Alena ZÃ-kovÃ¡

List of Publications by Year
in descending order

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Version: 2024-02-01

55 papers	2,275 citations	257450 24 h-index	233421 45 g-index
71 all docs	71 docs citations	71 times ranked	1745 citing authors

#	Article	IF	Citations
1	Kinetoplast DNA Network: Evolution of an Improbable Structure. Eukaryotic Cell, 2002, 1, 495-502.	3.4	272
2	Unexplained complexity of the mitochondrial genome and transcriptome in kinetoplastid flagellates. Current Genetics, 2005, 48, 277-299.	1.7	180
3	A comprehensive analysis of Trypanosoma brucei mitochondrial proteome. Proteomics, 2009, 9, 434-450.	2.2	162
4	Mitochondrial Complexes in Trypanosoma brucei. Molecular and Cellular Proteomics, 2008, 7, 534-545.	3.8	133
5	The F0F1-ATP Synthase Complex Contains Novel Subunits and Is Essential for Procyclic Trypanosoma brucei. PLoS Pathogens, 2009, 5, e1000436.	4.7	108
6	RNA Interference Analyses Suggest a Transcript-specific Regulatory Role for Mitochondrial RNA-binding Proteins MRP1 and MRP2 in RNA Editing and Other RNA Processing in Trypanosoma brucei. Journal of Biological Chemistry, 2005, 280, 2429-2438.	3.4	106
7	Crystal Structures of T. brucei MRP1/MRP2 Guide-RNA Binding Complex Reveal RNA Matchmaking Mechanism. Cell, 2006, 126, 701-711.	28.9	101
8	Trypanosoma brucei Mitochondrial Ribosomes. Molecular and Cellular Proteomics, 2008, 7, 1286-1296.	3.8	92
9	Malleable Mitochondrion of Trypanosoma brucei. International Review of Cell and Molecular Biology, 2015, 315, 73-151.	3.2	88
10	TbRGG1, an essential protein involved in kinetoplastid RNA metabolism that is associated with a novel multiprotein complex. Rna, 2008, 14, 970-980.	3.5	82
11	Lexis and Grammar of Mitochondrial RNA Processing in Trypanosomes. Trends in Parasitology, 2020, 36, 337-355.	3.3	71
12	A paradigm shift: The mitoproteomes of procyclic and bloodstream Trypanosoma brucei are comparably complex. PLoS Pathogens, 2017, 13, e1006679.	4.7	57
13	Trypanosoma brucei Mitochondrial Respiratome: Composition and Organization in Procyclic Form. Molecular and Cellular Proteomics, 2011, 10, M110.006908.	3.8	56
14	The MRB1 complex functions in kinetoplastid RNA processing. Rna, 2009, 15, 277-286.	3.5	51
15	ATPaseTb2, a Unique Membrane-bound FoF1-ATPase Component, Is Essential in Bloodstream and Dyskinetoplastic Trypanosomes. PLoS Pathogens, 2015, 11, e1004660.	4.7	43
16	A putative novel nuclear-encoded subunit of the cytochrome c oxidase complex in trypanosomatids. Molecular and Biochemical Parasitology, 2002, 125, 113-125.	1.1	41
17	Trypanocidal action of bisphosphonium salts through a mitochondrial target in bloodstream form Trypanosoma brucei. International Journal for Parasitology: Drugs and Drug Resistance, 2016, 6, 23-34.	3.4	38
18	Interconnected assembly factors regulate the biogenesis of mitoribosomal large subunit. EMBO Journal, 2021, 40, e106292.	7.8	36

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19	Structure and function of the native and recombinant mitochondrial MRP1/MRP2 complex from Trypanosoma brucei. International Journal for Parasitology, 2008, 38, 901-912.	3.1	34
20	The Fe/S Cluster Assembly Protein Isd11 Is Essential for tRNA Thiolation in Trypanosoma brucei. Journal of Biological Chemistry, 2010, 285, 22394-22402.	3.4	32
21	Suramin exposure alters cellular metabolism and mitochondrial energy production in African trypanosomes. Journal of Biological Chemistry, 2020, 295, 8331-8347.	3.4	32
22	Cell-based and multi-omics profiling reveals dynamic metabolic repurposing of mitochondria to drive developmental progression of Trypanosoma brucei. PLoS Biology, 2020, 18, e3000741.	5.6	32
23	Structural and Functional Association of Trypanosoma brucei MIX Protein with Cytochrome c Oxidase Complex. Eukaryotic Cell, 2008, 7, 1994-2003.	3.4	31
24	Causes and Effects of Loss of Classical Nonhomologous End Joining Pathway in Parasitic Eukaryotes. MBio, 2019, 10, .	4.1	31
25	Evaluation of the Trypanosoma brucei 6-oxopurine salvage pathway as a potential target for drug discovery. PLoS Neglected Tropical Diseases, 2018, 12, e0006301.	3.0	28
26	ATP synthase from Trypanosoma brucei has an elaborated canonical F ₁ -domain and conventional catalytic sites. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2102-2107.	7.1	27
27	Aerobic mitochondria of parasitic protists: Diverse genomes and complex functions. Molecular and Biochemical Parasitology, 2016, 209, 46-57.	1.1	24
28	Trypanosoma brucei TbIF1 inhibits the essential F1-ATPase in the infectious form of the parasite. PLoS Neglected Tropical Diseases, 2017, 11, e0005552.	3.0	23
29	Functions and cellular localization of cysteine desulfurase and selenocysteine lyase in Trypanosomaâ€ƒbrucei. FEBS Journal, 2010, 277, 383-393.	4.7	21
30	The ADP/ATP Carrier and Its Relationship to Oxidative Phosphorylation in Ancestral Protist Trypanosoma brucei. Eukaryotic Cell, 2015, 14, 297-310.	3.4	21
31	The F₁â€<scp>ATP</scp>ase from Trypanosoma brucei is elaborated by three copies of an additional p18â€subunit. FEBS Journal, 2018, 285, 614-628.	4.7	20
32	Bioenergetic consequences of FoF1â€“ATP synthase/ATPase deficiency in two life cycle stages of Trypanosoma brucei. Journal of Biological Chemistry, 2021, 296, 100357.	3.4	19
33	Redesigned and reversed: architectural and functional oddities of the trypanosomal ATP synthase. Parasitology, 2021, 148, 1151-1160.	1.5	18
34	The effect of down-regulation of mitochondrial RNA-binding proteins MRP1 and MRP2 on respiratory complexes in procyclic Trypanosoma brucei. Molecular and Biochemical Parasitology, 2006, 149, 65-73.	1.1	16
35	Disparate phenotypic effects from the knockdown of various Trypanosoma brucei cytochrome c oxidase subunits. Molecular and Biochemical Parasitology, 2012, 184, 90-98.	1.1	16
36	Procyclic trypanosomes recycle glucose catabolites and TCA cycle intermediates to stimulate growth in the presence of physiological amounts of proline. PLoS Pathogens, 2021, 17, e1009204.	4.7	16

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37	Crystal structures and inhibition of Trypanosoma brucei hypoxanthineâ€“guanine phosphoribosyltransferase. Scientific Reports, 2016, 6, 35894.	3.3	15
38	Mitochondrial adaptations throughout the Trypanosoma brucei lifeÂcycle. Journal of Eukaryotic Microbiology, 2022, 69, e12911.	1.7	11
39	Mitochondrial Contact Site and Cristae Organization System and F ₁ F _O -ATP Synthase Crosstalk Is a Fundamental Property of Mitochondrial Cristae. MSphere, 2021, 6, e0032721.	2.9	10
40	Crystal structures ofTrypanosoma bruceihypoxanthine â€“ guanine â€“ xanthine phosphoribosyltransferase in complex withIMP,GMPandXMP. FEBS Journal, 2019, 286, 4721-4736.	4.7	9
41	Depletion of cardiolipin induces major changes in energy metabolism in Trypanosoma brucei bloodstream forms. FASEB Journal, 2021, 35, e21176.	0.5	8
42	Acyclic nucleoside phosphonates with adenine nucleobase inhibit Trypanosoma brucei adenine phosphoribosyltransferase in vitro. Scientific Reports, 2021, 11, 13317.	3.3	8
43	Developmental regulation of edited CYb and COIII mitochondrial mRNAs is achieved by distinct mechanisms in Trypanosoma brucei. Nucleic Acids Research, 2020, 48, 8704-8723.	14.5	7
44	Synthesis and anti-trypanosomal activity of 3â€²-fluororibonucleosides derived from 7-deazapurine nucleosides. Bioorganic and Medicinal Chemistry Letters, 2021, 40, 127957.	2.2	6
45	Inhibition of F 1 â€•ATP ase from TrypanosomaÂbrucei by its regulatory protein inhibitor Tb IF 1. FEBS Journal, 2018, 285, 4413-4423.	4.7	5
46	Cultured bloodstream Trypanosoma brucei adapt to life without mitochondrial translation release factor 1. Scientific Reports, 2018, 8, 5135.	3.3	5
47	Cruzella marina (Bodonina, Kinetoplastida): non-catenated structure of poly-kinetoplast DNA*1. Experimental Parasitology, 2003, 104, 159-161.	1.2	4
48	Trypanosome Mitochondrial Translation and Tetracycline: No Sweat about Tet. PLoS Pathogens, 2016, 12, e1005492.	4.7	4
49	Synthesis and Antitrypanosomal Activity of 6-Substituted 7-Methyl-7-deazapurine Nucleosides. ACS Infectious Diseases, 2021, 7, 917-926.	3.8	4
50	Stereo-Defined Acyclic Nucleoside Phosphonates are Selective and Potent Inhibitors of Parasite 6-Oxopurine Phosphoribosyltransferases. Journal of Medicinal Chemistry, 2022, 65, 4030-4057.	6.4	3
51	Synthesis and anti-trypanosomal evaluation of novel N-branched acyclic nucleoside phosphonates bearing 7-aryl-7-deazapurine nucleobase. European Journal of Medicinal Chemistry, 2022, 239, 114559.	5.5	3
52	C1â€²-Branched acyclic nucleoside phosphonates mimicking adenosine monophosphate: Potent inhibitors of Trypanosoma brucei adenine phosphoribosyltransferase. European Journal of Medicinal Chemistry, 2021, 225, 113798.	5.5	2
53	Isolation of F₁-ATPase from the Parasitic Protist Trypanosoma brucei. Journal of Visualized Experiments, 2019, , .	0.3	1
54	Fancy a gene? A surprisingly complex evolutionary history of peroxiredoxins.. Microbial Cell, 2015, 2, 33-37.	3.2	1

#	Article	IF	Citations
55	Erratum for Cadena et al., â€œMitochondrial Contact Site and Cristae Organization System and F ₁ F _O -ATP Synthase Crosstalk Is a Fundamental Property of Mitochondrial Cristaeâ€• MSphere, 2022, , e0018922.	2.9	0