

Alena Pecinová

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,945
citations

186265

28
h-index

315739

38
g-index

41
all docs

41
docs citations

41
times ranked

3425
citing authors

#	ARTICLE	IF	CITATIONS
1	Regulation of oxidative phosphorylation, the mitochondrial membrane potential, and their role in human disease. <i>Journal of Bioenergetics and Biomembranes</i> , 2008, 40, 445-456.	2.3	204
2	Mitochondrial ATP synthase deficiency due to a mutation in the ATP5E gene for the F1 \hat{A} subunit. <i>Human Molecular Genetics</i> , 2010, 19, 3430-3439.	2.9	133
3	Mitochondrial diseases and genetic defects of ATP synthase. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2006, 1757, 1400-1405.	1.0	116
4	Mitochondrial dysfunction in a neural cell model of spinal muscular atrophy. <i>Journal of Neuroscience Research</i> , 2009, 87, 2748-2756.	2.9	87
5	HIF and reactive oxygen species regulate oxidative phosphorylation in cancer. <i>Carcinogenesis</i> , 2008, 29, 1528-1537.	2.8	84
6	Direct linkage of mitochondrial genome variation to risk factors for type 2 diabetes in conplastic strains. <i>Genome Research</i> , 2007, 17, 1319-1326.	5.5	78
7	Phosphomimetic Substitution of Cytochrome <i>c</i> Tyrosine 48 Decreases Respiration and Binding to Cardiolipin and Abolishes Ability to Trigger Downstream Caspase Activation. <i>Biochemistry</i> , 2010, 49, 6705-6714.	2.5	77
8	A new role for the von Hippel-Lindau tumor suppressor protein: stimulation of mitochondrial oxidative phosphorylation complex biogenesis. <i>Carcinogenesis</i> , 2004, 26, 531-539.	2.8	73
9	High efficiency of ROS production by glycerophosphate dehydrogenase in mammalian mitochondria. <i>Archives of Biochemistry and Biophysics</i> , 2009, 481, 30-36.	3.0	71
10	Mitochondrial Targeting of Metformin Enhances Its Activity against Pancreatic Cancer. <i>Molecular Cancer Therapeutics</i> , 2016, 15, 2875-2886.	4.1	65
11	Cytochrome <i>c</i> oxidase subunit 4 isoform 2 \hat{A} knockout mice show reduced enzyme activity, airway hyporeactivity, and lung pathology. <i>FASEB Journal</i> , 2012, 26, 3916-3930.	0.5	62
12	Evaluation of basic mitochondrial functions using rat tissue homogenates. <i>Mitochondrion</i> , 2011, 11, 722-728.	3.4	61
13	Diminished synthesis of subunit a (ATP6) and altered function of ATP synthase and cytochrome c oxidase due to the mtDNA 2 bp microdeletion of TA at positions 9205 and 9206. <i>Biochemical Journal</i> , 2004, 383, 561-571.	3.7	59
14	ROS production in brown adipose tissue mitochondria: The question of UCP1-dependence. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 2017-2030.	1.0	51
15	Mitochondrial complex I inhibition in cerebral cortex of immature rats following homocysteic acid-induced seizures. <i>Experimental Neurology</i> , 2007, 204, 597-609.	4.1	48
16	Mitochondrially Targeted \hat{A} -Tocopheryl Succinate Is Antiangiogenic: Potential Benefit Against Tumor Angiogenesis but Caution Against Wound Healing. <i>Antioxidants and Redox Signaling</i> , 2011, 15, 2923-2935.	5.4	48
17	Cytochrome c Oxidase Subunit 4 Isoform Exchange Results in Modulation of Oxygen Affinity. <i>Cells</i> , 2020, 9, 443.	4.1	48
18	A suggested role for mitochondria in Noonan syndrome. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2010, 1802, 275-283.	3.8	47

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19	Functional alteration of cytochrome c oxidase by SURF1 mutations in Leigh syndrome. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2003, 1639, 53-63.	3.8	45
20	Evaluation of mitochondrial membrane potential using a computerized device with a tetraphenylphosphonium-selective electrode. <i>Analytical Biochemistry</i> , 2006, 353, 37-42.	2.4	44
21	Chapter 11 Isolation of Regulatory-Competent, Phosphorylated Cytochrome c Oxidase. <i>Methods in Enzymology</i> , 2009, 457, 193-210.	1.0	41
22	Mice deleted for heart-type cytochrome c oxidase subunit 7a1 develop dilated cardiomyopathy. <i>Mitochondrion</i> , 2012, 12, 294-304.	3.4	37
23	Mitochondrial diseases and ATPase defects of nuclear origin. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2004, 1658, 115-121.	1.0	35
24	Respiratory chain components involved in the glycerophosphate dehydrogenase-dependent ROS production by brown adipose tissue mitochondria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2007, 1767, 989-997.	1.0	35
25	Two components in pathogenic mechanism of mitochondrial ATPase deficiency: Energy deprivation and ROS production. <i>Experimental Gerontology</i> , 2006, 41, 683-687.	2.8	34
26	Inhibition of cytochrome c oxidase subunit 4 precursor processing by the hypoxia mimic cobalt chloride. <i>Biochemical and Biophysical Research Communications</i> , 2006, 344, 1086-1093.	2.1	33
27	Pharmacological inhibition of fatty-acid oxidation synergistically enhances the effect of l-asparaginase in childhood ALL cells. <i>Leukemia</i> , 2016, 30, 209-218.	7.2	31
28	GUG is an efficient initiation codon to translate the human mitochondrial ATP6 gene. <i>Biochemical and Biophysical Research Communications</i> , 2004, 313, 687-693.	2.1	29
29	Flow-cytometric monitoring of mitochondrial depolarisation: from fluorescence intensities to millivolts. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2005, 78, 99-108.	3.8	28
30	Mitochondrial targets of metformin—Are they physiologically relevant?. <i>BioFactors</i> , 2019, 45, 703-711.	5.4	23
31	POLRMT mutations impair mitochondrial transcription causing neurological disease. <i>Nature Communications</i> , 2021, 12, 1135.	12.8	21
32	Noninvasive diagnostics of mitochondrial disorders in isolated lymphocytes with high resolution respirometry. <i>BBA Clinical</i> , 2014, 2, 62-71.	4.1	19
33	Role of Mitochondrial Glycerol-3-Phosphate Dehydrogenase in Metabolic Adaptations of Prostate Cancer. <i>Cells</i> , 2020, 9, 1764.	4.1	18
34	Pleiotropic Effects of Biguanides on Mitochondrial Reactive Oxygen Species Production. <i>Oxidative Medicine and Cellular Longevity</i> , 2017, 2017, 1-11.	4.0	17
35	Mitochondrial Membrane Potential and ATP Production in Primary Disorders of ATP Synthase. <i>Toxicology Mechanisms and Methods</i> , 2004, 14, 7-11.	2.7	16
36	Mitochondrial respiration supports autophagy to provide stress resistance during quiescence. <i>Autophagy</i> , 2022, 18, 2409-2426.	9.1	13

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37	Biochemical thresholds for pathological presentation of ATP synthase deficiencies. <i>Biochemical and Biophysical Research Communications</i> , 2020, 521, 1036-1041.	2.1	12
38	Genetic Complementation of ATP Synthase Deficiency Due to Dysfunction of TMEM70 Assembly Factor in Rat. <i>Biomedicines</i> , 2022, 10, 276.	3.2	2