabolomics Reveals that Insulin Primes the Adipocyte for Glucose Metabolism. Cell Reports, 2017, 21, 3536-3547.	6.4	55
13	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
14	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
15	14-3-3Î¶ regulates the mitochondrial respiratory reserve linked to platelet phosphatidylserine exposure and procoagulant function. Nature Communications, 2016, 7, 12862.	12.8	49
16	mTORC2 and AMPK differentially regulate muscle triglyceride content via Perilipin 3. Molecular Metabolism, 2016, 5, 646-655.	6.5	44
17	Lactate production is a prioritized feature of adipocyte metabolism. Journal of Biological Chemistry, 2020, 295, 83-98.	3.4	44
18	Benzylserine inhibits breast cancer cell growth by disrupting intracellular amino acid homeostasis and triggering amino acid response pathways. BMC Cancer, 2018, 18, 689.	2.6	43

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19	Serine 474 phosphorylation is essential for maximal Akt2 kinase activity in adipocytes. Journal of Biological Chemistry, 2019, 294, 16729-16739.	3.4	32
20	Insulin signaling requires glucose to promote lipid anabolism in adipocytes. Journal of Biological Chemistry, 2020, 295, 13250-13266.	3.4	31
21	Acute activation of pyruvate dehydrogenase increases glucose oxidation in muscle without changing glucose uptake. American Journal of Physiology - Endocrinology and Metabolism, 2018, 315, E258-E266.	3.5	25
22	Dynamic 13C Flux Analysis Captures the Reorganization of Adipocyte Glucose Metabolism in Response to Insulin. IScience, 2020, 23, 100855.	4.1	24
23	The Role of the Niemann-Pick Disease, Type C1 Protein in Adipocyte Insulin Action. PLoS ONE, 2014, 9, e95598.	2.5	21
24	Mitochondrial oxidants, but not respiration, are sensitive to glucose in adipocytes. Journal of Biological Chemistry, 2020, 295, 99-110.	3.4	20
25	SnapShot: Insulin/IGF1 Signaling. Cell, 2015, 161, 948-948.e1.	28.9	19
26	ORTI: An Open-Access Repository of Transcriptional Interactions for Interrogating Mammalian Gene Expression Data. PLoS ONE, 2016, 11, e0164535.	2.5	19
27	Kinetic Trans-omic Analysis Reveals Key Regulatory Mechanisms for Insulin-Regulated Glucose Metabolism in Adipocytes. IScience, 2020, 23, 101479.	4.1	17
28	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
29	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
30	Unraveling Kinase Activation Dynamics Using Kinase-Substrate Relationships from Temporal Large-Scale Phosphoproteomics Studies. PLoS ONE, 2016, 11, e0157763.	2.5	14
31	Bicarbonate alters cellular responses in respiration assays. Biochemical and Biophysical Research Communications, 2017, 489, 399-403.	2.1	11
32	Trafficking regulator of GLUT4-1 (TRARG1) is a GSK3 substrate. Biochemical Journal, 2022, 479, 1237-1256.	3.7	11
33	Temporal ordering of omics and multiomic events inferred from time-series data. Npj Systems Biology and Applications, 2020, 6, 22.	3.0	10
34	Dissecting the biology of mTORC1 beyond rapamycin. Science Signaling, 2021, 14, eabe0161.	3.6	10
35	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
36	Rate-oriented trans-omics: integration of multiple omic data on the basis of reaction kinetics. Current Opinion in Systems Biology, 2019, 15, 109-120.	2.6	9

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37	A modified gas-trapping method for high-throughput metabolic experiments inDrosophila melanogaster. BioTechniques, 2019, 67, 123-125.	1.8	7
38	Cannabichromene and Î”⁹-Tetrahydrocannabinolic Acid Identified as Lactate Dehydrogenase-A Inhibitors by <i>in Silico</i> and <i>in Vitro</i> Screening. Journal of Natural Products, 2021, 84, 1469-1477.	3.0	6
39	A gas trapping method for high-throughput metabolic experiments. BioTechniques, 2018, 64, 27-29.	1.8	5
40	Membrane Topology of Trafficking Regulator of GLUT4 1 (TRARG1). Biochemistry, 2018, 57, 3606-3615.	2.5	4
41	Genome-wide analysis in <i>Drosophila</i> reveals diet-by-gene interactions and uncovers diet-responsive genes. G3: Genes, Genomes, Genetics, 2021, 11, .	1.8	3
42	High throughput protein-protein interaction data: clues for the architecture of protein complexes. Proteome Science, 2008, 6, 32.	1.7	2
43	Metabolic buffer analysis reveals the simultaneous, independent control of ATP and adenylate energy ratios. Journal of the Royal Society Interface, 2021, 18, 20200976.	3.4	2
44	A cell culture platform for quantifying metabolic substrate oxidation in bicarbonate-buffered medium. Journal of Biological Chemistry, 2022, 298, 101547.	3.4	1