Martin Jaburek

List of Publications by Year
in descending order

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51 papers	2,393 citations	201385 27 h-index	223531 46 g-index
71 all docs	71 docs citations	71 times ranked	2344 citing authors

#	Article	IF	Citations
1	Transport Function and Regulation of Mitochondrial Uncoupling Proteins 2 and 3. Journal of Biological Chemistry, 1999, 274, 26003-26007.	1.6	296
2	State-dependent Inhibition of the Mitochondrial KATP Channel by Glyburide and 5-Hydroxydecanoate. Journal of Biological Chemistry, 1998, 273, 13578-13582.	1.6	224
3	The direct physiological effects of mitoKATP opening on heart mitochondria. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H406-H415.	1.5	175
4	Mitochondrial PKCÎµ and Mitochondrial ATP-Sensitive K + Channel Copurify and Coreconstitute to Form a Functioning Signaling Module in Proteoliposomes. Circulation Research, 2006, 99, 878-883.	2.0	140
5	The mechanism of proton transport mediated by mitochondrial uncoupling proteins. FEBS Letters, 1998, 438, 10-14.	1.3	132
6	How do uncoupling proteins uncouple?. Biochimica Et Biophysica Acta - Bioenergetics, 2000, 1459, 383-389.	0.5	106
7	Polyunsaturated fatty acids activate human uncoupling proteins 1 and 2 in planar lipid bilayers. FASEB Journal, 2007, 21, 1137-1144.	0.2	102
8	Reconstitution of Recombinant Uncoupling Proteins. Journal of Biological Chemistry, 2003, 278, 25825-25831.	1.6	101
9	Mitochondrial Uncoupling Proteins: Subtle Regulators of Cellular Redox SignalingReviewing Editors:Jerzy Beltowski, Joseph Burgoyne, Gabor Csanyi, Sergey Dikalov, Frank Krause, Anibal Vercesi, and Jeremy Ward. Antioxidants and Redox Signaling, 2018, 29, 667-714.	2.5	93
10	Hydroperoxy Fatty Acid Cycling Mediated by Mitochondrial Uncoupling Protein UCP2. Journal of Biological Chemistry, 2004, 279, 53097-53102.	1.6	84
11	Role of the Transmembrane Potential in the Membrane Proton Leak. Biophysical Journal, 2010, 98, 1503-1511.	0.2	64
12	Mechanism of uncoupling protein action. Biochemical Society Transactions, 2001, 29, 803-806.	1.6	63
13	Fatty Acid-Stimulated Insulin Secretion vs. Lipotoxicity. Molecules, 2018, 23, 1483.	1.7	60
14	Mitochondrial reactive oxygen species: which ROS signals cardioprotection?. American Journal of Physiology - Heart and Circulatory Physiology, 2013, 305, H960-H968.	1.5	54
15	Glucose-Stimulated Insulin Secretion Fundamentally Requires H2O2 Signaling by NADPH Oxidase 4. Diabetes, 2020, 69, 1341-1354.	0.3	53
16	The nucleotide regulatory sites on the mitochondrial KATP channel face the cytosol1The experimental work was in partial fulfillment of requirements for the Ph.D. degree for Vladimir Yarov-Yarovoy and Martin JabÅ¯rek..1. Biochimica Et Biophysica Acta - Bioenergetics, 1997, 1321, 128-136.	0.5	50
17	Contribution of Oxidative Stress and Impaired Biogenesis of Pancreatic Î²-Cells to Type 2 Diabetes. Antioxidants and Redox Signaling, 2019, 31, 722-751.	2.5	50
18	Kinetics and ion specificity of Na+/Ca2+ exchange mediated by the reconstituted beef heart mitochondrial Na+/Ca2+ antiporter. Biochimica Et Biophysica Acta - Bioenergetics, 2004, 1659, 83-91.	0.5	48

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19	H₂O₂-Activated Mitochondrial Phospholipase iPLA₂Î³ Prevents Lipotoxic Oxidative Stress in Synergy with UCP2, Amplifies SignalingviaG-Proteinâ€“Coupled Receptor GPR40, and Regulates Insulin Secretion in Pancreatic Î²-Cells. Antioxidants and Redox Signaling, 2015, 23, 958-972.	2.5	45
20	Distribution of mitochondrial nucleoids upon mitochondrial network fragmentation and network reintegration in HEPG2 cells. International Journal of Biochemistry and Cell Biology, 2013, 45, 593-603.	1.2	39
21	Alkylsulfonates as Probes of Uncoupling Protein Transport Mechanism. Journal of Biological Chemistry, 2001, 276, 31897-31905.	1.6	38
22	A new automated technique for the reconstitution of hydrophobic proteins into planar bilayer membranes. Studies of human recombinant uncoupling protein 1. Biochimica Et Biophysica Acta - Bioenergetics, 2006, 1757, 474-479.	0.5	37
23	Fatty Acids are Key in 4-Hydroxy-2-Nonenal-Mediated Activation of Uncoupling Proteins 1 and 2. PLoS ONE, 2013, 8, e77786.	1.1	36
24	Antioxidant activity by a synergy of redox-sensitive mitochondrial phospholipase A2 and uncoupling protein-2 in lung and spleen. International Journal of Biochemistry and Cell Biology, 2013, 45, 816-825.	1.2	35
25	Uncoupling mechanism and redox regulation of mitochondrial uncoupling protein 1 (UCP1). Biochimica Et Biophysica Acta - Bioenergetics, 2019, 1860, 259-269.	0.5	35
26	Mitochondrial phospholipase A2 activated by reactive oxygen species in heart mitochondria induces mild uncoupling. Physiological Research, 2010, 59, 737-747.	0.4	35
27	Dehydrosilybin attenuates the production of ROS in rat cardiomyocyte mitochondria with an uncoupler-like mechanism. Journal of Bioenergetics and Biomembranes, 2010, 42, 499-509.	1.0	27
28	Antioxidant and Regulatory Role of Mitochondrial Uncoupling Protein UCP2 in Pancreatic Î²-cells. Physiological Research, 2014, 63, S73-S91.	0.4	26
29	Silymarin Component 2,3-dehydrosilybin Attenuates Cardiomyocyte Damage Following Hypoxia/Reoxygenation by Limiting Oxidative Stress. Physiological Research, 2015, 64, 79-91.	0.4	21
30	Mitochondrial nucleoid clusters protect newly synthesized mtDNA during Doxorubicin- and Ethidium Bromide-induced mitochondrial stress. Toxicology and Applied Pharmacology, 2016, 302, 31-40.	1.3	18
31	The Pancreatic Î²-Cell: The Perfect Redox System. Antioxidants, 2021, 10, 197.	2.2	16
32	Channel character of uncoupling proteinâ€mediated transport. FEBS Letters, 2010, 584, 2135-2141.	1.3	15
33	Antioxidant Synergy of Mitochondrial Phospholipase PNPLA8/iPLA2Î³ with Fatty Acidâ€“Conducting SLC25 Gene Family Transporters. Antioxidants, 2021, 10, 678.	2.2	13
34	Distribution of mitochondrial DNA nucleoids inside the linear tubules vs. bulk parts of mitochondrial network as visualized by 4Pi microscopy. Journal of Bioenergetics and Biomembranes, 2015, 47, 255-263.	1.0	12
35	Undecanesulfonate does not allosterically activate H+ uniport mediated by uncoupling protein-1 in brown adipose tissue mitochondria. International Journal of Biochemistry and Cell Biology, 2006, 38, 1965-1974.	1.2	11
36	Contribution of Mitochondria to Insulin Secretion by Various Secretagogues. Antioxidants and Redox Signaling, 2022, 36, 920-952.	2.5	10

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37	Import of desired nucleic acid sequences using addressing motif of mitochondrial ribosomal 5S-rRNA for fluorescent in vivo hybridization of mitochondrial DNA and RNA. Journal of Bioenergetics and Biomembranes, 2014, 46, 147-156.	1.0	9
38	Cytoprotective activity of mitochondrial uncoupling proteinâ€2 in lung and spleen. FEBS Open Bio, 2018, 8, 692-701.	1.0	6
39	Antioxidant Role and Cardiolipin Remodeling by Redox-Activated Mitochondrial Ca2+-Independent Phospholipase A2Î³ in the Brain. Antioxidants, 2022, 11, 198.	2.2	6
40	Effect of flavonolignans derived from silybin on mitochondrial production of reactive oxygen species. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 60.	0.5	1
41	Cardioprotective activity of dehydrosilybin is linked to its uncoupler-like behavior. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 87.	0.5	1
42	Antioxidant activity of calcium-independent phospholipase A2Î³ in brain mitochondria. Free Radical Biology and Medicine, 2018, 128, S86.	1.3	1
43	S10.20 Mitochondrial phospholipase iPLA2-dependent regulation of uncoupling protein UCP2. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, S62-S63.	0.5	0
44	Silybin Derivatives Modulate Thyroid Hormone-Mediated UcP2 Expression in Neonatal Rat Cardiomyocytes. Biophysical Journal, 2010, 98, 736a-737a.	0.2	0
45	Mitochondrial calciumâ€independent phospholipase iPLA2Î³ is directly activated by H2O2 in vitro. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, S84-S85.	0.5	0
46	Quercetin Affects Respiratory Parameters in Whole H9c2 Cells by ANT-Dependent Uncoupling. Biophysical Journal, 2015, 108, 311a.	0.2	0
47	Kinetic Properties and Redox Regulation of Recombinant Calcium-Independent Phospholipase A2Î³ Reconstituted In Liposomes. Biophysical Journal, 2016, 110, 142a.	0.2	0
48	Nitrolinoleic acid and nitric oxide inhibit purified recombinant calcium-independent phospholipase A2Î³. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, e78.	0.5	0
49	Mitochondrial Redox Signaling and Cristae Morphology Changes Upon 2-Keto-Isocaproate and Fatty Acid-Stimulated Insulin Secretion. Biophysical Journal, 2020, 118, 450a.	0.2	0
50	Redox Signaling is Essential for Insulin Secretion. , 0, , .		0
51	Lectures on Godmanhood. Thought: Fordham University Quarterly, 1945, 20, 176-177.	0.0	0