

# James R Krycer

## List of Publications by Year in Descending Order

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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

1,181  
citations

19  
h-index

34  
g-index

50  
ext. papers

1,550  
ext. citations

7.3  
avg, IF

4.28  
L-index

#	Paper	IF	Citations
42	A cell culture platform for quantifying metabolic substrate oxidation in bicarbonate-buffered medium.. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 101547	5.4	0
41	Metabolic buffer analysis reveals the simultaneous, independent control of ATP and adenylate energy ratios. <i>Journal of the Royal Society Interface</i> , <b>2021</b> , 18, 20200976	4.1	1
40	Cannabichromene and $\Delta^9$ Tetrahydrocannabinolic Acid Identified as Lactate Dehydrogenase-A Inhibitors by and Screening. <i>Journal of Natural Products</i> , <b>2021</b> , 84, 1469-1477	4.9	3
39	Dissecting the biology of mTORC1 beyond rapamycin. <i>Science Signaling</i> , <b>2021</b> , 14, eabe0161	8.8	0
38	Is Mitochondrial Dysfunction a Common Root of Noncommunicable Chronic Diseases?. <i>Endocrine Reviews</i> , <b>2020</b> , 41,	27.2	29
37	Dynamic C Flux Analysis Captures the Reorganization of Adipocyte Glucose Metabolism in Response to Insulin. <i>IScience</i> , <b>2020</b> , 23, 100855	6.1	11
36	Lactate production is a prioritized feature of adipocyte metabolism. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 83-98	5.4	20
35	Mitochondrial oxidants, but not respiration, are sensitive to glucose in adipocytes. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 99-110	5.4	10
34	Kinetic Trans-omic Analysis Reveals Key Regulatory Mechanisms for Insulin-Regulated Glucose Metabolism in Adipocytes. <i>IScience</i> , <b>2020</b> , 23, 101479	6.1	9
33	Insulin signaling requires glucose to promote lipid anabolism in adipocytes. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 13250-13266	5.4	11
32	Temporal ordering of omics and multiomic events inferred from time-series data. <i>Npj Systems Biology and Applications</i> , <b>2020</b> , 6, 22	5	5
31	Serine 474 phosphorylation is essential for maximal Akt2 kinase activity in adipocytes. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 16729-16739	5.4	21
30	Muscle and adipose tissue insulin resistance: malady without mechanism?. <i>Journal of Lipid Research</i> , <b>2019</b> , 60, 1720-1732	6.3	36
29	A modified gas-trapping method for high-throughput metabolic experiments in. <i>BioTechniques</i> , <b>2019</b> , 67, 123-125	2.5	4
28	Rate-oriented trans-omics: integration of multiple omic data on the basis of reaction kinetics. <i>Current Opinion in Systems Biology</i> , <b>2019</b> , 15, 109-120	3.2	8
27	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> , <b>2019</b> , 316, E578-E589	6	32
26	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> , <b>2018</b> , 293, 5731-5745	5.4	42

25	The transcriptional response to oxidative stress is part of, but not sufficient for, insulin resistance in adipocytes. <i>Scientific Reports</i> , <b>2018</b> , 8, 1774	4.9	9
24	Mitochondrial oxidative stress causes insulin resistance without disrupting oxidative phosphorylation. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 7315-7328	5.4	69
23	Acute activation of pyruvate dehydrogenase increases glucose oxidation in muscle without changing glucose uptake. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2018</b> , 315, E258-E266 <sup>17</sup>	6.1	17
22	Benzylserine inhibits breast cancer cell growth by disrupting intracellular amino acid homeostasis and triggering amino acid response pathways. <i>BMC Cancer</i> , <b>2018</b> , 18, 689	4.8	23
21	Membrane Topology of Trafficking Regulator of GLUT4 1 (TRARG1). <i>Biochemistry</i> , <b>2018</b> , 57, 3606-3615	3.2	1
20	A gas trapping method for high-throughput metabolic experiments. <i>BioTechniques</i> , <b>2018</b> , 64, 27-29	2.5	5
19	Mitochondrial CoQ deficiency is a common driver of mitochondrial oxidants and insulin resistance. <i>ELife</i> , <b>2018</b> , 7,	8.9	61
18	Bicarbonate alters cellular responses in respiration assays. <i>Biochemical and Biophysical Research Communications</i> , <b>2017</b> , 489, 399-403	3.4	7
17	The amino acid transporter, SLC1A3, is plasma membrane-localised in adipocytes and its activity is insensitive to insulin. <i>FEBS Letters</i> , <b>2017</b> , 591, 322-330	3.8	7
16	An improved Akt reporter reveals intra- and inter-cellular heterogeneity and oscillations in signal transduction. <i>Journal of Cell Science</i> , <b>2017</b> , 130, 2757-2766	5.3	12
15	Dynamic Metabolomics Reveals that Insulin Primes the Adipocyte for Glucose Metabolism. <i>Cell Reports</i> , <b>2017</b> , 21, 3536-3547	10.6	34
14	mTORC2 and AMPK differentially regulate muscle triglyceride content via Perilipin 3. <i>Molecular Metabolism</i> , <b>2016</b> , 5, 646-655	8.8	37
13	14-3-3 $\beta$ regulates the mitochondrial respiratory reserve linked to platelet phosphatidylserine exposure and procoagulant function. <i>Nature Communications</i> , <b>2016</b> , 7, 12862	17.4	34
12	Unraveling Kinase Activation Dynamics Using Kinase-Substrate Relationships from Temporal Large-Scale Phosphoproteomics Studies. <i>PLoS ONE</i> , <b>2016</b> , 11, e0157763	3.7	9
11	ORTI: An Open-Access Repository of Transcriptional Interactions for Interrogating Mammalian Gene Expression Data. <i>PLoS ONE</i> , <b>2016</b> , 11, e0164535	3.7	12
10	Defining the Nutritional and Metabolic Context of FGF21 Using the Geometric Framework. <i>Cell Metabolism</i> , <b>2016</b> , 24, 555-565	24.6	118
9	SnapShot: Insulin/IGF1 Signaling. <i>Cell</i> , <b>2015</b> , 161, 948-948.e1	56.2	15
8	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> , <b>2015</b> , 290, 23528-42	5.4	35

7	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> , <b>2015</b> , 290, 25834-46	5.4	37
6	Acute mTOR inhibition induces insulin resistance and alters substrate utilization in vivo. <i>Molecular Metabolism</i> , <b>2014</b> , 3, 630-41	8.8	57
5	The role of the Niemann-Pick disease, type C1 protein in adipocyte insulin action. <i>PLoS ONE</i> , <b>2014</b> , 9, e95598	3.7	14
4	A practical comparison of ligation-independent cloning techniques. <i>PLoS ONE</i> , <b>2013</b> , 8, e83888	3.7	48
3	A key regulator of cholesterol homeostasis, SREBP-2, can be targeted in prostate cancer cells with natural products. <i>Biochemical Journal</i> , <b>2012</b> , 446, 191-201	3.8	53
2	The Akt-SREBP nexus: cell signaling meets lipid metabolism. <i>Trends in Endocrinology and Metabolism</i> , <b>2010</b> , 21, 268-76	8.8	223
1	High throughput protein-protein interaction data: clues for the architecture of protein complexes. <i>Proteome Science</i> , <b>2008</b> , 6, 32	2.6	1