

# Ajit S Divakaruni

## List of Publications by Year in descending order

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Version: 2024-02-01

45  
papers

4,460  
citations

196777

29  
h-index

274796

44  
g-index

48  
all docs

48  
docs citations

48  
times ranked

10269  
citing authors

#	ARTICLE	IF	CITATIONS
1	Amine-weighted chemical exchange saturation transfer magnetic resonance imaging in brain tumors. <i>NMR in Biomedicine</i> , 2023, 36, .	1.6	7
2	Forces, Fluxes, and Fuels: Tracking mitochondrial metabolism by integrating measurements of membrane potential, respiration, and metabolites. <i>American Journal of Physiology - Cell Physiology</i> , 2021, 320, C80-C91.	2.1	10
3	Liver Pyruvate Kinase Promotes NAFLD/NASH in Both Mice and Humans in a Sex-Specific Manner. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2021, 11, 389-406.	2.3	37
4	Adipocytes Provide Fatty Acids to Acute Lymphoblastic Leukemia Cells. <i>Frontiers in Oncology</i> , 2021, 11, 665763.	1.3	29
5	A Single LC-MS/MS Analysis to Quantify CoA Biosynthetic Intermediates and Short-Chain Acyl CoAs. <i>Metabolites</i> , 2021, 11, 468.	1.3	11
6	Measuring CPT-1-mediated respiration in permeabilized cells and isolated mitochondria. <i>STAR Protocols</i> , 2021, 2, 100687.	0.5	8
7	“Aerobic glycolytic imaging” of human gliomas using combined pH-, oxygen-, and perfusion-weighted magnetic resonance imaging. <i>NeuroImage: Clinical</i> , 2021, 32, 102882.	1.4	8
8	ACE overexpression in myeloid cells increases oxidative metabolism and cellular ATP. <i>Journal of Biological Chemistry</i> , 2020, 295, 1369-1384.	1.6	23
9	Itaconate modulates tricarboxylic acid and redox metabolism to mitigate reperfusion injury. <i>Molecular Metabolism</i> , 2020, 32, 122-135.	3.0	83
10	Do Two Mitochondrial Wrongs Help Make Cells Right?. <i>Trends in Molecular Medicine</i> , 2020, 26, 3-6.	3.5	1
11	Toll-Like Receptors Induce Signal-Specific Reprogramming of the Macrophage Lipidome. <i>Cell Metabolism</i> , 2020, 32, 128-143.e5.	7.2	78
12	Macrophage activation as an archetype of mitochondrial repurposing. <i>Molecular Aspects of Medicine</i> , 2020, 71, 100838.	2.7	18
13	Glioblastoma Utilizes Fatty Acids and Ketone Bodies for Growth Allowing Progression during Ketogenic Diet Therapy. <i>iScience</i> , 2020, 23, 101453.	1.9	47
14	ACE overexpression in myeloid cells increases oxidative metabolism and cellular ATP. <i>Journal of Biological Chemistry</i> , 2020, 295, 1369-1384.	1.6	18
15	A novel approach to measure mitochondrial respiration in frozen biological samples. <i>EMBO Journal</i> , 2020, 39, e104073.	3.5	110
16	Blocking mitochondrial pyruvate import in brown adipocytes induces energy wasting via lipid cycling. <i>EMBO Reports</i> , 2020, 21, e49634.	2.0	31
17	Parkin does not prevent accelerated cardiac aging in mitochondrial DNA mutator mice. <i>JCI Insight</i> , 2019, 4, .	2.3	39
18	In situ measurements of mitochondrial matrix enzyme activities using plasma and mitochondrial membrane permeabilization agents. <i>Analytical Biochemistry</i> , 2018, 552, 60-65.	1.1	12

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19	Integrated In Vivo Quantitative Proteomics and Nutrient Tracing Reveals Age-Related Metabolic Rewiring of Pancreatic $\beta$ Cell Function. <i>Cell Reports</i> , 2018, 25, 2904-2918.e8.	2.9	44
20	Etomoxir Inhibits Macrophage Polarization by Disrupting CoA Homeostasis. <i>Cell Metabolism</i> , 2018, 28, 490-503.e7.	7.2	242
21	Etomoxir Actions on Regulatory and Memory T Cells Are Independent of Cpt1a-Mediated Fatty Acid Oxidation. <i>Cell Metabolism</i> , 2018, 28, 504-515.e7.	7.2	264
22	Preserved cardiac function by vinculin enhances glucose oxidation and extends health- and life-span. <i>APL Bioengineering</i> , 2018, 2, .	3.3	5
23	Inhibition of the mitochondrial pyruvate carrier protects from excitotoxic neuronal death. <i>Journal of Cell Biology</i> , 2017, 216, 1091-1105.	2.3	140
24	Impaired mitophagy facilitates mitochondrial damage in Danon disease. <i>Journal of Molecular and Cellular Cardiology</i> , 2017, 108, 86-94.	0.9	57
25	LKB1 promotes metabolic flexibility in response to energy stress. <i>Metabolic Engineering</i> , 2017, 43, 208-217.	3.6	42
26	Critical Role of Glucose Metabolism in Rheumatoid Arthritis Fibroblast-like Synoviocytes. <i>Arthritis and Rheumatology</i> , 2016, 68, 1614-1626.	2.9	197
27	Sestrin2 is induced by glucose starvation via the unfolded protein response and protects cells from non-canonical necroptotic cell death. <i>Scientific Reports</i> , 2016, 6, 22538.	1.6	85
28	Immunoresponsive Gene 1 and Itaconate Inhibit Succinate Dehydrogenase to Modulate Intracellular Succinate Levels. <i>Journal of Biological Chemistry</i> , 2016, 291, 14274-14284.	1.6	342
29	Distinct Metabolic States Can Support Self-Renewal and Lipogenesis in Human Pluripotent Stem Cells under Different Culture Conditions. <i>Cell Reports</i> , 2016, 16, 1536-1547.	2.9	112
30	Branched-chain amino acid catabolism fuels adipocyte differentiation and lipogenesis. <i>Nature Chemical Biology</i> , 2016, 12, 15-21.	3.9	326
31	HIV alters neuronal mitochondrial fission/fusion in the brain during HIV-associated neurocognitive disorders. <i>Neurobiology of Disease</i> , 2016, 86, 154-169.	2.1	79
32	Mitochondrial Reprogramming Induced by CaMKII $\beta$ Mediates Hypertrophy Decompensation. <i>Circulation Research</i> , 2015, 116, e28-39.	2.0	47
33	GLP-1 Cleavage Product Reverses Persistent ROS Generation After Transient Hyperglycemia by Disrupting an ROS-Generating Feedback Loop. <i>Diabetes</i> , 2015, 64, 3273-3284.	0.3	72
34	Proteomic and Metabolic Analyses of S49 Lymphoma Cells Reveal Novel Regulation of Mitochondria by cAMP and Protein Kinase A. <i>Journal of Biological Chemistry</i> , 2015, 290, 22274-22286.	1.6	9
35	Cyclic AMP/PKA-Mediated Regulation of Mitochondria and Branched-Chain Amino Acid Metabolism in S49 Lymphoma Cells. <i>FASEB Journal</i> , 2015, 29, 896.5.	0.2	0
36	Analysis and Interpretation of Microplate-Based Oxygen Consumption and pH Data. <i>Methods in Enzymology</i> , 2014, 547, 309-354.	0.4	351

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37	Assessment of Fatty Acid Beta Oxidation in Cells and Isolated Mitochondria. Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al ], 2014, 60, 25.3.1-19.	1.1	29
38	Identification of a novel mitochondrial uncoupler that does not depolarize the plasma membrane. Molecular Metabolism, 2014, 3, 114-123.	3.0	168
39	Regulation of Substrate Utilization by the Mitochondrial Pyruvate Carrier. Molecular Cell, 2014, 56, 425-435.	4.5	243
40	Measuring Mitochondrial Function in Permeabilized Cells Using the Seahorse XF Analyzer or a Clark-type Oxygen Electrode. Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al ], 2014, 60, 25.2.1-16.	1.1	98
41	IDH1 Mutations Alter Citric Acid Cycle Metabolism and Increase Dependence on Oxidative Mitochondrial Metabolism. Cancer Research, 2014, 74, 3317-3331.	0.4	224
42	Thiazolidinediones are acute, specific inhibitors of the mitochondrial pyruvate carrier. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5422-5427.	3.3	239
43	Wolfram Syndrome protein, Miner1, regulates sulphhydryl redox status, the unfolded protein response, and Ca <sup>2+</sup> homeostasis. EMBO Molecular Medicine, 2013, 5, 904-918.	3.3	101
44	A Mitochondrial Mystery, Solved. Science, 2012, 337, 41-43.	6.0	32
45	The Regulation and Physiology of Mitochondrial Proton Leak. Physiology, 2011, 26, 192-205.	1.6	335