Tomas Spacek

List of Publications by Year
in descending order

26 papers	501 citations	687220 13 h-index	794469 19 g-index
32 all docs	32 docs citations	32 times ranked	733 citing authors

#	Article	IF	Citations
1	Selective Disruption of Respiratory Supercomplexes as a New Strategy to Suppress Her2^{high} Breast Cancer. Antioxidants and Redox Signaling, 2017, 26, 84-103.	2.5	93
2	4Pi microscopy reveals an impaired three-dimensional mitochondrial network of pancreatic islet Î²-cells, an experimental model of type-2 diabetes. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 1327-1341.	0.5	55
3	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
4	3D super-resolution microscopy reflects mitochondrial cristae alternations and mtDNA nucleoid size and distribution. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 829-844.	0.5	37
5	Hypoxic HepG2 cell adaptation decreases ATP synthase dimers and ATP production in inflated cristae by mitofilin downâ€regulation concomitant to MICOS clustering. FASEB Journal, 2016, 30, 1941-1957.	0.2	35
6	Mitochondrial cristae narrowing upon higher 2-oxoglutarate load. Biochimica Et Biophysica Acta - Bioenergetics, 2019, 1860, 659-678.	0.5	31
7	Glucose-stimulated insulin secretion of insulinoma INS-1E cells is associated with elevation of both respiration and mitochondrial membrane potential. International Journal of Biochemistry and Cell Biology, 2008, 40, 1522-1535.	1.2	26
8	Antioxidant and Regulatory Role of Mitochondrial Uncoupling Protein UCP2 in Pancreatic Î²-cells. Physiological Research, 2014, 63, S73-S91.	0.4	26
9	Mitochondrial Superoxide Production Decreases on Glucose-Stimulated Insulin Secretion in Pancreatic Î² Cells Due to Decreasing Mitochondrial Matrix NADH/NAD⁺Ratio. Antioxidants and Redox Signaling, 2020, 33, 789-815.	2.5	25
10	Delaunay algorithm and principal component analysis for 3D visualization of mitochondrial DNA nucleoids by Biplane FPALM/dSTORM. European Biophysics Journal, 2016, 45, 443-461.	1.2	21
11	Recruitment of mitochondrial uncoupling protein UCP2 after lipopolysaccharide induction. International Journal of Biochemistry and Cell Biology, 2005, 37, 809-821.	1.2	19
12	Certain aspects of uncoupling due to mitochondrial uncoupling proteins in vitro and in vivo. Biochimica Et Biophysica Acta - Bioenergetics, 2006, 1757, 467-473.	0.5	18
13	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
14	Assessment of Mitochondrial DNA as an Indicator of Islet Quality: An Example in Goto Kakizaki Rats. Transplantation Proceedings, 2011, 43, 3281-3284.	0.3	14
15	Nkx6.1 decline accompanies mitochondrial DNA reduction but subtle nucleoid size decrease in pancreatic islet Î²-cells of diabetic Goto Kakizaki rats. Scientific Reports, 2017, 7, 15674.	1.6	12
16	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
17	In Vitro Assessment of Pancreatic Islet Vitality by Oxymetry. Transplantation Proceedings, 2005, 37, 3454-3456.	0.3	10
18	Mitochondrial Nucleoids: Superresolution microscopy analysis. International Journal of Biochemistry and Cell Biology, 2019, 106, 21-25.	1.2	10

#	Article	IF	Citations
19	Fatty acid binding site of mitochondrial uncoupling protein UCP2 as probed by EPR spectroscopy of spin-labeled fatty acids. Applied Magnetic Resonance, 2006, 30, 373-383.	0.6	1
20	3D Visualization of Mitochondrial Network and Nucleoids of mtDNA in Ins1E and HepG2 Cells at 30 Nm Resolution by Biplane FPALM Microscopy. Biophysical Journal, 2011, 100, 618a.	0.2	0
21	Oxidative Stress Plays a Major Role in Mitochondrial Nucleoid Clustering. Free Radical Biology and Medicine, 2011, 51, S75-S76.	1.3	0
22	Visualization of mt nucleoids by superresolution microscopy techniques. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, S154-S155.	0.5	0
23	Mitochondrial DNA Nucleoid Redistribution after Mitochondrial Network Fragmentation as Visualized by 3D Super-Resolution Biplane Fpalm Microscopy. Biophysical Journal, 2013, 104, 657a.	0.2	0
24	Mitochondrial DNA Nucleoid Distribution at Simulated Pathologies as Visualized by 3D Super-Resolution Biplane FPALM / dSTORM Microscopy. Biophysical Journal, 2014, 106, 203a.	0.2	0
25	Division of Mitochondrial Nucleoids Visualized by Biplane FPALM/dSTORM. Biophysical Journal, 2016, 110, 472a.	0.2	0
26	Superoxide Generation, Bioenergetics Parameters, and Mitochondrial Morphology in Insulinoma INS-1E Cells upon Glucose Addition and ATPase Inhibitory Factor (IF1) Knockdown. Free Radical Biology and Medicine, 2017, 112, 150.	1.3	0