

# Akos A Gerencser

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

3,728  
citations

218677

26  
h-index

276875

41  
g-index

41  
all docs

41  
docs citations

41  
times ranked

6473  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of sugars, fatty acids and amino acids on cytosolic and mitochondrial hydrogen peroxide release from liver cells. <i>Free Radical Biology and Medicine</i> , 2022, 188, 92-102.	2.9	10
2	Quantitative analysis of mitochondrial membrane potential heterogeneity in unsynchronized and synchronized cancer cells. <i>FASEB Journal</i> , 2021, 35, e21148.	0.5	23
3	Superoxide produced by mitochondrial site IQ inactivates cardiac succinate dehydrogenase and induces hepatic steatosis in Sod2 knockout mice. <i>Free Radical Biology and Medicine</i> , 2021, 164, 223-232.	2.9	14
4	Controlled power: how biology manages succinate-driven energy release. <i>Biochemical Society Transactions</i> , 2021, 49, 2929-2939.	3.4	10
5	Total Cellular ATP Production Changes With Primary Substrate in MCF7 Breast Cancer Cells. <i>Frontiers in Oncology</i> , 2020, 10, 1703.	2.8	15
6	The Mitochondrial Targets of Neuroprotective Drug Vinpocetine on Primary Neuron Cultures, Brain Capillary Endothelial Cells, Synaptosomes, and Brain Mitochondria. <i>Neurochemical Research</i> , 2019, 44, 2435-2447.	3.3	12
7	Osteoblast-like MC3T3-E1 Cells Prefer Glycolysis for ATP Production but Adipocyte-like 3T3-L1 Cells Prefer Oxidative Phosphorylation. <i>Journal of Bone and Mineral Research</i> , 2018, 33, 1052-1065.	2.8	71
8	Natural Genetic Variation in Yeast Reveals That NEDD4 Is a Conserved Modifier of Mutant Polyglutamine Aggregation. <i>G3: Genes, Genomes, Genetics</i> , 2018, 8, 3421-3431.	1.8	5
9	Metabolic activation-driven mitochondrial hyperpolarization predicts insulin secretion in human pancreatic beta-cells. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018, 1859, 817-828.	1.0	25
10	Quantifying intracellular rates of glycolytic and oxidative ATP production and consumption using extracellular flux measurements. <i>Journal of Biological Chemistry</i> , 2017, 292, 7189-7207.	3.4	343
11	ROS Control Mitochondrial Motility through p38 and the Motor Adaptor Miro/Trak. <i>Cell Reports</i> , 2017, 21, 1667-1680.	6.4	100
12	Positive Feedback Amplifies the Response of Mitochondrial Membrane Potential to Glucose Concentration in Clonal Pancreatic Beta Cells. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 1054-1065.	3.8	15
13	Suppressors of Superoxide-H <sub>2</sub> O <sub>2</sub> Production at Site I Q of Mitochondrial Complex I Protect against Stem Cell Hyperplasia and Ischemia-Reperfusion Injury. <i>Cell Metabolism</i> , 2016, 24, 582-592.	16.2	162
14	Exploiting Mitochondria In Vivo as Chemical Reaction Chambers Dependent on Membrane Potential. <i>Molecular Cell</i> , 2016, 61, 642-643.	9.7	9
15	Measurement of the Absolute Magnitude and Time Courses of Mitochondrial Membrane Potential in Primary and Clonal Pancreatic Beta-Cells. <i>PLoS ONE</i> , 2016, 11, e0159199.	2.5	24
16	Calcium modulation of exocytosis-linked plasma membrane potential oscillations in INS-1 832/13 cells. <i>Biochemical Journal</i> , 2015, 471, 111-122.	3.7	10
17	Mitochondrial Alterations by PARKIN in Dopaminergic Neurons Using PARK2 Patient-Specific and PARK2 Knockout Isogenic iPSC Lines. <i>Stem Cell Reports</i> , 2015, 4, 847-859.	4.8	128
18	The Role of Mitochondrially Derived ATP in Synaptic Vesicle Recycling. <i>Journal of Biological Chemistry</i> , 2015, 290, 22325-22336.	3.4	219

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19	Bioenergetic Analysis of Single Pancreatic $\beta$ -Cells Indicates an Impaired Metabolic Signature in Type 2 Diabetic Subjects. <i>Endocrinology</i> , 2015, 156, 3496-3503.	2.8	16
20	The contributions of respiration and glycolysis to extracellular acid production. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015, 1847, 171-181.	1.0	264
21	Mitochondrial bioenergetics and neuronal survival modelled in primary neuronal culture and isolated nerve terminals. <i>Journal of Bioenergetics and Biomembranes</i> , 2015, 47, 63-74.	2.3	31
22	Novel Inhibitors of Mitochondrial sn-Glycerol 3-phosphate Dehydrogenase. <i>PLoS ONE</i> , 2014, 9, e89938.	2.5	46
23	Sites of superoxide and hydrogen peroxide production during fatty acid oxidation in rat skeletal muscle mitochondria. <i>Free Radical Biology and Medicine</i> , 2013, 61, 298-309.	2.9	103
24	PGC-1 $\beta$ and Reactive Oxygen Species Regulate Human Embryonic Stem Cell-Derived Cardiomyocyte Function. <i>Stem Cell Reports</i> , 2013, 1, 560-574.	4.8	59
25	No Consistent Bioenergetic Defects in Presynaptic Nerve Terminals Isolated from Mouse Models of Alzheimer's Disease. <i>Journal of Neuroscience</i> , 2012, 32, 16775-16784.	3.6	27
26	Quantitative measurement of mitochondrial membrane potential in cultured cells: calcium-induced deactivation and hyperpolarization of neuronal mitochondria. <i>Journal of Physiology</i> , 2012, 590, 2845-2871.	2.9	172
27	A reduction in ATP demand and mitochondrial activity with neural differentiation of human embryonic stem cells. <i>Journal of Cell Science</i> , 2011, 124, 348-358.	2.0	151
28	Impaired spare respiratory capacity in cortical synaptosomes from Sod2 null mice. <i>Free Radical Biology and Medicine</i> , 2011, 50, 866-873.	2.9	34
29	The Mechanism of Superoxide Production by the Antimycin-inhibited Mitochondrial Q-cycle. <i>Journal of Biological Chemistry</i> , 2011, 286, 31361-31372.	3.4	158
30	Intrinsic Bioenergetic Properties and Stress Sensitivity of Dopaminergic Synaptosomes. <i>Journal of Neuroscience</i> , 2011, 31, 4524-4534.	3.6	46
31	Complex Contribution of Cyclophilin D to Ca <sup>2+</sup> -induced Permeability Transition in Brain Mitochondria, with Relation to the Bioenergetic State. <i>Journal of Biological Chemistry</i> , 2011, 286, 6345-6353.	3.4	27
32	Forward operation of adenine nucleotide translocase during F <sub>0</sub> F <sub>1</sub> -ATPase reversal: critical role of matrix substrate-level phosphorylation. <i>FASEB Journal</i> , 2010, 24, 2405-2416.	0.5	91
33	Real-time visualization of cytoplasmic calpain activation and calcium deregulation in acute glutamate excitotoxicity. <i>Journal of Neurochemistry</i> , 2009, 110, 990-1004.	3.9	33
34	Quantitative Microplate-Based Respirometry with Correction for Oxygen Diffusion. <i>Analytical Chemistry</i> , 2009, 81, 6868-6878.	6.5	290
35	Bioenergetic analysis of isolated cerebrocortical nerve terminals on a microgram scale: spare respiratory capacity and stochastic mitochondrial failure. <i>Journal of Neurochemistry</i> , 2009, 109, 1179-1191.	3.9	186
36	Mitochondrial Swelling Measurement In Situ by Optimized Spatial Filtering: Astrocyte-Neuron Differences. <i>Biophysical Journal</i> , 2008, 95, 2583-2598.	0.5	60

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37	Measurement of Instantaneous Velocity Vectors of Organelle Transport: Mitochondrial Transport and Bioenergetics in Hippocampal Neurons. <i>Biophysical Journal</i> , 2008, 95, 3079-3099.	0.5	43
38	Nitric oxide-induced mitochondrial fission is regulated by dynamin-related GTPases in neurons. <i>EMBO Journal</i> , 2006, 25, 3900-3911.	7.8	603
39	Mitochondrial Ca <sup>2+</sup> Dynamics Reveals Limited Intramitochondrial Ca <sup>2+</sup> Diffusion. <i>Biophysical Journal</i> , 2005, 88, 698-714.	0.5	51
40	Inhibition of glutamate-induced delayed calcium deregulation by 2-APB and La <sup>3+</sup> in cultured cortical neurones. <i>Journal of Neurochemistry</i> , 2004, 91, 471-483.	3.9	41