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	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	9.1	3,122
2	The ATP synthase is involved in generating mitochondrial cristae morphology. EMBO Journal, 2002, 21, 221-230.	7.8	686
3	Protein AMPylation by an Evolutionarily Conserved Pseudokinase. Cell, 2018, 175, 809-821.e19.	28.9	149
4	Identification of a Nuclear Gene (FMC1) Required for the Assembly/Stability of Yeast Mitochondrial F1-ATPase in Heat Stress Conditions. Journal of Biological Chemistry, 2001, 276, 6789-6796.	3.4	120
5	Yeast as a system for modeling mitochondrial disease mechanisms and discovering therapies. DMM Disease Models and Mechanisms, 2015, 8, 509-526.	2.4	115
6	Yeast Cells Lacking the Mitochondrial Gene Encoding the ATP Synthase Subunit 6 Exhibit a Selective Loss of Complex IV and Unusual Mitochondrial Morphology. Journal of Biological Chemistry, 2007, 282, 10853-10864.	3.4	106
7	Mitochondrial ATP synthase disorders: Molecular mechanisms and the quest for curative therapeutic approaches. Biochimica Et Biophysica Acta - Molecular Cell Research, 2009, 1793, 186-199.	4.1	99
8	ATP Synthase Diseases of Mitochondrial Genetic Origin. Frontiers in Physiology, 2018, 9, 329.	2.8	88
9	Energetic requirements and bioenergetic modulation of mitochondrial morphology and dynamics. Seminars in Cell and Developmental Biology, 2010, 21, 558-565.	5.0	87
10	Failure to Assemble the Î±3 Î²3 Subcomplex of the ATP Synthase Leads to Accumulation of the Î± and Î² Subunits within Inclusion Bodies and the Loss of Mitochondrial Cristae in Saccharomyces cerevisiae. Journal of Biological Chemistry, 2005, 280, 18386-18392.	3.4	67
11	A Yeast Model of the Neurogenic Ataxia Retinitis Pigmentosa (NARP) T8993G Mutation in the Mitochondrial ATP Synthase-6 Gene. Journal of Biological Chemistry, 2007, 282, 34039-34047.	3.4	59
12	Biochemical consequences in yeast of the human mitochondrial DNA 8993T>C mutation in the ATPase6 gene found in NARP/MILS patients. Biochimica Et Biophysica Acta - Molecular Cell Research, 2009, 1793, 817-824.	4.1	59
13	High-Conductance Channel Formation in Yeast Mitochondria is Mediated by F-ATP Synthase e and g Subunits. Cellular Physiology and Biochemistry, 2018, 50, 1840-1855.	1.6	57
14	Consequences of the pathogenic T9176C mutation of human mitochondrial DNA on yeast mitochondrial ATP synthase. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 1105-1112.	1.0	54
15	Introducing the human Leigh syndrome mutation T9176G into Saccharomyces cerevisiae mitochondrial DNA leads to severe defects in the incorporation of Atp6p into the ATP synthase and in the mitochondrial morphology. Human Molecular Genetics, 2009, 18, 2889-2898.	2.9	53
16	The yeast geneYJR025cencodes a 3-hydroxyanthranilic acid dioxygenase and is involved in nicotinic acid biosynthesis. FEBS Letters, 1998, 424, 127-130.	2.8	51
17	Increasing Mitochondrial Substrate-level Phosphorylation Can Rescue Respiratory Growth of an ATP Synthase-deficient Yeast. Journal of Biological Chemistry, 2005, 280, 30751-30759.	3.4	51
18	The two rotor components of yeast mitochondrial ATP synthase are mechanically coupled by subunit Â. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 13235-13240.	7.1	48

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19	Experimental Relocation of the Mitochondrial ATP9 Gene to the Nucleus Reveals Forces Underlying Mitochondrial Genome Evolution. PLoS Genetics, 2012, 8, e1002876.	3.5	48
20	F1-catalysed ATP hydrolysis is required for mitochondrial biogenesis in Saccharomyces cerevisiae growing under conditions where it cannot respire. Molecular Microbiology, 2003, 47, 1329-1339.	2.5	45
21	Two Nuclear Life Cycle-Regulated Genes Encode Interchangeable Subunits c of Mitochondrial ATP Synthase in Podospora anserina. Molecular Biology and Evolution, 2011, 28, 2063-2075.	8.9	43
22	Expression of Nuclear and Mitochondrial Genes Encoding ATP Synthase Is Synchronized by Disassembly of a Multisynthetase Complex. Molecular Cell, 2014, 56, 763-776.	9.7	43
23	Biallelic PPA2 Mutations Cause Sudden Unexpected Cardiac Arrest in Infancy. American Journal of Human Genetics, 2016, 99, 666-673.	6.2	39
24	Two mutations in mitochondrial ATP6 gene of ATP synthase, related to human cancer, affect ROS, calcium homeostasis and mitochondrial permeability transition in yeast. Biochimica Et Biophysica Acta - Molecular Cell Research, 2018, 1865, 117-131.	4.1	36
25	The Unique Cysteine of F-ATP Synthase OSCP Subunit Participates in Modulation of the Permeability Transition Pore. Cell Reports, 2020, 32, 108095.	6.4	35
26	Ancestral State Reconstruction of the Apoptosis Machinery in the Common Ancestor of Eukaryotes. G3: Genes, Genomes, Genetics, 2018, 8, 2121-2134.	1.8	32
27	Mitochondrial protein sorting as a therapeutic target for ATP synthase disorders. Nature Communications, 2014, 5, 5585.	12.8	29
28	Defining the impact on yeast ATP synthase of two pathogenic human mitochondrial DNA mutations, T9185C and T9191C. Biochimie, 2014, 100, 200-206.	2.6	28
29	Identification of G8969>A in mitochondrial ATP6 gene that severely compromises ATP synthase function in a patient with IgA nephropathy. Scientific Reports, 2016, 6, 36313.	3.3	28
30	The Leader Peptide of Yeast Atp6p Is Required for Efficient Interaction with the Atp9p Ring of the Mitochondrial ATPase. Journal of Biological Chemistry, 2007, 282, 36167-36176.	3.4	26
31	Defining the pathogenesis of human mtDNA mutations using a yeast model: The case of T8851C. International Journal of Biochemistry and Cell Biology, 2013, 45, 130-140.	2.8	22
32	Assigning mitochondrial localization of dual localized proteins using a yeast Bi-Genomic Mitochondrial-Split-GFP. ELife, 2020, 9, .	6.0	20
33	Molecular basis of diseases caused by the mtDNA mutation m.8969G>A in the subunit a of ATP synthase. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 602-611.	1.0	19
34	A Genetic Screen Targeted on the FO Component of Mitochondrial ATP Synthase in Saccharomyces cerevisiae. Journal of Biological Chemistry, 2011, 286, 18181-18189.	3.4	18
35	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. PLoS ONE, 2016, 11, e0161353.	2.5	18
36	Mutants of the Saccharomyces cerevisiae VPS genes CCZ1 and YPT7 are blocked in different stages of sporulation. European Journal of Cell Biology, 2010, 89, 780-787.	3.6	17

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37	The CHiPS Domain - Ancient Traces for the Hermansky-Pudlak Syndrome. Traffic, 2005, 6, 534-538.	2.7	15
38	Yeast models of mutations in the mitochondrial ATP6 gene found in human cancer cells. Mitochondrion, 2016, 29, 7-17.	3.4	14
39	Multiple functions of the vacuolar sorting protein Ccz1p in Saccharomyces cerevisiae. Biochemical and Biophysical Research Communications, 2005, 329, 197-204.	2.1	13
40	Decreasing cytosolic translation is beneficial to yeast and human Tafazzin-deficient cells. Microbial Cell, 2018, 5, 220-232.	3.2	13
41	Deregulating mitochondrial metabolite and ion transport has beneficial effects in yeast and human cellular models for NARP syndrome. Human Molecular Genetics, 2019, 28, 3792-3804.	2.9	12
42	The pathogenic MT-ATP6 m.8851T>C mutation prevents proton movements within the n-side hydrophilic cleft of the membrane domain of ATP synthase. Biochimica Et Biophysica Acta - Bioenergetics, 2019, 1860, 562-572.	1.0	12
43	Molecular Basis of the Pathogenic Mechanism Induced by the m.9191T>C Mutation in Mitochondrial ATP6 Gene. International Journal of Molecular Sciences, 2020, 21, 5083.	4.1	12
44	The depletion of F₁subunit Îµ in yeast leads to an uncoupled respiratory phenotype that is rescued by mutations in the proton-translocating subunits of F₀. Molecular Biology of the Cell, 2014, 25, 791-799.	2.1	10
45	ATP Synthase Subunit a Supports Permeability Transition in Yeast Lacking Dimerization Subunits and Modulates yPTP Conductance. Cellular Physiology and Biochemistry, 2020, 54, 211-229.	1.6	9
46	TheSaccharomyces cerevisiaeprotein Ccz1p interacts with components of the endosomal fusion machinery. FEMS Yeast Research, 2009, 9, 565-573.	2.3	8
47	Functional investigation of an universally conserved leucine residue in subunit a of ATP synthase targeted by the pathogenic m.9176â€ T>G mutation. Biochimica Et Biophysica Acta - Bioenergetics, 2019, 1860, 52-59.	1.0	8
48	The pathogenic m.8993ÂTâ€‰>â€‰G mutation in mitochondrial ATP6 gene prevents proton release from the subunit c-ring rotor of ATP synthase. Human Molecular Genetics, 2021, 30, 381-392.	2.9	8
49	Case Report: Identification of a Novel Variant (m.8909T>C) of Human Mitochondrial ATP6 Gene and Its Functional Consequences on Yeast ATP Synthase. Life, 2020, 10, 215.	2.4	7
50	The Suppressor of AAC2 Lethality SAL1 Modulates Sensitivity of Heterologously Expressed Artemia ADP/ATP Carrier to Bongkrekate in Yeast. PLoS ONE, 2013, 8, e74187.	2.5	7
51	Regulation of Aerobic Energy Metabolism in Podospora anserina by Two Paralogous Genes Encoding Structurally Different c-Subunits of ATP Synthase. PLoS Genetics, 2016, 12, e1006161.	3.5	6
52	Assembly-dependent translation of subunits 6 (Atp6) and 9 (Atp9) of ATP synthase in yeast mitochondria. Genetics, 2022, 220, .	2.9	5
53	Perturbation of the yeast mitochondrial lipidome and associated membrane proteins following heterologous expression of Artemia-ANT. Scientific Reports, 2018, 8, 5915.	3.3	3
54	5,6-diiodo-1H-benzotriazole: new TBBt analogue that minutely affects mitochondrial activity. Scientific Reports, 2021, 11, 23701.	3.3	2