

Jan Tachezy

List of Publications by Year in descending order

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103
papers

5,698
citations

76326

40
h-index

79698

73
g-index

105
all docs

105
docs citations

105
times ranked

3857
citing authors

#	ARTICLE	IF	CITATIONS
1	Cytidine nucleoside analog is an effective antiviral drug against <i>Trichomonas</i> virus. <i>Journal of Microbiology, Immunology and Infection</i> , 2022, 55, 191-198.	3.1	6
2	Proteomic Analysis of <i>Trichomonas vaginalis</i> Phagolysosome, Lysosomal Targeting, and Unconventional Secretion of Cysteine Peptidases. <i>Molecular and Cellular Proteomics</i> , 2022, 21, 100174.	3.8	6
3	A cytosolic ferredoxin-independent hydrogenase possibly mediates hydrogen uptake in <i>Trichomonas vaginalis</i> . <i>Current Biology</i> , 2022, 32, 124-135.e5.	3.9	9
4	Anaerobic derivatives of mitochondria and peroxisomes in the free-living amoeba <i>Pelomyxa schiedti</i> revealed by single-cell genomics. <i>BMC Biology</i> , 2022, 20, 56.	3.8	13
5	Identification of Endosymbiotic Virus in Small Extracellular Vesicles Derived from <i>Trichomonas vaginalis</i> . <i>Genes</i> , 2022, 13, 531.	2.4	6
6	Double-Stranded RNA Viruses Are Released From <i>Trichomonas vaginalis</i> Inside Small Extracellular Vesicles and Modulate the Exosomal Cargo. <i>Frontiers in Microbiology</i> , 2022, 13, .	3.5	10
7	The hydrogenosome of <i>Trichomonas vaginalis</i> . <i>Journal of Eukaryotic Microbiology</i> , 2022, 69, e12922.	1.7	7
8	The <i>Mastigamoeba balamuthi</i> Genome and the Nature of the Free-Living Ancestor of <i>Entamoeba</i> . <i>Molecular Biology and Evolution</i> , 2021, 38, 2240-2259.	8.9	14
9	Determinism and contingencies shaped the evolution of mitochondrial protein import. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, e2017774118.	7.1	13
10	The iron-sulfur scaffold protein HCF101 unveils the complexity of organellar evolution in SAR, Haptista and Cryptista. <i>Bmc Ecology and Evolution</i> , 2021, 21, 46.	1.6	3
11	Anaerobic peroxisomes in <i>Entamoeba histolytica</i> metabolize myo-inositol. <i>PLoS Pathogens</i> , 2021, 17, e1010041.	4.7	13
12	Anaerobic peroxisomes in <i>Mastigamoeba balamuthi</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 2065-2075.	7.1	19
13	Metabolism of <i>Trichomonad</i> Hydrogenosomes. <i>Microbiology Monographs</i> , 2019, , 127-158.	0.6	0
14	Triplet-pore structure of a highly divergent TOM complex of hydrogenosomes in <i>Trichomonas vaginalis</i> . <i>PLoS Biology</i> , 2019, 17, e3000098.	5.6	33
15	Investigation of the Secretory Pathway in <i>Trichomonas vaginalis</i> Argues against a Moonlighting Function of Hydrogenosomal Enzymes. <i>Journal of Eukaryotic Microbiology</i> , 2019, 66, 899-910.	1.7	6
16	Targeting of tail-anchored proteins to <i>Trichomonas vaginalis</i> hydrogenosomes. <i>Molecular Microbiology</i> , 2019, 111, 588-603.	2.5	9
17	The Proteome of <i>T. vaginalis</i> Hydrogenosomes. <i>Microbiology Monographs</i> , 2019, , 177-204.	0.6	1
18	Mitosomes in Parasitic Protists. <i>Microbiology Monographs</i> , 2019, , 205-242.	0.6	1

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19	Dynamic secretome of <i>Trichomonas vaginalis</i> : Case study of α -amylases. <i>Molecular and Cellular Proteomics</i> , 2018, 17, 304-320.	3.8	40
20	Trypanosomal mitochondrial intermediate peptidase does not behave as a classical mitochondrial processing peptidase. <i>PLoS ONE</i> , 2018, 13, e0196474.	2.5	9
21	A sophisticated, differentiated Golgi in the ancestor of eukaryotes. <i>BMC Biology</i> , 2018, 16, 27.	3.8	35
22	Zoonotic <i>Trichomonas tenax</i> and a new trichomonad species, <i>Trichomonas bixi</i> n. sp., from the oral cavities of dogs and cats. <i>International Journal for Parasitology</i> , 2017, 47, 247-255.	3.1	13
23	Lateral gene transfer of <i>p</i> -resol and indole-producing enzymes from environmental bacteria to <i>Mastigamoeba balamuthi</i> . <i>Environmental Microbiology</i> , 2017, 19, 1091-1102.	3.8	10
24	<i>Giardia intestinalis</i> mitochondria undergo synchronized fission but not fusion and are constitutively associated with the endoplasmic reticulum. <i>BMC Biology</i> , 2017, 15, 27.	3.8	26
25	Minimal cytosolic iron-sulfur cluster assembly machinery of <i>Giardia intestinalis</i> is partially associated with mitochondria. <i>Molecular Microbiology</i> , 2016, 102, 701-714.	2.5	19
26	<i>Trichomonas</i> . , 2016, , 115-155.		1
27	A pan-eukaryotic genomic analysis of the small GTPase RABL2 underscores the significance of recurrent gene loss in eukaryote evolution. <i>Biology Direct</i> , 2016, 11, 5.	4.6	22
28	Mitochondrial pyruvate carrier in <i>Trypanosoma brucei</i> . <i>Molecular Microbiology</i> , 2016, 100, 442-456.	2.5	14
29	OsmC and incomplete glycine decarboxylase complex mediate reductive detoxification of peroxides in hydrogenosomes of <i>Trichomonas vaginalis</i> . <i>Molecular and Biochemical Parasitology</i> , 2016, 206, 29-38.	1.1	25
30	Evolutionary loss of peroxisomes “not limited to parasites. <i>Biology Direct</i> , 2015, 10, 74.	4.6	29
31	Lateral Gene Transfer and Gene Duplication Played a Key Role in the Evolution of <i>Mastigamoeba balamuthi</i> Hydrogenosomes. <i>Molecular Biology and Evolution</i> , 2015, 32, 1039-1055.	8.9	63
32	Conservation of Transit Peptide-Independent Protein Import into the Mitochondrial and Hydrogenosomal Matrix. <i>Genome Biology and Evolution</i> , 2015, 7, 2716-2726.	2.5	51
33	Probing the Biology of <i>Giardia intestinalis</i> Mitochondria Using <i>In Vivo</i> Enzymatic Tagging. <i>Molecular and Cellular Biology</i> , 2015, 35, 2864-2874.	2.3	41
34	N-Terminal Presequence-Independent Import of Phosphofructokinase into Hydrogenosomes of <i>Trichomonas vaginalis</i> . <i>Eukaryotic Cell</i> , 2015, 14, 1264-1275.	3.4	20
35	A Nonmitochondrial Hydrogen Production in <i>Naegleria gruberi</i> . <i>Genome Biology and Evolution</i> , 2014, 6, 792-799.	2.5	27
36	<i>Giardia intestinalis</i> Incorporates Heme into Cytosolic Cytochrome <i>b</i> ₅ . <i>Eukaryotic Cell</i> , 2014, 13, 231-239.	3.4	19

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37	Novel Functions of an Iron-Sulfur Flavoprotein from <i>Trichomonas vaginalis</i> Hydrogenosomes. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 3224-3232.	3.2	18
38	NIF-type iron-sulfur cluster assembly system is duplicated and distributed in the mitochondria and cytosol of <i>Mastigamoeba balamuthi</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7371-7376.	7.1	60
39	Deep sequencing of <i>Trichomonas vaginalis</i> during the early infection of vaginal epithelial cells and amoeboid transition. <i>International Journal for Parasitology</i> , 2013, 43, 707-719.	3.1	76
40	Efficient Iron Uptake via a Reductive Mechanism in Procyclic <i>Trypanosoma brucei</i> . <i>Journal of Parasitology</i> , 2013, 99, 363-364.	0.7	27
41	An Advanced System of the Mitochondrial Processing Peptidase and Core Protein Family in <i>Trypanosoma brucei</i> and Multiple Origins of the Core I Subunit in Eukaryotes. <i>Genome Biology and Evolution</i> , 2013, 5, 860-875.	2.5	16
42	The Mitochondrion-Like Organelle of <i>Trimastix pyriformis</i> Contains the Complete Glycine Cleavage System. <i>PLoS ONE</i> , 2013, 8, e55417.	2.5	31
43	Iron-Induced Changes in the Proteome of <i>Trichomonas vaginalis</i> Hydrogenosomes. <i>PLoS ONE</i> , 2013, 8, e65148.	2.5	64
44	Histone H3 Variants in <i>Trichomonas vaginalis</i> . <i>Eukaryotic Cell</i> , 2012, 11, 654-661.	3.4	9
45	Comparative analysis of <i>Trichomonas foetus</i> (Riedmüller, 1928) cat genotype, <i>T. foetus</i> (Riedmüller, Tj ETQq1 1 0.784314 rgB). <i>Parasitology</i> , 2012, 42, 1143-1149.	3.1	49
46	Transcriptomic Identification of Iron-Regulated and Iron-Independent Gene Copies within the Heavily Duplicated <i>Trichomonas vaginalis</i> Genome. <i>Genome Biology and Evolution</i> , 2012, 4, 1017-1029.	2.5	54
47	Human mitochondrial ferritin improves respiratory function in yeast mutants deficient in iron-sulfur cluster biogenesis, but is not a functional homologue of yeast frataxin. <i>MicrobiologyOpen</i> , 2012, 1, 95-104.	3.0	7
48	Tom40 is likely common to all mitochondria. <i>Current Biology</i> , 2012, 22, R479-R481.	3.9	41
49	Secondary alcohol dehydrogenase catalyzes the reduction of exogenous acetone to 2-propanol in <i>Trichomonas vaginalis</i> . <i>FEBS Journal</i> , 2012, 279, 2768-2780.	4.7	15
50	Alternative 2-keto acid oxidoreductases in <i>Trichomonas vaginalis</i> : Artifact of histochemical staining. <i>Molecular and Biochemical Parasitology</i> , 2012, 181, 57-59.	1.1	1
51	Live Imaging of Mitosomes and Hydrogenosomes by HaloTag Technology. <i>PLoS ONE</i> , 2012, 7, e36314.	2.5	23
52	The Core Components of Organelle Biogenesis and Membrane Transport in the Hydrogenosomes of <i>Trichomonas vaginalis</i> . <i>PLoS ONE</i> , 2011, 6, e24428.	2.5	69
53	Microsatellite polymorphism in the sexually transmitted human pathogen <i>Trichomonas vaginalis</i> indicates a genetically diverse parasite. <i>Molecular and Biochemical Parasitology</i> , 2011, 175, 30-38.	1.1	48
54	Hydrogenosome-localization of arginine deiminase in <i>Trichomonas vaginalis</i> . <i>Molecular and Biochemical Parasitology</i> , 2011, 176, 51-54.	1.1	24

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55	Fluorescence in situ hybridization (FISH) mapping of single copy genes on <i>Trichomonas vaginalis</i> chromosomes. <i>Molecular and Biochemical Parasitology</i> , 2011, 176, 135-137.	1.1	18
56	The Minimal Proteome in the Reduced Mitochondrion of the Parasitic Protist <i>Giardia intestinalis</i> . <i>PLoS ONE</i> , 2011, 6, e17285.	2.5	122
57	The <i>Giardia</i> Mitosomes. , 2011, , 185-200.		0
58	<i>Trichomonas vaginalis</i> vast BspA-like gene family: evidence for functional diversity from structural organisation and transcriptomics. <i>BMC Genomics</i> , 2010, 11, 99.	2.8	71
59	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
60	The Essentials of Protein Import in the Degenerate Mitochondrion of <i>Entamoeba histolytica</i> . <i>PLoS Pathogens</i> , 2010, 6, e1000812.	4.7	64
61	Arginine metabolism in <i>Trichomonas vaginalis</i> infected with <i>Mycoplasma hominis</i> . <i>Microbiology (United Kingdom)</i> , 2010, 156, 3734-3743.	1.8	27
62	The Monothiol Single-Domain Glutaredoxin Is Conserved in the Highly Reduced Mitochondria of <i>Giardia intestinalis</i> . <i>Eukaryotic Cell</i> , 2009, 8, 1584-1591.	3.4	23
63	The Protein Import Channel in the Outer Mitosomal Membrane of <i>Giardia intestinalis</i> . <i>Molecular Biology and Evolution</i> , 2009, 26, 1941-1947.	8.9	59
64	Flavodiiron Protein from <i>Trichomonas vaginalis</i> Hydrogenosomes: the Terminal Oxygen Reductase. <i>Eukaryotic Cell</i> , 2009, 8, 47-55.	3.4	59
65	Ancestral roles of eukaryotic frataxin: mitochondrial frataxin function and heterologous expression of hydrogenosomal <i>Trichomonas</i> homologues in trypanosomes. <i>Molecular Microbiology</i> , 2008, 69, 94-109.	2.5	35
66	Comparative analysis of trichomonad genome sizes and karyotypes. <i>Molecular and Biochemical Parasitology</i> , 2008, 161, 49-54.	1.1	52
67	Crusade for iron: iron uptake in unicellular eukaryotes and its significance for virulence. <i>Trends in Microbiology</i> , 2008, 16, 261-268.	7.7	126
68	Reductive Evolution of the Mitochondrial Processing Peptidases of the Unicellular Parasites <i>Trichomonas vaginalis</i> and <i>Giardia intestinalis</i> . <i>PLoS Pathogens</i> , 2008, 4, e1000243.	4.7	56
69	Frataxin, a Conserved Mitochondrial Protein, in the Hydrogenosome of <i>Trichomonas vaginalis</i> . <i>Eukaryotic Cell</i> , 2007, 6, 1431-1438.	3.4	43
70	Draft Genome Sequence of the Sexually Transmitted Pathogen <i>Trichomonas vaginalis</i> . <i>Science</i> , 2007, 315, 207-212.	12.6	731
71	Morphological and Molecular Diversity of the Monocercomonadid Genera <i>Monocercomonas</i> , <i>Hexamastix</i> , and <i>Honigbergiella</i> gen. nov.. <i>Protist</i> , 2007, 158, 365-383.	1.5	28
72	Metabolism of <i>Trichomonad</i> Hydrogenosomes. , 2007, , 113-145.		17

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73	Mitosomes in Parasitic Protists. , 2007, , 201-230.		8
74	Iron- Sulfur Proteins and Iron- Sulfur Cluster Assembly in Organisms with Hydrogenosomes and Mitosomes. , 2007, , 105-133.		19
75	Evolution of the Molecular Machines for Protein Import into Mitochondria. Science, 2006, 313, 314-318.	12.6	487
76	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
77	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
78	Fe-Hydrogenase Maturases in the Hydrogenosomes of Trichomonas vaginalis. Eukaryotic Cell, 2006, 5, 579-586.	3.4	52
79	Cryptic species within the Tetratrichomonas gallinarum species complex revealed by molecular polymorphism. Veterinary Parasitology, 2005, 128, 11-21.	1.8	83
80	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
81	Alternative Pathway of Metronidazole Activation in Trichomonas vaginalis Hydrogenosomes. Antimicrobial Agents and Chemotherapy, 2005, 49, 5033-5036.	3.2	59
82	Siderophore and haem iron use by Tritrichomonas foetus. Microbiology (United Kingdom), 2004, 150, 3979-3987.	1.8	9
83	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
84	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
85	Trichomonas hydrogenosomes contain the NADH dehydrogenase module of mitochondrial complex I. Nature, 2004, 432, 618-622.	27.8	247
86	Critical analysis of the topology and rooting of the parabasalian 16S rRNA tree. Molecular Phylogenetics and Evolution, 2004, 32, 711-723.	2.7	48
87	Malic enzymes of Trichomonas vaginalis: two enzyme families, two distinct origins. Gene, 2004, 329, 81-92.	2.2	37
88	Molecular biology of the amitochondriate parasites, Giardia intestinalis, Entamoeba histolytica and Trichomonas vaginalis. International Journal for Parasitology, 2003, 33, 235-255.	3.1	73
89	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
90	Mitochondrial remnant organelles of Giardia function in iron-sulphur protein maturation. Nature, 2003, 426, 172-176.	27.8	526

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91	Incorporation of iron into <i>Tritrichomonas foetus</i> cell compartments reveals ferredoxin as a major iron-binding protein in hydrogenosomes. <i>Microbiology (United Kingdom)</i> , 2003, 149, 1911-1921.	1.8	19
92	Mitochondrial-type iron-sulfur cluster biosynthesis genes (<i>IscS</i> and <i>IscU</i>) in the apicomplexan <i>Cryptosporidium parvum</i> . <i>Microbiology (United Kingdom)</i> , 2003, 149, 3519-3530.	1.8	86
93	Cattle Pathogen <i>Tritrichomonas foetus</i> (Riedmuller, 1928) and Pig Commensal <i>Tritrichomonas suis</i> (Gruby & Delafond, 1843) Belong to the Same Species. <i>Journal of Eukaryotic Microbiology</i> , 2002, 49, 154-163.	1.7	82
94	Mechanisms of in vitro development of resistance to metronidazole in <i>Trichomonas vaginalis</i> . <i>Microbiology (United Kingdom)</i> , 2002, 148, 2467-2477.	1.8	78
95	Mitochondrial Type Iron-Sulfur Cluster Assembly in the Amitochondriate Eukaryotes <i>Trichomonas vaginalis</i> and <i>Giardia intestinalis</i> , as Indicated by the Phylogeny of <i>IscS</i> . <i>Molecular Biology and Evolution</i> , 2001, 18, 1919-1928.	8.9	166
96	Iron-induced changes in pyruvate metabolism of <i>Tritrichomonas foetus</i> and involvement of iron in expression of hydrogenosomal proteins. <i>Microbiology (United Kingdom)</i> , 2001, 147, 53-62.	1.8	53
97	Iron enhancement of experimental infection of mice by <i>Tritrichomonas foetus</i> . <i>Parasitology Research</i> , 1999, 85, 692-699.	1.6	17
98	More on Iron Acquisition by Parasitic Protozoa. <i>Parasitology Today</i> , 1999, 15, 207.	3.0	5
99	The Host-Protein-Independent Iron Uptake by <i>Tritrichomonas foetus</i> . <i>Experimental Parasitology</i> , 1998, 90, 155-163.	1.2	21
100	Characterization of Trichomonad Species and Strains by PCR Fingerprinting. <i>Journal of Eukaryotic Microbiology</i> , 1997, 44, 545-552.	1.7	60
101	<i>Tritrichomonas foetus</i> : Iron Acquisition from Lactoferrin and Transferrin. <i>Experimental Parasitology</i> , 1996, 83, 216-228.	1.2	62
102	The contribution of the arginine dihydrolase pathway to energy metabolism by <i>Trichomonas vaginalis</i> . <i>Molecular and Biochemical Parasitology</i> , 1996, 78, 117-125.	1.1	47
103	In Vitro Induced Anaerobic Resistance to Metronidazole In <i>Trichomonas Vaginalis</i> . <i>Journal of Eukaryotic Microbiology</i> , 1993, 40, 262-269.	1.7	74