# James R Krycer

## List of Publications by Citations



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|---|---|---|---|
| 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 | The Akt-SREBP nexus: cell signaling meets lipid metabolism. *Trends in Endocrinology and Metabolism*, **2010**, 21, 268-76 | 8.8 | 223 |
| 41 | Defining the Nutritional and Metabolic Context of FGF21 Using the Geometric Framework. *Cell Metabolism*, **2016**, 24, 555-565 | 24.6 | 118 |
| 40 | Mitochondrial oxidative stress causes insulin resistance without disrupting oxidative phosphorylation. *Journal of Biological Chemistry*, **2018**, 293, 7315-7328 | 5.4 | 69 |
| 39 | Mitochondrial CoQ deficiency is a common driver of mitochondrial oxidants and insulin resistance. *ELife*, **2018**, 7, | 8.9 | 61 |
| 38 | Acute mTOR inhibition induces insulin resistance and alters substrate utilization in vivo. *Molecular Metabolism*, **2014**, 3, 630-41 | 8.8 | 57 |
| 37 | A key regulator of cholesterol homoeostasis, SREBP-2, can be targeted in prostate cancer cells with natural products. *Biochemical Journal*, **2012**, 446, 191-201 | 3.8 | 53 |
| 36 | A practical comparison of ligation-independent cloning techniques. *PLoS ONE*, **2013**, 8, e83888 | 3.7 | 48 |
| 35 | High dietary fat and sucrose results in an extensive and time-dependent deterioration in health of multiple physiological systems in mice. *Journal of Biological Chemistry*, **2018**, 293, 5731-5745 | 5.4 | 42 |
| 34 | 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, 25834-46 | 5.4 | 37 |
| 33 | mTORC2 and AMPK differentially regulate muscle triglyceride content via Perilipin 3. *Molecular Metabolism*, **2016**, 5, 646-655 | 8.8 | 37 |
| 32 | Muscle and adipose tissue insulin resistance: malady without mechanism?. *Journal of Lipid Research*, **2019**, 60, 1720-1732 | 6.3 | 36 |
| 31 | 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, 23528-42 | 5.4 | 35 |
| 30 | 14-3-3 regulates the mitochondrial respiratory reserve linked to platelet phosphatidylserine exposure and procoagulant function. *Nature Communications*, **2016**, 7, 12862 | 17.4 | 34 |
| 29 | Dynamic Metabolomics Reveals that Insulin Primes the Adipocyte for Glucose Metabolism. *Cell Reports*, **2017**, 21, 3536-3547 | 10.6 | 34 |
| 28 | 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 | 6 | 32 |
| 27 | Is Mitochondrial Dysfunction a Common Root of Noncommunicable Chronic Diseases?. *Endocrine Reviews*, **2020**, 41, | 27.2 | 29 |
| 26 | Benzylserine inhibits breast cancer cell growth by disrupting intracellular amino acid homeostasis and triggering amino acid response pathways. *BMC Cancer*, **2018**, 18, 689 | 4.8 | 23 |

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| 25 | Serine 474 phosphorylation is essential for maximal Akt2 kinase activity in adipocytes. *Journal of Biological Chemistry*, **2019**, 294, 16729-16739 | 5.4 | 21 |
| 24 | Lactate production is a prioritized feature of adipocyte metabolism. *Journal of Biological Chemistry*, **2020**, 295, 83-98 | 5.4 | 20 |
| 23 | 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 | 6 | 17 |
| 22 | SnapShot: Insulin/IGF1 Signaling. *Cell*, **2015**, 161, 948-948.e1 | 56.2 | 15 |
| 21 | The role of the Niemann-Pick disease, type C1 protein in adipocyte insulin action. *PLoS ONE*, **2014**, 9, e95598 | 3.7 | 14 |
| 20 | An improved Akt reporter reveals intra- and inter-cellular heterogeneity and oscillations in signal transduction. *Journal of Cell Science*, **2017**, 130, 2757-2766 | 5.3 | 12 |
| 19 | ORTI: An Open-Access Repository of Transcriptional Interactions for Interrogating Mammalian Gene Expression Data. *PLoS ONE*, **2016**, 11, e0164535 | 3.7 | 12 |
| 18 | Dynamic C Flux Analysis Captures the Reorganization of Adipocyte Glucose Metabolism in Response to Insulin. *IScience*, **2020**, 23, 100855 | 6.1 | 11 |
| 17 | Insulin signaling requires glucose to promote lipid anabolism in adipocytes. *Journal of Biological Chemistry*, **2020**, 295, 13250-13266 | 5.4 | 11 |
| 16 | Mitochondrial oxidants, but not respiration, are sensitive to glucose in adipocytes. *Journal of Biological Chemistry*, **2020**, 295, 99-110 | 5.4 | 10 |
| 15 | The transcriptional response to oxidative stress is part of, but not sufficient for, insulin resistance in adipocytes. *Scientific Reports*, **2018**, 8, 1774 | 4.9 | 9 |
| 14 | Unraveling Kinase Activation Dynamics Using Kinase-Substrate Relationships from Temporal Large-Scale Phosphoproteomics Studies. *PLoS ONE*, **2016**, 11, e0157763 | 3.7 | 9 |
| 13 | Kinetic Trans-omic Analysis Reveals Key Regulatory Mechanisms for Insulin-Regulated Glucose Metabolism in Adipocytes. *IScience*, **2020**, 23, 101479 | 6.1 | 9 |
| 12 | Rate-oriented trans-omics: integration of multiple omic data on the basis of reaction kinetics. *Current Opinion in Systems Biology*, **2019**, 15, 109-120 | 3.2 | 8 |
| 11 | Bicarbonate alters cellular responses in respiration assays. *Biochemical and Biophysical Research Communications*, **2017**, 489, 399-403 | 3.4 | 7 |
| 10 | The amino acid transporter, SLC1A3, is plasma membrane-localised in adipocytes and its activity is insensitive to insulin. *FEBS Letters*, **2017**, 591, 322-330 | 3.8 | 7 |
| 9 | Temporal ordering of omics and multiomic events inferred from time-series data. *Npj Systems Biology and Applications*, **2020**, 6, 22 | 5 | 5 |
| 8 | A gas trapping method for high-throughput metabolic experiments. *BioTechniques*, **2018**, 64, 27-29 | 2.5 | 5 |

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| 7 | A modified gas-trapping method for high-throughput metabolic experiments in. *BioTechniques*, **2019**, 67, 123-125 | 2.5 | 4 |
| 6 | Cannabichromene and Tetrahydrocannabinolic Acid Identified as Lactate Dehydrogenase-A Inhibitors by and Screening. *Journal of Natural Products*, **2021**, 84, 1469-1477 | 4.9 | 3 |
| 5 | High throughput protein-protein interaction data: clues for the architecture of protein complexes. *Proteome Science*, **2008**, 6, 32 | 2.6 | 1 |
| 4 | Metabolic buffer analysis reveals the simultaneous, independent control of ATP and adenylate energy ratios. *Journal of the Royal Society Interface*, **2021**, 18, 20200976 | 4.1 | 1 |
| 3 | Membrane Topology of Trafficking Regulator of GLUT4 1 (TRARG1). *Biochemistry*, **2018**, 57, 3606-3615 | 3.2 | 1 |
| 2 | A cell culture platform for quantifying metabolic substrate oxidation in bicarbonate-buffered medium.. *Journal of Biological Chemistry*, **2021**, 101547 | 5.4 | 0 |
| 1 | Dissecting the biology of mTORC1 beyond rapamycin. *Science Signaling*, **2021**, 14, eabe0161 | 8.8 | 0 |