

# Tomas Spacek

## List of Publications by Year in descending order

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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	Mitochondrial Superoxide Production Decreases on Glucose-Stimulated Insulin Secretion in Pancreatic $\beta$ Cells Due to Decreasing Mitochondrial Matrix NADH/NAD <sup>+</sup> Ratio. <i>Antioxidants and Redox Signaling</i> , 2020, 33, 789-815.	2.5	25
2	Mitochondrial cristae narrowing upon higher 2-oxoglutarate load. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2019, 1860, 659-678.	0.5	31
3	Mitochondrial Nucleoids: Superresolution microscopy analysis. <i>International Journal of Biochemistry and Cell Biology</i> , 2019, 106, 21-25.	1.2	10
4	3D super-resolution microscopy reflects mitochondrial cristae alternations and mtDNA nucleoid size and distribution. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018, 1859, 829-844.	0.5	37
5	Selective Disruption of Respiratory Supercomplexes as a New Strategy to Suppress Her2 <sup>high</sup> Breast Cancer. <i>Antioxidants and Redox Signaling</i> , 2017, 26, 84-103.	2.5	93
6	Nix6.1 decline accompanies mitochondrial DNA reduction but subtle nucleoid size decrease in pancreatic islet $\beta$ -cells of diabetic Goto Kakizaki rats. <i>Scientific Reports</i> , 2017, 7, 15674.	1.6	12
7	Superoxide Generation, Bioenergetics Parameters, and Mitochondrial Morphology in Insulinoma INS-1E Cells upon Glucose Addition and ATPase Inhibitory Factor (IF1) Knockdown. <i>Free Radical Biology and Medicine</i> , 2017, 112, 150.	1.3	0
8	Division of Mitochondrial Nucleoids Visualized by Biplane FPALM/dSTORM. <i>Biophysical Journal</i> , 2016, 110, 472a.	0.2	0
9	Mitochondrial nucleoid clusters protect newly synthesized mtDNA during Doxorubicin- and Ethidium Bromide-induced mitochondrial stress. <i>Toxicology and Applied Pharmacology</i> , 2016, 302, 31-40.	1.3	18
10	Delaunay algorithm and principal component analysis for 3D visualization of mitochondrial DNA nucleoids by Biplane FPALM/dSTORM. <i>European Biophysics Journal</i> , 2016, 45, 443-461.	1.2	21
11	Hypoxic HepG2 cell adaptation decreases ATP synthase dimers and ATP production in inflated cristae by mitofilin downregulation concomitant to MICOS clustering. <i>FASEB Journal</i> , 2016, 30, 1941-1957.	0.2	35
12	Mitochondrial DNA Nucleoid Distribution at Simulated Pathologies as Visualized by 3D Super-Resolution Biplane FPALM / dSTORM Microscopy. <i>Biophysical Journal</i> , 2014, 106, 203a.	0.2	0
13	Antioxidant and Regulatory Role of Mitochondrial Uncoupling Protein UCP2 in Pancreatic $\beta$ -cells. <i>Physiological Research</i> , 2014, 63, S73-S91.	0.4	26
14	Distribution of mitochondrial nucleoids upon mitochondrial network fragmentation and network reintegration in HEPG2 cells. <i>International Journal of Biochemistry and Cell Biology</i> , 2013, 45, 593-603.	1.2	39
15	Mitochondrial DNA Nucleoid Redistribution after Mitochondrial Network Fragmentation as Visualized by 3D Super-Resolution Biplane Fpalm Microscopy. <i>Biophysical Journal</i> , 2013, 104, 657a.	0.2	0
16	Visualization of mt nucleoids by superresolution microscopy techniques. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, S154-S155.	0.5	0
17	3D Visualization of Mitochondrial Network and Nucleoids of mtDNA in Ins1E and HepG2 Cells at 30 Nm Resolution by Biplane FPALM Microscopy. <i>Biophysical Journal</i> , 2011, 100, 618a.	0.2	0
18	Assessment of Mitochondrial DNA as an Indicator of Islet Quality: An Example in Goto Kakizaki Rats. <i>Transplantation Proceedings</i> , 2011, 43, 3281-3284.	0.3	14

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19	Oxidative Stress Plays a Major Role in Mitochondrial Nucleoid Clustering. <i>Free Radical Biology and Medicine</i> , 2011, 51, S75-S76.	1.3	0
20	4Pi microscopy reveals an impaired three-dimensional mitochondrial network of pancreatic islet $\beta^2$ -cells, an experimental model of type-2 diabetes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 1327-1341.	0.5	55
21	Glucose-stimulated insulin secretion of insulinoma INS-1E cells is associated with elevation of both respiration and mitochondrial membrane potential. <i>International Journal of Biochemistry and Cell Biology</i> , 2008, 40, 1522-1535.	1.2	26
22	Certain aspects of uncoupling due to mitochondrial uncoupling proteins in vitro and in vivo. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2006, 1757, 467-473.	0.5	18
23	Undecanesulfonate does not allosterically activate H <sup>+</sup> uniport mediated by uncoupling protein-1 in brown adipose tissue mitochondria. <i>International Journal of Biochemistry and Cell Biology</i> , 2006, 38, 1965-1974.	1.2	11
24	Fatty acid binding site of mitochondrial uncoupling protein UCP2 as probed by EPR spectroscopy of spin-labeled fatty acids. <i>Applied Magnetic Resonance</i> , 2006, 30, 373-383.	0.6	1
25	Recruitment of mitochondrial uncoupling protein UCP2 after lipopolysaccharide induction. <i>International Journal of Biochemistry and Cell Biology</i> , 2005, 37, 809-821.	1.2	19
26	In Vitro Assessment of Pancreatic Islet Vitality by Oxymetry. <i>Transplantation Proceedings</i> , 2005, 37, 3454-3456.	0.3	10