Jan Tachezy

List of Publications by Year
in descending order

103	5,698	76326	79698
papers	citations	40 h-index	73 g-index

105	105	105	3857
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Draft Genome Sequence of the Sexually Transmitted Pathogen Trichomonas vaginalis. Science, 2007, 315, 207-212.	12.6	731
2	Mitochondrial remnant organelles of Giardia function in iron-sulphur protein maturation. Nature, 2003, 426, 172-176.	27.8	526
3	Evolution of the Molecular Machines for Protein Import into Mitochondria. Science, 2006, 313, 314-318.	12.6	487
4	Trichomonas hydrogenosomes contain the NADH dehydrogenase module of mitochondrial complex I. Nature, 2004, 432, 618-622.	27.8	247
5	Mitochondrial Type Iron-Sulfur Cluster Assembly in the Amitochondriate Eukaryotes Trichomonas vaginalis and Giardia intestinalis, as Indicated by the Phylogeny of IscS. Molecular Biology and Evolution, 2001, 18, 1919-1928.	8.9	166
6	Mitochondrial-type assembly of FeS centers in the hydrogenosomes of the amitochondriate eukaryote Trichomonas vaginalis. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 10368-10373.	7.1	150
7	Giardia mitosomes and trichomonad hydrogenosomes share a common mode of protein targeting. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 10924-10929.	7.1	141
8	Crusade for iron: iron uptake in unicellular eukaryotes and its significance for virulence. Trends in Microbiology, 2008, 16, 261-268.	7.7	126
9	The Minimal Proteome in the Reduced Mitochondrion of the Parasitic Protist Giardia intestinalis. PLoS ONE, 2011, 6, e17285.	2.5	122
10	Mitochondrial-type ironâ€“sulfur cluster biosynthesis genes (IscS and IscU) in the apicomplexan Cryptosporidium parvum. Microbiology (United Kingdom), 2003, 149, 3519-3530.	1.8	86
11	Cryptic species within the Tetratrichomonas gallinarum species complex revealed by molecular polymorphism. Veterinary Parasitology, 2005, 128, 11-21.	1.8	83
12	Cattle Pathogen Tritrichomonas foetus (Riedmuller, 1928) and Pig Commensal Tritrichomonas suis (Gruby & Delafond, 1843) Belong to the Same Species. Journal of Eukaryotic Microbiology, 2002, 49, 154-163.	1.7	82
13	Mechanisms of in vitro development of resistance to metronidazole in Trichomonas vaginalis. Microbiology (United Kingdom), 2002, 148, 2467-2477.	1.8	78
14	Deep sequencing of Trichomonas vaginalis during the early infection of vaginal epithelial cells and amoeboid transition. International Journal for Parasitology, 2013, 43, 707-719.	3.1	76
15	In Vitro Induced Anaerobic Resistance to Metronidazole In Trichomonas Vaginalis. Journal of Eukaryotic Microbiology, 1993, 40, 262-269.	1.7	74
16	Molecular biology of the amitochondriate parasites, Giardia intestinalis, Entamoeba histolytica and Trichomonas vaginalis. International Journal for Parasitology, 2003, 33, 235-255.	3.1	73
17	Trichomonas vaginalis vast BspA-like gene family: evidence for functional diversity from structural organisation and transcriptomics. BMC Genomics, 2010, 11, 99.	2.8	71
18	Knock-downs of Iron-Sulfur Cluster Assembly Proteins IscS and IscU Down-regulate the Active Mitochondrion of Procyclic Trypanosoma brucei. Journal of Biological Chemistry, 2006, 281, 28679-28686.	3.4	70

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19	The Core Components of Organelle Biogenesis and Membrane Transport in the Hydrogenosomes of Trichomonas vaginalis. PLoS ONE, 2011, 6, e24428.	2.5	69
20	The Essentials of Protein Import in the Degenerate Mitochondrion of Entamoeba histolytica. PLoS Pathogens, 2010, 6, e1000812.	4.7	64
21	Iron-Induced Changes in the Proteome of Trichomonas vaginalis Hydrogenosomes. PLoS ONE, 2013, 8, e65148.	2.5	64
22	Lateral Gene Transfer and Gene Duplication Played a Key Role in the Evolution of Mastigamoeba balamuthi Hydrogenosomes. Molecular Biology and Evolution, 2015, 32, 1039-1055.	8.9	63
23	Tritrichomonas foetus:Iron Acquisition from Lactoferrin and Transferrin. Experimental Parasitology, 1996, 83, 216-228.	1.2	62
24	Characterization of Trichomonad Species and Strains by PCR Fingerprinting. Journal of Eukaryotic Microbiology, 1997, 44, 545-552.	1.7	60
25	NIF-type iron-sulfur cluster assembly system is duplicated and distributed in the mitochondria and cytosol of Mastigamoeba balamuthi. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7371-7376.	7.1	60
26	Alternative Pathway of Metronidazole Activation in Trichomonas vaginalis Hydrogenosomes. Antimicrobial Agents and Chemotherapy, 2005, 49, 5033-5036.	3.2	59
27	The Protein Import Channel in the Outer Mitosomal Membrane of Giardia intestinalis. Molecular Biology and Evolution, 2009, 26, 1941-1947.	8.9	59
28	Flavodiiron Protein from Trichomonas vaginalis Hydrogenosomes: the Terminal Oxygen Reductase. Eukaryotic Cell, 2009, 8, 47-55.	3.4	59
29	Targeted gene replacement of a ferredoxin gene in Trichomonas vaginalis does not lead to metronidazole resistance. Molecular Microbiology, 2003, 51, 115-122.	2.5	57
30	Reductive Evolution of the Mitochondrial Processing Peptidases of the Unicellular Parasites Trichomonas vaginalis and Giardia intestinalis. PLoS Pathogens, 2008, 4, e1000243.	4.7	56
31	Transcriptomic Identification of Iron-Regulated and Iron-Independent Gene Copies within the Heavily Duplicated Trichomonas vaginalis Genome. Genome Biology and Evolution, 2012, 4, 1017-1029.	2.5	54
32	Iron-induced changes in pyruvate metabolism of Tritrichomonas foetus and involvement of iron in expression of hydrogenosomal proteins. Microbiology (United Kingdom), 2001, 147, 53-62.	1.8	53
33	Fe-Hydrogenase Maturases in the Hydrogenosomes of Trichomonas vaginalis. Eukaryotic Cell, 2006, 5, 579-586.	3.4	52
34	Comparative analysis of trichomonad genome sizes and karyotypes. Molecular and Biochemical Parasitology, 2008, 161, 49-54.	1.1	52
35	Conservation of Transit Peptide-Independent Protein Import into the Mitochondrial and Hydrogenosomal Matrix. Genome Biology and Evolution, 2015, 7, 2716-2726.	2.5	51
36	Comparative analysis of Tritrichomonas foetus (RiedmÃ¼ller, 1928) cat genotype, T. foetus (RiedmÃ¼ller,) Tj ETQq0 0 0 rgBT /Overlock Parasitology, 2012, 42, 1143-1149.	3.1	49

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37	Critical analysis of the topology and rooting of the parabasalian 16S rRNA tree. Molecular Phylogenetics and Evolution, 2004, 32, 711-723.	2.7	48
38	Microsatellite polymorphism in the sexually transmitted human pathogen Trichomonas vaginalis indicates a genetically diverse parasite. Molecular and Biochemical Parasitology, 2011, 175, 30-38.	1.1	48
39	The contribution of the arginine dihydrolase pathway to energy metabolism by Trichomonas vaginalis. Molecular and Biochemical Parasitology, 1996, 78, 117-125.	1.1	47
40	Frataxin, a Conserved Mitochondrial Protein, in the Hydrogenosome of Trichomonas vaginalis. Eukaryotic Cell, 2007, 6, 1431-1438.	3.4	43
41	Tom40 is likely common to all mitochondria. Current Biology, 2012, 22, R479-R481.	3.9	41
42	Probing the Biology of Giardia intestinalis Mitosomes Using In Vivo Enzymatic Tagging. Molecular and Cellular Biology, 2015, 35, 2864-2874.	2.3	41
43	Dynamic secretome of Trichomonas vaginalis: Case study of Î²-amylases. Molecular and Cellular Proteomics, 2018, 17, 304-320.	3.8	40
44	Malic enzymes of Trichomonas vaginalis: two enzyme families, two distinct origins. Gene, 2004, 329, 81-92.	2.2	37
45	Ancestral roles of eukaryotic frataxin: mitochondrial frataxin function and heterologous expression of hydrogenosomal Trichomonas homologues in trypanosomes. Molecular Microbiology, 2008, 69, 94-109.	2.5	35
46	A sophisticated, differentiated Golgi in the ancestor of eukaryotes. BMC Biology, 2018, 16, 27.	3.8	35
47	Triplet-pore structure of a highly divergent TOM complex of hydrogenosomes in Trichomonas vaginalis. PLoS Biology, 2019, 17, e3000098.	5.6	33
48	The Mitochondrion-Like Organelle of Trimastix pyriformis Contains the Complete Glycine Cleavage System. PLoS ONE, 2013, 8, e55417.	2.5	31
49	Evolutionary loss of peroxisomes â€“ not limited to parasites. Biology Direct, 2015, 10, 74.	4.6	29
50	Morphological and Molecular Diversity of the Monocercomonadid Genera Monocercomonas, Hexamastix, and Honigbergiella gen. nov.. Protist, 2007, 158, 365-383.	1.5	28
51	Arginine metabolism in Trichomonas vaginalis infected with Mycoplasma hominis. Microbiology (United Kingdom), 2010, 156, 3734-3743.	1.8	27
52	Efficient Iron Uptake via a Reductive Mechanism in ProcyclicTrypanosoma brucei. Journal of Parasitology, 2013, 99, 363-364.	0.7	27
53	A Nonmitochondrial Hydrogen Production in Naegleria gruberi. Genome Biology and Evolution, 2014, 6, 792-799.	2.5	27
54	Giardia intestinalis mitosomes undergo synchronized fission but not fusion and are constitutively associated with the endoplasmic reticulum. BMC Biology, 2017, 15, 27.	3.8	26

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55	OsmC and incomplete glycine decarboxylase complex mediate reductive detoxification of peroxides in hydrogenosomes of Trichomonas vaginalis. Molecular and Biochemical Parasitology, 2016, 206, 29-38.	1.1	25
56	Affiliation of Cochlosoma to trichomonads confirmed by phylogenetic analysis of the small-subunit rRNA gene and a new family concept of the order Trichomonadida. International Journal of Systematic and Evolutionary Microbiology, 2006, 56, 305-312.	1.7	24
57	Hydrogenosome-localization of arginine deiminase in Trichomonas vaginalis. Molecular and Biochemical Parasitology, 2011, 176, 51-54.	1.1	24
58	The Monothiol Single-Domain Glutaredoxin Is Conserved in the Highly Reduced Mitochondria of Giardia intestinalis. Eukaryotic Cell, 2009, 8, 1584-1591.	3.4	23
59	Live Imaging of Mitosomes and Hydrogenosomes by HaloTag Technology. PLoS ONE, 2012, 7, e36314.	2.5	23
60	A paneukaryotic genomic analysis of the small GTPase RABL2 underscores the significance of recurrent gene loss in eukaryote evolution. Biology Direct, 2016, 11, 5.	4.6	22
61	The Host-Protein-Independent Iron Uptake byTritrichomonas foetus. Experimental Parasitology, 1998, 90, 155-163.	1.2	21
62	Functions and cellular localization of cysteine desulfurase and selenocysteine lyase in Trypanosomaâ€ƒbrucei. FEBS Journal, 2010, 277, 383-393.	4.7	21
63	Pyruvate Decarboxylase, the Target for Omeprazole in Metronidazole-Resistant and Iron-Restricted Tritrichomonas foetus. Antimicrobial Agents and Chemotherapy, 2004, 48, 2185-2189.	3.2	20
64	N-Terminal Presequence-Independent Import of Phosphofructokinase into Hydrogenosomes of Trichomonas vaginalis. Eukaryotic Cell, 2015, 14, 1264-1275.	3.4	20
65	Incorporation of iron into Tritrichomonas foetus cell compartments reveals ferredoxin as a major iron-binding protein in hydrogenosomes. Microbiology (United Kingdom), 2003, 149, 1911-1921.	1.8	19
66	Giardia intestinalis Incorporates Heme into Cytosolic Cytochrome b ₅. Eukaryotic Cell, 2014, 13, 231-239.	3.4	19
67	Minimal cytosolic ironâ€sulfur cluster assembly machinery of Giardia intestinalis is partially associated with mitosomes. Molecular Microbiology, 2016, 102, 701-714.	2.5	19
68	Anaerobic peroxisomes in Mastigamoeba balamuthi. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 2065-2075.	7.1	19
69	Ironâ€“Sulfur Proteins and Ironâ€“Sulfur Cluster Assembly in Organisms with Hydrogenosomes and Mitosomes. , 2007, , 105-133.		19
70	Fluorescence in situ hybridization (FISH) mapping of single copy genes on Trichomonas vaginalis chromosomes. Molecular and Biochemical Parasitology, 2011, 176, 135-137.	1.1	18
71	Novel Functions of an Iron-Sulfur Flavoprotein from Trichomonas vaginalis Hydrogenosomes. Antimicrobial Agents and Chemotherapy, 2014, 58, 3224-3232.	3.2	18
72	Iron enhancement of experimental infection of mice by Tritrichomonas foetus. Parasitology Research, 1999, 85, 692-699.	1.6	17

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73	Metabolism of Trichomonad Hydrogenosomes. , 2007, , 113-145.		17
74	An Advanced System of the Mitochondrial Processing Peptidase and Core Protein Family in Trypanosoma brucei and Multiple Origins of the Core I Subunit in Eukaryotes. Genome Biology and Evolution, 2013, 5, 860-875.	2.5	16
75	Secondary alcohol dehydrogenase catalyzes the reduction of exogenous acetone to 2â€propanol in Trichomonasâ€ƒvaginalis. FEBS Journal, 2012, 279, 2768-2780.	4.7	15
76	Mitochondrial pyruvate carrier in <scp>T</scp>rypanosoma brucei. Molecular Microbiology, 2016, 100, 442-456.	2.5	14
77	The Mastigamoeba balamuthi Genome and the Nature of the Free-Living Ancestor of Entamoeba. Molecular Biology and Evolution, 2021, 38, 2240-2259.	8.9	14
78	Zoonotic Trichomonas tenax and a new trichomonad species, Trichomonas brixi n. sp., from the oral cavities of dogs and cats. International Journal for Parasitology, 2017, 47, 247-255.	3.1	13
79	Determinism and contingencies shaped the evolution of mitochondrial protein import. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2017774118.	7.1	13
80	Anaerobic peroxisomes in Entamoeba histolytica metabolize myo-inositol. PLoS Pathogens, 2021, 17, e1010041.	4.7	13
81	Anaerobic derivates of mitochondria and peroxisomes in the free-living amoeba Pelomyxa schiedti revealed by single-cell genomics. BMC Biology, 2022, 20, 56.	3.8	13
82	Lateral gene transfer of pâ€cresolâ€•and indoleâ€producing enzymes from environmental bacteria to <scp>M</scp>astigamoeba balamuthi. Environmental Microbiology, 2017, 19, 1091-1102.	3.8	10
83	Double-Stranded RNA Viruses Are Released From Trichomonas vaginalis Inside Small Extracellular Vesicles and Modulate the Exosomal Cargo. Frontiers in Microbiology, 2022, 13, .	3.5	10
84	Siderophore and haem iron use by Tritrichomonas foetus. Microbiology (United Kingdom), 2004, 150, 3979-3987.	1.8	9
85	Histone H3 Variants in Trichomonas vaginalis. Eukaryotic Cell, 2012, 11, 654-661.	3.4	9
86	Trypanosomal mitochondrial intermediate peptidase does not behave as a classical mitochondrial processing peptidase. PLoS ONE, 2018, 13, e0196474.	2.5	9
87	Targeting of tailâ€anchored proteins to Trichomonas vaginalis hydrogenosomes. Molecular Microbiology, 2019, 111, 588-603.	2.5	9
88	A cytosolic ferredoxin-independent hydrogenase possibly mediates hydrogen uptake in Trichomonas vaginalis. Current Biology, 2022, 32, 124-135.e5.	3.9	9
89	Mitosomes in Parasitic Protists. , 2007, , 201-230.		8
90	Human mitochondrial ferritin improves respiratory function in yeast mutants deficient in ironâ€“sulfur cluster biogenesis, but is not a functional homologue of yeast frataxin. MicrobiologyOpen, 2012, 1, 95-104.	3.0	7

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91	The hydrogenosome of Trichomonas vaginalis. Journal of Eukaryotic Microbiology, 2022, 69, e12922.	1.7	7
92	Investigation of the Secretory Pathway in Trichomonas vaginalis Argues against a Moonlighting Function of Hydrogenosomal Enzymes. Journal of Eukaryotic Microbiology, 2019, 66, 899-910.	1.7	6
93	Cytidine nucleoside analog is an effective antiviral drug against Trichomonasvirus. Journal of Microbiology, Immunology and Infection, 2022, 55, 191-198.	3.1	6
94	Proteomic Analysis of Trichomonas vaginalis Phagolysosome, Lysosomal Targeting, and Unconventional Secretion of Cysteine Peptidases. Molecular and Cellular Proteomics, 2022, 21, 100174.	3.8	6
95	Identification of Endosymbiotic Virus in Small Extracellular Vesicles Derived from Trichomonas vaginalis. Genes, 2022, 13, 531.	2.4	6
96	More on Iron Acquisition by Parasitic Protozoa. Parasitology Today, 1999, 15, 207.	3.0	5
97	The iron-sulfur scaffold protein HCF101 unveils the complexity of organellar evolution in SAR, Haptista and Cryptista. Bmc Ecology and Evolution, 2021, 21, 46.	1.6	3
98	Alternative 2-keto acid oxidoreductases in Trichomonas vaginalis: Artifact of histochemical staining. Molecular and Biochemical Parasitology, 2012, 181, 57-59.	1.1	1
99	Trichomonas. , 2016, , 115-155.		1
100	The Proteome of T. vaginalis Hydrogenosomes. Microbiology Monographs, 2019, , 177-204.	0.6	1
101	Mitosomes in Parasitic Protists. Microbiology Monographs, 2019, , 205-242.	0.6	1
102	Metabolism of Trichomonad Hydrogenosomes. Microbiology Monographs, 2019, , 127-158.	0.6	0
103	The Giardia Mitosomes. , 2011, , 185-200.		0