

# Alena ZÃ-kovÃ;

## List of Publications by Year in descending order

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55  
papers

2,275  
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257450

24  
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233421

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docs citations

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1745  
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#	ARTICLE	IF	CITATIONS
1	Stereo-Defined Acyclic Nucleoside Phosphonates are Selective and Potent Inhibitors of Parasite 6-Oxopurine Phosphoribosyltransferases. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 4030-4057.	6.4	3
2	Mitochondrial adaptations throughout the <i>Trypanosoma brucei</i> life cycle. <i>Journal of Eukaryotic Microbiology</i> , 2022, 69, e12911.	1.7	11
3	Erratum for Cadena et al., "Mitochondrial Contact Site and Cristae Organization System and F <sub>1</sub> F <sub>0</sub> -ATP Synthase Crosstalk Is a Fundamental Property of Mitochondrial Cristae" <i>MSphere</i> , 2022, , e0018922.	2.9	0
4	Synthesis and anti-trypanosomal evaluation of novel N-branched acyclic nucleoside phosphonates bearing 7-aryl-7-deazapurine nucleobase. <i>European Journal of Medicinal Chemistry</i> , 2022, 239, 114559.	5.5	3
5	Depletion of cardiolipin induces major changes in energy metabolism in <i>Trypanosoma brucei</i> bloodstream forms. <i>FASEB Journal</i> , 2021, 35, e21176.	0.5	8
6	Interconnected assembly factors regulate the biogenesis of mitoribosomal large subunit. <i>EMBO Journal</i> , 2021, 40, e106292.	7.8	36
7	Redesigned and reversed: architectural and functional oddities of the trypanosomal ATP synthase. <i>Parasitology</i> , 2021, 148, 1151-1160.	1.5	18
8	Synthesis and Antitrypanosomal Activity of 6-Substituted 7-Methyl-7-deazapurine Nucleosides. <i>ACS Infectious Diseases</i> , 2021, 7, 917-926.	3.8	4
9	Procyclic trypanosomes recycle glucose catabolites and TCA cycle intermediates to stimulate growth in the presence of physiological amounts of proline. <i>PLoS Pathogens</i> , 2021, 17, e1009204.	4.7	16
10	Synthesis and anti-trypanosomal activity of 3-fluororibonucleosides derived from 7-deazapurine nucleosides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2021, 40, 127957.	2.2	6
11	Acyclic nucleoside phosphonates with adenine nucleobase inhibit <i>Trypanosoma brucei</i> adenine phosphoribosyltransferase in vitro. <i>Scientific Reports</i> , 2021, 11, 13317.	3.3	8
12	Mitochondrial Contact Site and Cristae Organization System and F <sub>1</sub> F <sub>0</sub> -ATP Synthase Crosstalk Is a Fundamental Property of Mitochondrial Cristae. <i>MSphere</i> , 2021, 6, e0032721.	2.9	10
13	C1 <sup>2</sup> -Branched acyclic nucleoside phosphonates mimicking adenosine monophosphate: Potent inhibitors of <i>Trypanosoma brucei</i> adenine phosphoribosyltransferase. <i>European Journal of Medicinal Chemistry</i> , 2021, 225, 113798.	5.5	2
14	Bioenergetic consequences of FoF <sub>1</sub> -ATP synthase/ATPase deficiency in two life cycle stages of <i>Trypanosoma brucei</i> . <i>Journal of Biological Chemistry</i> , 2021, 296, 100357.	3.4	19
15	Developmental regulation of edited CYb and COIII mitochondrial mRNAs is achieved by distinct mechanisms in <i>Trypanosoma brucei</i> . <i>Nucleic Acids Research</i> , 2020, 48, 8704-8723.	14.5	7
16	Suramin exposure alters cellular metabolism and mitochondrial energy production in African trypanosomes. <i>Journal of Biological Chemistry</i> , 2020, 295, 8331-8347.	3.4	32
17	Cell-based and multi-omics profiling reveals dynamic metabolic repurposing of mitochondria to drive developmental progression of <i>Trypanosoma brucei</i> . <i>PLoS Biology</i> , 2020, 18, e3000741.	5.6	32
18	Lexis and Grammar of Mitochondrial RNA Processing in Trypanosomes. <i>Trends in Parasitology</i> , 2020, 36, 337-355.	3.3	71

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19	Causes and Effects of Loss of Classical Nonhomologous End Joining Pathway in Parasitic Eukaryotes. MBio, 2019, 10, .	4.1	31
20	Crystal structures of Trypanosoma brucei hypoxanthine-guanine xanthine phosphoribosyltransferase in complex with IMP, GMP and XMP. FEBS Journal, 2019, 286, 4721-4736.	4.7	9
21	Isolation of F <sub>1</sub> -ATPase from the Parasitic Protist Trypanosoma brucei. Journal of Visualized Experiments, 2019, .	0.3	1
22	ATP synthase from Trypanosoma brucei has an elaborated canonical F <sub>1</sub> -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
23	The F <sub>1</sub> -ATPase from Trypanosoma brucei is elaborated by three copies of an additional p18 subunit. FEBS Journal, 2018, 285, 614-628.	4.7	20
24	Inhibition of F <sub>1</sub> -ATPase from Trypanosoma brucei by its regulatory protein inhibitor Tb IF 1. FEBS Journal, 2018, 285, 4413-4423.	4.7	5
25	Cultured bloodstream Trypanosoma brucei adapt to life without mitochondrial translation release factor 1. Scientific Reports, 2018, 8, 5135.	3.3	5
26	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
27	A paradigm shift: The mitoproteomes of procyclic and bloodstream Trypanosoma brucei are comparably complex. PLoS Pathogens, 2017, 13, e1006679.	4.7	57
28	Trypanosoma brucei TbIF1 inhibits the essential F <sub>1</sub> -ATPase in the infectious form of the parasite. PLoS Neglected Tropical Diseases, 2017, 11, e0005552.	3.0	23
29	Trypanosome Mitochondrial Translation and Tetracycline: No Sweat about Tet. PLoS Pathogens, 2016, 12, e1005492.	4.7	4
30	Crystal structures and inhibition of Trypanosoma brucei hypoxanthine-guanine phosphoribosyltransferase. Scientific Reports, 2016, 6, 35894.	3.3	15
31	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
32	Aerobic mitochondria of parasitic protists: Diverse genomes and complex functions. Molecular and Biochemical Parasitology, 2016, 209, 46-57.	1.1	24
33	The ADP/ATP Carrier and Its Relationship to Oxidative Phosphorylation in Ancestral Protist Trypanosoma brucei. Eukaryotic Cell, 2015, 14, 297-310.	3.4	21
34	Malleable Mitochondrion of Trypanosoma brucei. International Review of Cell and Molecular Biology, 2015, 315, 73-151.	3.2	88
35	ATPase Tb2, a Unique Membrane-bound FoF <sub>1</sub> -ATPase Component, Is Essential in Bloodstream and Dyskinetoplastic Trypanosomes. PLoS Pathogens, 2015, 11, e1004660.	4.7	43
36	Fancy a gene? A surprisingly complex evolutionary history of peroxiredoxins. Microbial Cell, 2015, 2, 33-37.	3.2	1

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37	Disparate phenotypic effects from the knockdown of various <i>Trypanosoma brucei</i> cytochrome c oxidase subunits. <i>Molecular and Biochemical Parasitology</i> , 2012, 184, 90-98.	1.1	16
38	<i>Trypanosoma brucei</i> Mitochondrial Respiratome: Composition and Organization in Procyclic Form. <i>Molecular and Cellular Proteomics</i> , 2011, 10, M110.006908.	3.8	56
39	Functions and cellular localization of cysteine desulfurase and selenocysteine lyase in <i>Trypanosoma brucei</i> . <i>FEBS Journal</i> , 2010, 277, 383-393.	4.7	21
40	The Fe/S Cluster Assembly Protein Isd11 Is Essential for tRNA Thiolation in <i>Trypanosoma brucei</i> . <i>Journal of Biological Chemistry</i> , 2010, 285, 22394-22402.	3.4	32
41	The FOF1-ATP Synthase Complex Contains Novel Subunits and Is Essential for Procyclic <i>Trypanosoma brucei</i> . <i>PLoS Pathogens</i> , 2009, 5, e1000436.	4.7	108
42	The MRB1 complex functions in kinetoplastid RNA processing. <i>Rna</i> , 2009, 15, 277-286.	3.5	51
43	A comprehensive analysis of <i>Trypanosoma brucei</i> mitochondrial proteome. <i>Proteomics</i> , 2009, 9, 434-450.	2.2	162
44	Structure and function of the native and recombinant mitochondrial MRP1/MRP2 complex from <i>Trypanosoma brucei</i> . <i>International Journal for Parasitology</i> , 2008, 38, 901-912.	3.1	34
45	Structural and Functional Association of <i>Trypanosoma brucei</i> MIX Protein with Cytochrome c Oxidase Complex. <i>Eukaryotic Cell</i> , 2008, 7, 1994-2003.	3.4	31
46	TbRGG1, an essential protein involved in kinetoplastid RNA metabolism that is associated with a novel multiprotein complex. <i>Rna</i> , 2008, 14, 970-980.	3.5	82
47	<i>Trypanosoma brucei</i> Mitochondrial Ribosomes. <i>Molecular and Cellular Proteomics</i> , 2008, 7, 1286-1296.	3.8	92
48	Mitochondrial Complexes in <i>Trypanosoma brucei</i> . <i>Molecular and Cellular Proteomics</i> , 2008, 7, 534-545.	3.8	133
49	Crystal Structures of <i>T. brucei</i> MRP1/MRP2 Guide-RNA Binding Complex Reveal RNA Matchmaking Mechanism. <i>Cell</i> , 2006, 126, 701-711.	28.9	101
50	The effect of down-regulation of mitochondrial RNA-binding proteins MRP1 and MRP2 on respiratory complexes in procyclic <i>Trypanosoma brucei</i> . <i>Molecular and Biochemical Parasitology</i> , 2006, 149, 65-73.	1.1	16
51	Unexplained complexity of the mitochondrial genome and transcriptome in kinetoplastid flagellates. <i>Current Genetics</i> , 2005, 48, 277-299.	1.7	180
52	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 <i>Trypanosoma brucei</i> . <i>Journal of Biological Chemistry</i> , 2005, 280, 2429-2438.	3.4	106
53	<i>Cruzella marina</i> (Bodonina, Kinetoplastida): non-catenated structure of poly-kinetoplast DNA*1. <i>Experimental Parasitology</i> , 2003, 104, 159-161.	1.2	4
54	Kinetoplast DNA Network: Evolution of an Improbable Structure. <i>Eukaryotic Cell</i> , 2002, 1, 495-502.	3.4	272

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55	A putative novel nuclear-encoded subunit of the cytochrome c oxidase complex in trypanosomatids. <i>Molecular and Biochemical Parasitology</i> , 2002, 125, 113-125.	1.1	41