Libuse Vachova

List of Publications by Year
in descending order

70 papers	6,528 citations	304368 22 h-index	110170 64 g-index
71 all docs	71 docs citations	71 times ranked	15875 citing authors

#	Article	IF	Citations
1	Effects of abolishing Whi2 on the proteome and nitrogen catabolite repression-sensitive protein production. G3: Genes, Genomes, Genetics, 2022, 12, .	0.8	0
2	Effects of Abolishing Whi2 on Nitrogen Catabolite Repressionâ€Sensitive GATAâ€Factor Localization and Protein Production. FASEB Journal, 2022, 36, .	0.2	0
3	Analysis of Mitochondrial Retrograde Signaling in Yeast Model Systems. Methods in Molecular Biology, 2021, 2276, 87-102.	0.4	3
4	Mitochondrial Retrograde Signaling Contributes to Metabolic Differentiation in Yeast Colonies. International Journal of Molecular Sciences, 2021, 22, 5597.	1.8	4
5	Spatially structured yeast communities: Understanding structure formation and regulation with omics tools. Computational and Structural Biotechnology Journal, 2021, 19, 5613-5621.	1.9	7
6	The Whi2p-Psr1p/Psr2p complex regulates interference competition and expansion of cells with competitive advantage in yeast colonies. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15123-15131.	3.3	6
7	Cell Distribution within Yeast Colonies and Colony Biofilms: How Structure Develops. International Journal of Molecular Sciences, 2020, 21, 3873.	1.8	6
8	Glucose, Cyc8p and Tup1p regulate biofilm formation and dispersal in wild Saccharomyces cerevisiae. Npj Biofilms and Microbiomes, 2020, 6, 7.	2.9	7
9	Diverse roles of Tup1p and Cyc8p transcription regulators in the development of distinct types of yeast populations. Current Genetics, 2019, 65, 147-151.	0.8	5
10	An optimized FAIRE procedure for low cell numbers in yeast. Yeast, 2018, 35, 507-512.	0.8	4
11	How structured yeast multicellular communities live, age and die?. FEMS Yeast Research, 2018, 18, .	1.1	44
12	Transcriptome Remodeling of Differentiated Cells during Chronological Ageing of Yeast Colonies: New Insights into Metabolic Differentiation. Oxidative Medicine and Cellular Longevity, 2018, 2018, 1-17.	1.9	12
13	Cyc8p and Tup1p transcription regulators antagonistically regulate Flo11p expression and complexity of yeast colony biofilms. PLoS Genetics, 2018, 14, e1007495.	1.5	17
14	Comment on â€œSterilizing immunity in the lung relies on targeting fungal apoptosis-like programmed cell deathâ€. Science, 2018, 360, .	6.0	10
15	Long Noncoding RNAs in Yeast Cells and Differentiated Subpopulations of Yeast Colonies and Biofilms. Oxidative Medicine and Cellular Longevity, 2018, 2018, 1-12.	1.9	3
16	Multilevel regulation of an Î±-arrestin by glucose depletion controls hexose transporter endocytosis. Journal of Cell Biology, 2017, 216, 1811-1831.	2.3	51
17	Metabolic differentiation of surface and invasive cells of yeast colony biofilms revealed by gene expression profiling. BMC Genomics, 2017, 18, 814.	1.2	18
18	Yeast cell differentiation: Lessons from pathogenic and non-pathogenic yeasts. Seminars in Cell and Developmental Biology, 2016, 57, 110-119.	2.3	40

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19	Cellular localization of Sun4p and its interaction with proteins in the yeast birth scar. Cell Cycle, 2016, 15, 1898-1907.	1.3	8
20	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	4.3	4,701
21	Mitochondria in aging cell differentiation. Aging, 2016, 8, 1287-1288.	1.4	8
22	Divergent branches of mitochondrial signaling regulate specific genes and the viability of specialized cell types of differentiated yeast colonies. Oncotarget, 2016, 7, 15299-15314.	0.8	21
23	New biosensor for detection of copper ions in water based on immobilized genetically modified yeast cells. Biosensors and Bioelectronics, 2015, 72, 160-167.	5.3	67
24	Longevity of U cells of differentiated yeast colonies grown on respiratory medium depends on active glycolysis. Cell Cycle, 2015, 14, 3488-3497.	1.3	15
25	Global changes in gene expression associated with phenotypic switching of wild yeast. BMC Genomics, 2014, 15, 136.	1.2	23
26	Aging and differentiation in yeast populations: elders with different properties and functions. FEMS Yeast Research, 2014, 14, 96-108.	1.1	38
27	The transport of carboxylic acids and important role of the Jen1p transporter during the development of yeast colonies. Biochemical Journal, 2013, 454, 551-558.	1.7	8
28	SUN Family Proteins Sun4p, Uth1p and Sim1p Are Secreted from Saccharomyces cerevisiae and Produced Dependently on Oxygen Level. PLoS ONE, 2013, 8, e73882.	1.1	15
29	Rapidly Developing Yeast Microcolonies Differentiate in a Similar Way to Aging Giant Colonies. Oxidative Medicine and Cellular Longevity, 2013, 2013, 1-9.	1.9	20
30	The bZIP Transcription Factor Rca1p Is a Central Regulator of a Novel CO2 Sensing Pathway in Yeast. PLoS Pathogens, 2012, 8, e1002485.	2.1	46
31	Cell Differentiation within a Yeast Colony: Metabolic and Regulatory Parallels with a Tumor-Affected Organism. Molecular Cell, 2012, 46, 436-448.	4.5	112
32	Ato protein interactions in yeast plasma membrane revealed by fluorescence lifetime imaging (FLIM). Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 2126-2134.	1.4	9
33	Yeast biofilm colony as an orchestrated multicellular organism. Communicative and Integrative Biology, 2012, 5, 203-205.	0.6	20
34	Reactive Oxygen Species in the Signaling and Adaptation of Multicellular Microbial Communities. Oxidative Medicine and Cellular Longevity, 2012, 2012, 1-13.	1.9	130
35	In Vivo Determination of Organellar pH Using a Universal Wavelength-Based Confocal Microscopy Approach. PLoS ONE, 2012, 7, e33229.	1.1	8
36	Yeast Colonies: A Model for Studies of Aging, Environmental Adaptation, and Longevity. Oxidative Medicine and Cellular Longevity, 2012, 2012, 1-8.	1.9	57

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37	Communication and Differentiation in the Development of Yeast Colonies. , 2012, , 141-154.		0
38	Aging and longevity of yeast colony populations: metabolic adaptation and differentiation. Biochemical Society Transactions, 2011, 39, 1471-1475.	1.6	14
39	Flo11p, drug efflux pumps, and the extracellular matrix cooperate to form biofilm yeast colonies. Journal of Cell Biology, 2011, 194, 679-687.	2.3	83
40	Role of distinct dimorphic transitions in territory colonizing and formation of yeast colony architecture. Environmental Microbiology, 2010, 12, 264-277.	1.8	39
41	How to survive within a yeast colony. Communicative and Integrative Biology, 2010, 3, 198-200.	0.6	15
42	General factors important for the formation of structured biofilm-like yeast colonies. Fungal Genetics and Biology, 2010, 47, 1012-1022.	0.9	59
43	Yeast Colony Survival Depends on Metabolic Adaptation and Cell Differentiation Rather Than on Stress Defense. Journal of Biological Chemistry, 2009, 284, 32572-32581.	1.6	48
44	Putative role for ABC multidrug exporters in yeast quorum sensing. FEBS Letters, 2009, 583, 1107-1113.	1.3	34
45	Metabolic diversification of cells during the development of yeast colonies. Environmental Microbiology, 2009, 11, 494-504.	1.8	45
46	Architecture of developing multicellular yeast colony: spatioâ€temporal expression of Ato1p ammonium exporter. Environmental Microbiology, 2009, 11, 1866-1877.	1.8	55
47	Synchronous plasma membrane electrochemical potential oscillations during yeast colony development and aging. Molecular Membrane Biology, 2009, 26, 228-235.	2.0	16
48	Association of putative ammonium exporters Ato with detergent-resistant compartments of plasma membrane during yeast colony development: pH affects Ato1p localisation in patches. Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 1170-1178.	1.4	22
49	Caspases in yeast apoptosis-like death: facts and artefacts. FEMS Yeast Research, 2007, 7, 12-21.	1.1	56
50	Life within a community: benefit to yeast long-term survival. FEMS Microbiology Reviews, 2006, 30, 806-824.	3.9	101
51	Physiological regulation of yeast cell death in multicellular colonies is triggered by ammonia. Journal of Cell Biology, 2005, 169, 711-717.	2.3	173
52	Sok2p Transcription Factor Is Involved in Adaptive Program Relevant for Long Term Survival of Saccharomyces cerevisiae Colonies. Journal of Biological Chemistry, 2004, 279, 37973-37981.	1.6	39
53	Single-cell analysis of yeast, mammalian cells, and fungal spores with a microfluidic pressure-driven chip-based system. , 2004, 59A, 246-253.		46
54	Role of strategic cysteine residues in oxidative damage to the yeast plasma membrane H+-ATPase caused by Fe- and Cu-containing fenton reagents. Folia Microbiologica, 2003, 48, 589-596.	1.1	6

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55	Ammonia signaling in yeast colony formation. International Review of Cytology, 2003, 225, 229-272.	6.2	31
56	ATP-Dependent proteinases in bacteria. Folia Microbiologica, 2002, 47, 203-212.	1.1	15
57	Viability and formation of conjugated dienes in plasma membrane lipids ofSaccharomyces cerevisiae, schizosaccharomyces pombe, rhodotorula glutinis andCandida albicans exposed to hydrophilic, amphiphilic and hydrophobic pro-oxidants. Folia Microbiologica, 2002, 47, 145-151.	1.1	20
58	Differences in the Regulation of the Intracellular Ca2+-Dependent Serine Proteinase Activity Between Bacillus subtilis and B. megaterium. Current Microbiology, 2001, 42, 178-183.	1.0	4
59	In Vivo and In Vitro Function of the Intracellular Proteolytic Apparatus in Nongrowing Bacillus megaterium Under Heat Stress. Current Microbiology, 1999, 38, 86-91.	1.0	3
60	Opposite regulation by temperature of the intracellular Ca2+-dependent serine proteinase in growing and nongrowingBacillus megaterium. Folia Microbiologica, 1997, 42, 299-302.	1.1	3
61	Activation of the intracellular Ca2 â€dependent serine protease ISP1 of Bacillus megaterium by purification of by high Ca2 concentrations. IUBMB Life, 1996, 40, 947-954.	1.5	0
62	Dependence of intracellular proteolytic enzymes in growing and sporulating cells ofBacillus megaterium on Ca2+ concentration. Folia Microbiologica, 1993, 38, 201-204.	1.1	3
63	Netropsin suppresses the rise of activity of an intracellular proteolytic system in sporulatingBacillus megaterium. Current Microbiology, 1993, 26, 287-292.	1.0	10
64	External factors involved in the regulation of synthesis of an extracellular proteinase in Bacillus megaterium: effect of temperature. Applied Microbiology and Biotechnology, 1991, 35, 352-357.	1.7	16
65	Effect of actinomycin D on viability, sporulation and nucleotide pool ofBacillus megaterium. Folia Microbiologica, 1990, 35, 190-199.	1.1	2
66	Protein degradation during sporulation ofBacillus megaterium: Effect of actinomycin D. Current Microbiology, 1990, 21, 289-293.	1.0	6
67	External factors involved in the regulation of an extracellular proteinase synthesis in Bacillus megaterium. Applied Microbiology and Biotechnology, 1987, 26, 373-377.	1.7	6
68	Mutants ofBacillus megaterium with altered synthesis of an exocellular neutral proteinase. Folia Microbiologica, 1984, 29, 99-103.	1.1	14
69	Turnover of proteins in asporogenicBacillus megaterium. Evidence for a gradual decrease of the turnover rate. Folia Microbiologica, 1980, 25, 185-190.	1.1	1
70	Activity of membrane ATPase during inhibition and reversion ofEscherichia coli cell division. Folia Microbiologica, 1974, 19, 466-473.	1.1	0