Markus J Tamas

List of Publications by Year
in descending order

58 papers	3,886 citations	147566 31 h-index	168136 53 g-index
64 all docs	64 docs citations	64 times ranked	4247 citing authors

#	Article	IF	Citations
1	A subgroup of plant aquaporins facilitate the bi-directional diffusion of As(OH)3 and Sb(OH)3across membranes. BMC Biology, 2008, 6, 26.	1.7	379
2	Fps1p controls the accumulation and release of the compatible solute glycerol in yeast osmoregulation. Molecular Microbiology, 1999, 31, 1087-1104.	1.2	357
3	Heavy Metals and Metalloids As a Cause for Protein Misfolding and Aggregation. Biomolecules, 2014, 4, 252-267.	1.8	316
4	The glycerol channel Fps1p mediates the uptake of arsenite and antimonite in Saccharomyces cerevisiae. Molecular Microbiology, 2001, 40, 1391-1401.	1.2	306
5	How<i>Saccharomyces cerevisiae</i>copes with toxic metals and metalloids. FEMS Microbiology Reviews, 2010, 34, 925-951.	3.9	254
6	The MAPK Hog1p Modulates Fps1p-dependent Arsenite Uptake and Tolerance in Yeast. Molecular Biology of the Cell, 2006, 17, 4400-4410.	0.9	177
7	The Saccharomyces cerevisiae Sko1p transcription factor mediates HOG pathway-dependent osmotic regulation of a set of genes encoding enzymes implicated in protection from oxidative damage. Molecular Microbiology, 2001, 40, 1067-1083.	1.2	161
8	Arsenite interferes with protein folding and triggers formation of protein aggregates in yeast. Journal of Cell Science, 2012, 125, 5073-83.	1.2	121
9	Distinct stress conditions result in aggregation of proteins with similar properties. Scientific Reports, 2016, 6, 24554.	1.6	117
10	Quantitative transcriptome, proteome, and sulfur metabolite profiling of theSaccharomyces cerevisiaeresponse to arsenite. Physiological Genomics, 2007, 30, 35-43.	1.0	109
11	Genetic basis of arsenite and cadmium tolerance in Saccharomyces cerevisiae. BMC Genomics, 2009, 10, 105.	1.2	100
12	A Short Regulatory Domain Restricts Glycerol Transport through Yeast Fps1p. Journal of Biological Chemistry, 2003, 278, 6337-6345.	1.6	87
13	Transcriptional Activation of Metalloid Tolerance Genes inSaccharomyces cerevisiaeRequires the AP-1â€“like Proteins Yap1p and Yap8p. Molecular Biology of the Cell, 2004, 15, 2049-2060.	0.9	84
14	Stimulation of the yeast high osmolarity glycerol (HOG) pathway: evidence for a signal generated by a change in turgor rather than by water stress. FEBS Letters, 2000, 472, 159-165.	1.3	81
15	Mechanisms involved in metalloid transport and tolerance acquisition. Current Genetics, 2001, 40, 2-12.	0.8	65
16	Yeast reveals unexpected roles and regulatory features of aquaporins and aquaglyceroporins. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 1482-1491.	1.1	59
17	Molecular and physiological characterization of the NAD-dependent glycerol 3-phosphate dehydrogenase in the filamentous fungus Aspergillus nidulans. Molecular Microbiology, 2001, 39, 145-157.	1.2	58
18	Determination of primary sequence specificity of <i>Arabidopsis</i> MAPKs MPK3 and MPK6 leads to identification of new substrates. Biochemical Journal, 2012, 446, 271-278.	1.7	58

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19	Cadmium Causes Misfolding and Aggregation of Cytosolic Proteins in Yeast. Molecular and Cellular Biology, 2017, 37, .	1.1	58
20	A Regulatory Domain in the C-terminal Extension of the Yeast Glycerol Channel Fps1p. Journal of Biological Chemistry, 2004, 279, 14954-14960.	1.6	54
21	Evolutionary Forces Act on Promoter Length: Identification of Enriched Cis-Regulatory Elements. Molecular Biology and Evolution, 2009, 26, 1299-1307.	3.5	53
22	Modulation of <i>Leishmania major</i> aquaglyceroporin activity by a mitogenâ€activated protein kinase. Molecular Microbiology, 2012, 85, 1204-1218.	1.2	52
23	Misfolding and aggregation of nascent proteins: a novel mode of toxic cadmium action in vivo. Current Genetics, 2018, 64, 177-181.	0.8	52
24	Metalloid tolerance based on phytochelatins is not functionally equivalent to the arsenite transporter Acr3p. Biochemical and Biophysical Research Communications, 2003, 304, 293-300.	1.0	51
25	Glutathione serves an extracellular defence function to decrease arsenite accumulation and toxicity in yeast. Molecular Microbiology, 2012, 84, 1177-1188.	1.2	48
26	Amplification of the CUP1 gene is associated with evolution of copper tolerance in Saccharomyces cerevisiae. Microbiology (United Kingdom), 2012, 158, 2325-2335.	0.7	47
27	Arsenic Transport in Prokaryotes and Eukaryotic Microbes. Advances in Experimental Medicine and Biology, 2010, 679, 47-55.	0.8	44
28	Arsenic Directly Binds to and Activates the Yeast AP-1-Like Transcription Factor Yap8. Molecular and Cellular Biology, 2016, 36, 913-922.	1.1	42
29	Regulation of the arsenic-responsive transcription factor Yap8p involves the ubiquitin-proteasome pathway. Journal of Cell Science, 2007, 120, 256-264.	1.2	37
30	Global analysis of protein aggregation in yeast during physiological conditions and arsenite stress. Biology Open, 2014, 3, 913-923.	0.6	36
31	Characterization of the DNA-binding motif of the arsenic-responsive transcription factor Yap8p. Biochemical Journal, 2008, 415, 467-475.	1.7	35
32	Identification of residues controlling transport through the yeast aquaglyceroporin Fps1 using a genetic screen. FEBS Journal, 2004, 271, 771-779.	0.2	32
33	Probing Conserved Regions of the Cytoplasmic LOOP1 Segment Linking Transmembrane Segments 2 and 3 of the Saccharomyces cerevisiae Plasma Membrane H+-ATPase. Journal of Biological Chemistry, 1996, 271, 25438-25445.	1.6	28
34	Nuclear envelope budding is a response to cellular stress. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	28
35	The osmotic stress response of Saccharomyces cerevisiae. , 2003, , 121-200.		27
36	Mechanisms of toxic metal tolerance in yeast. Topics in Current Genetics, 2005, , 395-454.	0.7	27

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37	Mitogen-Activated Protein Kinase Hog1 Mediates Adaptation to G₁Checkpoint Arrest during Arsenite and Hyperosmotic Stress. Eukaryotic Cell, 2008, 7, 1309-1317.	3.4	27
38	Design, Synthesis, and Characterization of a Highly Effective Hog1 Inhibitor: A Powerful Tool for Analyzing MAP Kinase Signaling in Yeast. PLoS ONE, 2011, 6, e20012.	1.1	23
39	The mitogenâ€activated protein kinase Slt2 modulates arsenite transport through the aquaglyceroporin Fps1. FEBS Letters, 2016, 590, 3649-3659.	1.3	21
40	Sequence-specific dynamics of DNA response elements and their flanking sites regulate the recognition by AP-1 transcription factors. Nucleic Acids Research, 2021, 49, 9280-9293.	6.5	21
41	HwHog1 kinase activity is crucial for survival of Hortaea werneckii in extremely hyperosmolar environments. Fungal Genetics and Biology, 2015, 74, 45-58.	0.9	18
42	Mathematical modelling of arsenic transport, distribution and detoxification processes in yeast. Molecular Microbiology, 2014, 92, 1343-1356.	1.2	15
43	Yeast Aquaglyceroporins Use the Transmembrane Core to Restrict Glycerol Transport. Journal of Biological Chemistry, 2012, 287, 23562-23570.	1.6	14
44	Cellular and molecular mechanisms of antimony transport, toxicity and resistance. Environmental Chemistry, 2016, 13, 955.	0.7	13
45	Editorial: Molecular Mechanisms of Metalloid Transport, Toxicity and Tolerance. Frontiers in Cell and Developmental Biology, 2018, 6, 99.	1.8	13
46	Saccharomyces cerevisiae as a Model Organism for Elucidating Arsenic Tolerance Mechanisms. , 2011, , 87-112.		13
47	Effects of the Toxic Metals Arsenite and Cadmium on Î±-Synuclein Aggregation In Vitro and in Cells. International Journal of Molecular Sciences, 2021, 22, 11455.	1.8	13
48	Genome-wide imaging screen uncovers molecular determinants of arsenite-induced protein aggregation and toxicity. Journal of Cell Science, 2021, 134, .	1.2	11
49	Disentangling genetic and epigenetic determinants of ultrafast adaptation. Molecular Systems Biology, 2016, 12, 892.	3.2	9
50	Positional Scanning Peptide Libraries for Kinase Substrate Specificity Determinations: Straightforward and Reproducible Synthesis Using Pentafluorophenyl Esters. ACS Combinatorial Science, 2010, 12, 733-742.	3.3	8
51	Elucidating the response of Kluyveromyces lactis to arsenite and peroxide stress and the role of the transcription factor KlYap8. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2014, 1839, 1295-1306.	0.9	8
52	The ancillary N-terminal region of the yeast AP-1 transcription factor Yap8 contributes to its DNA binding specificity. Nucleic Acids Research, 2020, 48, 5426-5441.	6.5	7
53	Application of a peptide-based assay to characterize inhibitors targeting protein kinases from yeast. Current Genetics, 2014, 60, 193-200.	0.8	6
54	Etp1 confers arsenite resistance by affecting <i>ACR3</i> expression. FEMS Yeast Research, 2022, , .	1.1	1

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55	Identification of novel arsenic resistance genes in yeast. MicrobiologyOpen, 2022, 11, .	1.2	1
56	An Investigation of the Possible Existence of Homologues of FPS1, a Glycerol Facilitator of Saccharomyces Cerevisiae, in the Osmotolerant Yeast Zygosaccharomyces Rouxii. , 2000, , 393-403.		0
57	Function and Regulation of the Yeast MIP Glycerol Export Channel Fps1p. , 2000, , 423-430.		0
58	Physical, genetic and functional interactions between the eisosome protein Pil1 and the MBOAT O-acyltransferase Gup1. FEMS Yeast Research, 2021, 21, .	1.1	0