

Roza Kucharczyk

List of Publications by Year in descending order

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54
papers

5,781
citations

201674

27
h-index

161849

54
g-index

60
all docs

60
docs citations

60
times ranked

12361
citing authors

#	ARTICLE	IF	CITATIONS
1	Assembly-dependent translation of subunits <i>atp6</i> and <i>atp9</i> of ATP synthase in yeast mitochondria. <i>Genetics</i> , 2022, 220, .	2.9	5
2	The pathogenic m.8993A>G mutation in mitochondrial <i>ATP6</i> gene prevents proton release from the subunit <i>c</i> -ring rotor of ATP synthase. <i>Human Molecular Genetics</i> , 2021, 30, 381-392.	2.9	8
3	5,6-diiodo-1H-benzotriazole: new TBBt analogue that minutely affects mitochondrial activity. <i>Scientific Reports</i> , 2021, 11, 23701.	3.3	2
4	The Unique Cysteine of F-ATP Synthase OSCP Subunit Participates in Modulation of the Permeability Transition Pore. <i>Cell Reports</i> , 2020, 32, 108095.	6.4	35
5	Case Report: Identification of a Novel Variant (m.8909T>C) of Human Mitochondrial ATP6 Gene and Its Functional Consequences on Yeast ATP Synthase. <i>Life</i> , 2020, 10, 215.	2.4	7
6	Molecular Basis of the Pathogenic Mechanism Induced by the m.9191T>C Mutation in Mitochondrial ATP6 Gene. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5083.	4.1	12
7	ATP Synthase Subunit <i>a</i> Supports Permeability Transition in Yeast Lacking Dimerization Subunits and Modulates γ PTP Conductance. <i>Cellular Physiology and Biochemistry</i> , 2020, 54, 211-229.	1.6	9
8	Assigning mitochondrial localization of dual localized proteins using a yeast Bi-Genomic Mitochondrial-Split-GFP. <i>ELife</i> , 2020, 9, .	6.0	20
9	Deregulating mitochondrial metabolite and ion transport has beneficial effects in yeast and human cellular models for NARP syndrome. <i>Human Molecular Genetics</i> , 2019, 28, 3792-3804.	2.9	12
10	Functional investigation of an universally conserved leucine residue in subunit <i>a</i> of ATP synthase targeted by the pathogenic m.9176A>T mutation. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2019, 1860, 52-59.	1.0	8
11	The pathogenic MT-ATP6 m.8851T>C mutation prevents proton movements within the n-side hydrophilic cleft of the membrane domain of ATP synthase. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2019, 1860, 562-572.	1.0	12
12	Perturbation of the yeast mitochondrial lipidome and associated membrane proteins following heterologous expression of <i>Artemia</i> -ANT. <i>Scientific Reports</i> , 2018, 8, 5915.	3.3	3
13	Two mutations in mitochondrial ATP6 gene of ATP synthase, related to human cancer, affect ROS, calcium homeostasis and mitochondrial permeability transition in yeast. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2018, 1865, 117-131.	4.1	36
14	High-Conductance Channel Formation in Yeast Mitochondria is Mediated by F-ATP Synthase <i>e</i> and <i>g</i> Subunits. <i>Cellular Physiology and Biochemistry</i> , 2018, 50, 1840-1855.	1.6	57
15	Protein AMPylation by an Evolutionarily Conserved Pseudokinase. <i>Cell</i> , 2018, 175, 809-821.e19.	28.9	149
16	Ancestral State Reconstruction of the Apoptosis Machinery in the Common Ancestor of Eukaryotes. <i>G3: Genes, Genomes, Genetics</i> , 2018, 8, 2121-2134.	1.8	32
17	Molecular basis of diseases caused by the mtDNA mutation m.8969G>A in the subunit <i>a</i> of ATP synthase. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018, 1859, 602-611.	1.0	19
18	ATP Synthase Diseases of Mitochondrial Genetic Origin. <i>Frontiers in Physiology</i> , 2018, 9, 329.	2.8	88

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19	Decreasing cytosolic translation is beneficial to yeast and human Tafazzin-deficient cells. <i>Microbial Cell</i> , 2018, 5, 220-232.	3.2	13
20	Regulation of Aerobic Energy Metabolism in <i>Podospora anserina</i> by Two Paralogous Genes Encoding Structurally Different c-Subunits of ATP Synthase. <i>PLoS Genetics</i> , 2016, 12, e1006161.	3.5	6
21	Revisiting Mitochondrial pH with an Improved Algorithm for Calibration of the Ratiometric 5(6)-carboxy-SNARF-1 Probe Reveals Anticooperative Reaction with H ⁺ Ions and Warrants Further Studies of Organellar pH. <i>PLoS ONE</i> , 2016, 11, e0161353.	2.5	18
22	Identification of G8969>A in mitochondrial ATP6 gene that severely compromises ATP synthase function in a patient with IgA nephropathy. <i>Scientific Reports</i> , 2016, 6, 36313.	3.3	28
23	Yeast models of mutations in the mitochondrial ATP6 gene found in human cancer cells. <i>Mitochondrion</i> , 2016, 29, 7-17.	3.4	14
24	Biallelic PPA2 Mutations Cause Sudden Unexpected Cardiac Arrest in Infancy. <i>American Journal of Human Genetics</i> , 2016, 99, 666-673.	6.2	39
25	Yeast as a system for modeling mitochondrial disease mechanisms and discovering therapies. <i>DMM Disease Models and Mechanisms</i> , 2015, 8, 509-526.	2.4	115
26	Mitochondrial protein sorting as a therapeutic target for ATP synthase disorders. <i>Nature Communications</i> , 2014, 5, 5585.	12.8	29
27	Expression of Nuclear and Mitochondrial Genes Encoding ATP Synthase Is Synchronized by Disassembly of a Multisynthetase Complex. <i>Molecular Cell</i> , 2014, 56, 763-776.	9.7	43
28	Defining the impact on yeast ATP synthase of two pathogenic human mitochondrial DNA mutations, T9185C and T9191C. <i>Biochimie</i> , 2014, 100, 200-206.	2.6	28
29	The depletion of F ₁ subunit μ in yeast leads to an uncoupled respiratory phenotype that is rescued by mutations in the proton-translocating subunits of F ₀ . <i>Molecular Biology of the Cell</i> , 2014, 25, 791-799.	2.1	10
30	Defining the pathogenesis of human mtDNA mutations using a yeast model: The case of T8851C. <i>International Journal of Biochemistry and Cell Biology</i> , 2013, 45, 130-140.	2.8	22
31	The Suppressor of AAC2 Lethality SAL1 Modulates Sensitivity of Heterologously Expressed Artemia ADP/ATP Carrier to Bongkredate in Yeast. <i>PLoS ONE</i> , 2013, 8, e74187.	2.5	7
32	Experimental Relocation of the Mitochondrial ATP9 Gene to the Nucleus Reveals Forces Underlying Mitochondrial Genome Evolution. <i>PLoS Genetics</i> , 2012, 8, e1002876.	3.5	48
33	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	9.1	3,122
34	Two Nuclear Life Cycle-Regulated Genes Encode Interchangeable Subunits c of Mitochondrial ATP Synthase in <i>Podospora anserina</i> . <i>Molecular Biology and Evolution</i> , 2011, 28, 2063-2075.	8.9	43
35	A Genetic Screen Targeted on the FO Component of Mitochondrial ATP Synthase in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2011, 286, 18181-18189.	3.4	18
36	Energetic requirements and bioenergetic modulation of mitochondrial morphology and dynamics. <i>Seminars in Cell and Developmental Biology</i> , 2010, 21, 558-565.	5.0	87

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37	Mutants of the <i>Saccharomyces cerevisiae</i> VPS genes CCZ1 and YPT7 are blocked in different stages of sporulation. <i>European Journal of Cell Biology</i> , 2010, 89, 780-787.	3.6	17
38	Consequences of the pathogenic T9176C mutation of human mitochondrial DNA on yeast mitochondrial ATP synthase. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 1105-1112.	1.0	54
39	Introducing the human Leigh syndrome mutation T9176C into <i>Saccharomyces cerevisiae</i> mitochondrial DNA leads to severe defects in the incorporation of Atp6p into the ATP synthase and in the mitochondrial morphology. <i>Human Molecular Genetics</i> , 2009, 18, 2889-2898.	2.9	53
40	Mitochondrial ATP synthase disorders: Molecular mechanisms and the quest for curative therapeutic approaches. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2009, 1793, 186-199.	4.1	99
41	Biochemical consequences in yeast of the human mitochondrial DNA 8993T>C mutation in the ATPase6 gene found in NARP/MILS patients. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2009, 1793, 817-824.	4.1	59
42	The <i>Saccharomyces cerevisiae</i> protein Ccz1p interacts with components of the endosomal fusion machinery. <i>FEMS Yeast Research</i> , 2009, 9, 565-573.	2.3	8
43	The Leader Peptide of Yeast Atp6p Is Required for Efficient Interaction with the Atp9p Ring of the Mitochondrial ATPase. <i>Journal of Biological Chemistry</i> , 2007, 282, 36167-36176.	3.4	26
44	Yeast Cells Lacking the Mitochondrial Gene Encoding the ATP Synthase Subunit 6 Exhibit a Selective Loss of Complex IV and Unusual Mitochondrial Morphology. <i>Journal of Biological Chemistry</i> , 2007, 282, 10853-10864.	3.4	106
45	A Yeast Model of the Neurogenic Ataxia Retinitis Pigmentosa (NARP) T8993G Mutation in the Mitochondrial ATP Synthase-6 Gene. <i>Journal of Biological Chemistry</i> , 2007, 282, 34039-34047.	3.4	59
46	The CHiPS Domain - Ancient Traces for the Hermansky-Pudlak Syndrome. <i>Traffic</i> , 2005, 6, 534-538.	2.7	15
47	Increasing Mitochondrial Substrate-level Phosphorylation Can Rescue Respiratory Growth of an ATP Synthase-deficient Yeast. <i>Journal of Biological Chemistry</i> , 2005, 280, 30751-30759.	3.4	51
48	Failure to Assemble the $\hat{1}\hat{3}$ Subcomplex of the ATP Synthase Leads to Accumulation of the $\hat{1}$ and $\hat{2}$ Subunits within Inclusion Bodies and the Loss of Mitochondrial Cristae in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2005, 280, 18386-18392.	3.4	67
49	Multiple functions of the vacuolar sorting protein Ccz1p in <i>Saccharomyces cerevisiae</i> . <i>Biochemical and Biophysical Research Communications</i> , 2005, 329, 197-204.	2.1	13
50	F1-catalysed ATP hydrolysis is required for mitochondrial biogenesis in <i>Saccharomyces cerevisiae</i> growing under conditions where it cannot respire. <i>Molecular Microbiology</i> , 2003, 47, 1329-1339.	2.5	45
51	The two rotor components of yeast mitochondrial ATP synthase are mechanically coupled by subunit \hat{A} . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 13235-13240.	7.1	48
52	The ATP synthase is involved in generating mitochondrial cristae morphology. <i>EMBO Journal</i> , 2002, 21, 221-230.	7.8	686
53	Identification of a Nuclear Gene (FMC1) Required for the Assembly/Stability of Yeast Mitochondrial F1-ATPase in Heat Stress Conditions. <i>Journal of Biological Chemistry</i> , 2001, 276, 6789-6796.	3.4	120
54	The yeast gene YJR025c encodes a 3-hydroxyanthranilic acid dioxygenase and is involved in nicotinic acid biosynthesis. <i>FEBS Letters</i> , 1998, 424, 127-130.	2.8	51