

Tomas Mracek

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

1,939
citations

331670

21
h-index

265206

42
g-index

59
all docs

59
docs citations

59
times ranked

3813
citing authors

#	ARTICLE	IF	CITATIONS
1	The function and the role of the mitochondrial glycerol-3-phosphate dehydrogenase in mammalian tissues. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2013, 1827, 401-410.	1.0	302
2	Myocardial iron content and mitochondrial function in human heart failure: a direct tissue analysis. <i>European Journal of Heart Failure</i> , 2017, 19, 522-530.	7.1	180
3	Identification of Macrophage Inhibitory Cytokine-1 in Adipose Tissue and Its Secretion as an Adipokine by Human Adipocytes. <i>Endocrinology</i> , 2009, 150, 1688-1696.	2.8	161
4	Mitochondrial diseases and genetic defects of ATP synthase. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2006, 1757, 1400-1405.	1.0	116
5	Glycerophosphate-dependent hydrogen peroxide production by brown adipose tissue mitochondria and its activation by ferricyanide. <i>Journal of Bioenergetics and Biomembranes</i> , 2002, 34, 105-113.	2.3	95
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	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
8	ROS generation and multiple forms of mammalian mitochondrial glycerol-3-phosphate dehydrogenase. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 98-111.	1.0	55
9	Acadian variant of Fanconi syndrome is caused by mitochondrial respiratory chain complex I deficiency due to a non-coding mutation in complex I assembly factor NDUF6. <i>Human Molecular Genetics</i> , 2016, 25, 4062-4079.	2.9	55
10	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
11	Cytochrome c Oxidase Subunit 4 Isoform Exchange Results in Modulation of Oxygen Affinity. <i>Cells</i> , 2020, 9, 443.	4.1	48
12	Ubiquinone-binding site mutagenesis reveals the role of mitochondrial complex II in cell death initiation. <i>Cell Death and Disease</i> , 2015, 6, e1749-e1749.	6.3	47
13	Wars2 is a determinant of angiogenesis. <i>Nature Communications</i> , 2016, 7, 12061.	12.8	45
14	Mitochondrial diseases and ATPase defects of nuclear origin. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2004, 1658, 115-121.	1.0	35
15	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
16	Caloric restriction increases adiponectin expression by adipose tissue and prevents the inhibitory effect of insulin on circulating adiponectin in rats. <i>Journal of Nutritional Biochemistry</i> , 2012, 23, 867-874.	4.2	35
17	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
18	IL-1 and LPS but not IL-6 inhibit differentiation and downregulate PPAR gamma in brown adipocytes. <i>Cytokine</i> , 2004, 26, 9-15.	3.2	31

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19	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
20	Mitochondrial ATP synthasome: Expression and structural interaction of its components. <i>Biochemical and Biophysical Research Communications</i> , 2015, 464, 787-793.	2.1	27
21	Mitochondrial targets of metformin – Are they physiologically relevant?. <i>BioFactors</i> , 2019, 45, 703-711.	5.4	23
22	The adipokine zinc-α ₂ -glycoprotein activates AMP kinase in human primary skeletal muscle cells. <i>Archives of Physiology and Biochemistry</i> , 2011, 117, 88-93.	2.1	21
23	Tissue- and species-specific differences in cytochrome c oxidase assembly induced by SURF1 defects. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2016, 1862, 705-715.	3.8	21
24	Knockout of Tmem70 alters biogenesis of ATP synthase and leads to embryonal lethality in mice. <i>Human Molecular Genetics</i> , 2016, 25, ddw295.	2.9	21
25	POLRMT mutations impair mitochondrial transcription causing neurological disease. <i>Nature Communications</i> , 2021, 12, 1135.	12.8	21
26	Loss of COX4I1 Leads to Combined Respiratory Chain Deficiency and Impaired Mitochondrial Protein Synthesis. <i>Cells</i> , 2021, 10, 369.	4.1	21
27	Mutant Wars2 Gene in Spontaneously Hypertensive Rats Impairs Brown Adipose Tissue Function and Predisposes to Visceral Obesity. <i>Physiological Research</i> , 2017, 66, 917-924.	0.9	21
28	Role of cytochrome c oxidase nuclear-encoded subunits in health and disease. <i>Physiological Research</i> , 2020, 69, 947-965.	0.9	20
29	Noninvasive diagnostics of mitochondrial disorders in isolated lymphocytes with high resolution respirometry. <i>BBA Clinical</i> , 2014, 2, 62-71.	4.1	19
30	TMEM70 facilitates biogenesis of mammalian ATP synthase by promoting subunit c incorporation into the rotor structure of the enzyme. <i>FASEB Journal</i> , 2019, 33, 14103-14117.	0.5	18
31	Role of Mitochondrial Glycerol-3-Phosphate Dehydrogenase in Metabolic Adaptations of Prostate Cancer. <i>Cells</i> , 2020, 9, 1764.	4.1	18
32	Metabolic profile of leukemia cells influences treatment efficacy of L-asparaginase. <i>BMC Cancer</i> , 2020, 20, 526.	2.6	18
33	Pleiotropic Effects of Biguanides on Mitochondrial Reactive Oxygen Species Production. <i>Oxidative Medicine and Cellular Longevity</i> , 2017, 2017, 1-11.	4.0	17
34	Alteration of structure and function of ATP synthase and cytochrome c oxidase by lack of Fo-a and Cox3 subunits caused by mitochondrial DNA 9205delTA mutation. <i>Biochemical Journal</i> , 2015, 466, 601-611.	3.7	16
35	Role of the mitochondrial ATP synthase central stalk subunits $\hat{1}^3$ and $\hat{1}^4$ in the activity and assembly of the mammalian enzyme. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018, 1859, 374-381.	1.0	16
36	Mitochondrial membrane assembly of TMEM70 protein. <i>Mitochondrion</i> , 2014, 15, 1-9.	3.4	15

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37	Assessment of self-rated health: The relative importance of physiological, mental, and socioeconomic factors. <i>PLoS ONE</i> , 2022, 17, e0267115.	2.5	15
38	Mitochondrial respiration supports autophagy to provide stress resistance during quiescence. <i>Autophagy</i> , 2022, 18, 2409-2426.	9.1	13
39	Zinc- β 2-glycoprotein: A proliferative factor for breast cancer? In vitro study and molecular mechanisms. <i>Oncology Reports</i> , 2013, 29, 2025-2029.	2.6	12
40	Biochemical thresholds for pathological presentation of ATP synthase deficiencies. <i>Biochemical and Biophysical Research Communications</i> , 2020, 521, 1036-1041.	2.1	12
41	High Molecular Weight Forms of Mammalian Respiratory Chain Complex II. <i>PLoS ONE</i> , 2013, 8, e71869.	2.5	12
42	Omega-3 index in the Czech Republic: No difference between urban and rural populations. <i>Chemistry and Physics of Lipids</i> , 2019, 220, 23-27.	3.2	9
43	Gender-Related Effects on Substrate Utilization and Metabolic Adaptation in Hairless Spontaneously Hypertensive Rat. <i>Physiological Research</i> , 2015, 64, 51-60.	0.9	6
44	Sulforaphane Ameliorates Metabolic Changes Associated With Status Epilepticus in Immature Rats. <i>Frontiers in Cellular Neuroscience</i> , 2022, 16, 855161.	3.7	5
45	Autocrine effects of transgenic resistin reduce palmitate and glucose oxidation in brown adipose tissue. <i>Physiological Genomics</i> , 2016, 48, 420-427.	2.3	4
46	L-Asparaginase More Effectively Targets Leukemic Cells with Low Glycolytic Activity. <i>Blood</i> , 2015, 126, 1285-1285.	1.4	3
47	Current progress in the therapeutic options for mitochondrial disorders. <i>Physiological Research</i> , 2020, 69, 967-994.	0.9	3
48	Genetic Complementation of ATP Synthase Deficiency Due to Dysfunction of TMEM70 Assembly Factor in Rat. <i>Biomedicines</i> , 2022, 10, 276.	3.2	2
49	Reactive oxygen species production by flavin dehydrogenases of the mitochondrial respiratory chain. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, S100-S101.	1.0	1
50	Data on cytochrome c oxidase assembly in mice and human fibroblasts or tissues induced by SURF1 defect. <i>Data in Brief</i> , 2016, 7, 1004-1009.	1.0	1
51	Autocrine effects of transgenic resistin on brown adipose tissue glucose and lipid metabolism. <i>Atherosclerosis</i> , 2017, 263, e71.	0.8	1
52	L-Asparaginase Causes Metabolic Reprogramming in ALL Cells. <i>Blood</i> , 2014, 124, 922-922.	1.4	1
53	The Effect of Diabetes Mellitus on Cardiac Mitochondria in Patients With End-Stage Heart Failure. <i>Journal of Heart and Lung Transplantation</i> , 2015, 34, S90.	0.6	0
54	Abstract 11240: Capillary Rarefaction and Right Ventricular Dysfunction in Advanced HFrEF: Human Tissue Histomorphometry Analysis. <i>Circulation</i> , 2021, 144, .	1.6	0