

Libuse Vachova

List of Publications by Year in descending order

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Version: 2024-02-01

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	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	4.3	4,701
2	Physiological regulation of yeast cell death in multicellular colonies is triggered by ammonia. <i>Journal of Cell Biology</i> , 2005, 169, 711-717.	2.3	173
3	Reactive Oxygen Species in the Signaling and Adaptation of Multicellular Microbial Communities. <i>Oxidative Medicine and Cellular Longevity</i> , 2012, 2012, 1-13.	1.9	130
4	Cell Differentiation within a Yeast Colony: Metabolic and Regulatory Parallels with a Tumor-Affected Organism. <i>Molecular Cell</i> , 2012, 46, 436-448.	4.5	112
5	Life within a community: benefit to yeast long-term survival. <i>FEMS Microbiology Reviews</i> , 2006, 30, 806-824.	3.9	101
6	Flo11p, drug efflux pumps, and the extracellular matrix cooperate to form biofilm yeast colonies. <i>Journal of Cell Biology</i> , 2011, 194, 679-687.	2.3	83
7	New biosensor for detection of copper ions in water based on immobilized genetically modified yeast cells. <i>Biosensors and Bioelectronics</i> , 2015, 72, 160-167.	5.3	67
8	General factors important for the formation of structured biofilm-like yeast colonies. <i>Fungal Genetics and Biology</i> , 2010, 47, 1012-1022.	0.9	59
9	Yeast Colonies: A Model for Studies of Aging, Environmental Adaptation, and Longevity. <i>Oxidative Medicine and Cellular Longevity</i> , 2012, 2012, 1-8.	1.9	57
10	Caspases in yeast apoptosis-like death: facts and artefacts. <i>FEMS Yeast Research</i> , 2007, 7, 12-21.	1.1	56
11	Architecture of developing multicellular yeast colony: spatio-temporal expression of Ato1p ammonium exporter. <i>Environmental Microbiology</i> , 2009, 11, 1866-1877.	1.8	55
12	Multilevel regulation of an $\hat{1}$ -arrestin by glucose depletion controls hexose transporter endocytosis. <i>Journal of Cell Biology</i> , 2017, 216, 1811-1831.	2.3	51
13	Yeast Colony Survival Depends on Metabolic Adaptation and Cell Differentiation Rather Than on Stress Defense. <i>Journal of Biological Chemistry</i> , 2009, 284, 32572-32581.	1.6	48
14	Single-cell analysis of yeast, mammalian cells, and fungal spores with a microfluidic pressure-driven chip-based system. , 2004, 59A, 246-253.		46
15	The bZIP Transcription Factor Rca1p Is a Central Regulator of a Novel CO ₂ Sensing Pathway in Yeast. <i>PLoS Pathogens</i> , 2012, 8, e1002485.	2.1	46
16	Metabolic diversification of cells during the development of yeast colonies. <i>Environmental Microbiology</i> , 2009, 11, 494-504.	1.8	45
17	How structured yeast multicellular communities live, age and die?. <i>FEMS Yeast Research</i> , 2018, 18, .	1.1	44
18	Yeast cell differentiation: Lessons from pathogenic and non-pathogenic yeasts. <i>Seminars in Cell and Developmental Biology</i> , 2016, 57, 110-119.	2.3	40

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19	Sok2p Transcription Factor Is Involved in Adaptive Program Relevant for Long Term Survival of <i>Saccharomyces cerevisiae</i> Colonies. <i>Journal of Biological Chemistry</i> , 2004, 279, 37973-37981.	1.6	39
20	Role of distinct dimorphic transitions in territory colonizing and formation of yeast colony architecture. <i>Environmental Microbiology</i> , 2010, 12, 264-277.	1.8	39
21	Aging and differentiation in yeast populations: elders with different properties and functions. <i>FEMS Yeast Research</i> , 2014, 14, 96-108.	1.1	38
22	Putative role for ABC multidrug exporters in yeast quorum sensing. <i>FEBS Letters</i> , 2009, 583, 1107-1113.	1.3	34
23	Ammonia signaling in yeast colony formation. <i>International Review of Cytology</i> , 2003, 225, 229-272.	6.2	31
24	Global changes in gene expression associated with phenotypic switching of wild yeast. <i>BMC Genomics</i> , 2014, 15, 136.	1.2	23
25	Association of putative ammonium exporters Ato with detergent-resistant compartments of plasma membrane during yeast colony development: pH affects Ato1p localisation in patches. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007, 1768, 1170-1178.	1.4	22
26	Divergent branches of mitochondrial signaling regulate specific genes and the viability of specialized cell types of differentiated yeast colonies. <i>Oncotarget</i> , 2016, 7, 15299-15314.	0.8	21
27	Viability and formation of conjugated dienes in plasma membrane lipids of <i>Saccharomyces cerevisiae</i> , <i>Schizosaccharomyces pombe</i> , <i>Rhodotorula glutinis</i> and <i>Candida albicans</i> exposed to hydrophilic, amphiphilic and hydrophobic pro-oxidants. <i>Folia Microbiologica</i> , 2002, 47, 145-151.	1.1	20
28	Yeast biofilm colony as an orchestrated multicellular organism. <i>Communicative and Integrative Biology</i> , 2012, 5, 203-205.	0.6	20
29	Rapidly Developing Yeast Microcolonies Differentiate in a Similar Way to Aging Giant Colonies. <i>Oxidative Medicine and Cellular Longevity</i> , 2013, 2013, 1-9.	1.9	20
30	Metabolic differentiation of surface and invasive cells of yeast colony biofilms revealed by gene expression profiling. <i>BMC Genomics</i> , 2017, 18, 814.	1.2	18
31	Cyc8p and Tup1p transcription regulators antagonistically regulate Flo11p expression and complexity of yeast colony biofilms. <i>PLoS Genetics</i> , 2018, 14, e1007495.	1.5	17
32	External factors involved in the regulation of synthesis of an extracellular proteinase in <i>Bacillus megaterium</i> : effect of temperature. <i>Applied Microbiology and Biotechnology</i> , 1991, 35, 352-357.	1.7	16
33	Synchronous plasma membrane electrochemical potential oscillations during yeast colony development and aging. <i>Molecular Membrane Biology</i> , 2009, 26, 228-235.	2.0	16
34	ATP-Dependent proteinases in bacteria. <i>Folia Microbiologica</i> , 2002, 47, 203-212.	1.1	15
35	How to survive within a yeast colony. <i>Communicative and Integrative Biology</i> , 2010, 3, 198-200.	0.6	15
36	SUN Family Proteins Sun4p, Uth1p and Sim1p Are Secreted from <i>Saccharomyces cerevisiae</i> and Produced Dependently on Oxygen Level. <i>PLoS ONE</i> , 2013, 8, e73882.	1.1	15

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37	Longevity of U cells of differentiated yeast colonies grown on respiratory medium depends on active glycolysis. <i>Cell Cycle</i> , 2015, 14, 3488-3497.	1.3	15
38	Mutants of <i>Bacillus megaterium</i> with altered synthesis of an exocellular neutral proteinase. <i>Folia Microbiologica</i> , 1984, 29, 99-103.	1.1	14
39	Aging and longevity of yeast colony populations: metabolic adaptation and differentiation. <i>Biochemical Society Transactions</i> , 2011, 39, 1471-1475.	1.6	14
40	Transcriptome Remodeling of Differentiated Cells during Chronological Ageing of Yeast Colonies: New Insights into Metabolic Differentiation. <i>Oxidative Medicine and Cellular Longevity</i> , 2018, 2018, 1-17.	1.9	12
41	Netropsin suppresses the rise of activity of an intracellular proteolytic system in sporulating <i>Bacillus megaterium</i> . <i>Current Microbiology</i> , 1993, 26, 287-292.	1.0	10
42	Comment on "Sterilizing immunity in the lung relies on targeting fungal apoptosis-like programmed cell death". <i>Science</i> , 2018, 360, .	6.0	10
43	Ato protein interactions in yeast plasma membrane revealed by fluorescence lifetime imaging (FLIM). <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 2126-2134.	1.4	9
44	In Vivo Determination of Organellar pH Using a Universal Wavelength-Based Confocal Microscopy Approach. <i>PLoS ONE</i> , 2012, 7, e33229.	1.1	8
45	The transport of carboxylic acids and important role of the Jen1p transporter during the development of yeast colonies. <i>Biochemical Journal</i> , 2013, 454, 551-558.	1.7	8
46	Cellular localization of Sun4p and its interaction with proteins in the yeast birth scar. <i>Cell Cycle</i> , 2016, 15, 1898-1907.	1.3	8
47	Mitochondria in aging cell differentiation. <i>Aging</i> , 2016, 8, 1287-1288.	1.4	8
48	Glucose, Cyc8p and Tup1p regulate biofilm formation and dispersal in wild <i>Saccharomyces cerevisiae</i> . <i>Npj Biofilms and Microbiomes</i> , 2020, 6, 7.	2.9	7
49	Spatially structured yeast communities: Understanding structure formation and regulation with omics tools. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 5613-5621.	1.9	7
50	External factors involved in the regulation of an extracellular proteinase synthesis in <i>Bacillus megaterium</i> . <i>Applied Microbiology and Biotechnology</i> , 1987, 26, 373-377.	1.7	6
51	Protein degradation during sporulation of <i>Bacillus megaterium</i> : Effect of actinomycin D. <i>Current Microbiology</i> , 1990, 21, 289-293.	1.0	6
52	Role of strategic cysteine residues in oxidative damage to the yeast plasma membrane H ⁺ -ATPase caused by Fe- and Cu-containing fenton reagents. <i>Folia Microbiologica</i> , 2003, 48, 589-596.	1.1	6
53	The Whi2p-Psr1p/Psr2p complex regulates interference competition and expansion of cells with competitive advantage in yeast colonies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 15123-15131.	3.3	6
54	Cell Distribution within Yeast Colonies and Colony Biofilms: How Structure Develops. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3873.	1.8	6

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55	Diverse roles of Tup1p and Cyc8p transcription regulators in the development of distinct types of yeast populations. <i>Current Genetics</i> , 2019, 65, 147-151.	0.8	5
56	Differences in the Regulation of the Intracellular Ca ²⁺ -Dependent Serine Proteinase Activity Between <i>Bacillus subtilis</i> and <i>B. megaterium</i> . <i>Current Microbiology</i> , 2001, 42, 178-183.	1.0	4
57	An optimized FAIRE procedure for low cell numbers in yeast. <i>Yeast</i> , 2018, 35, 507-512.	0.8	4
58	Mitochondrial Retrograde Signaling Contributes to Metabolic Differentiation in Yeast Colonies. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5597.	1.8	4
59	Dependence of intracellular proteolytic enzymes in growing and sporulating cells of <i>Bacillus megaterium</i> on Ca ²⁺ concentration. <i>Folia Microbiologica</i> , 1993, 38, 201-204.	1.1	3
60	Opposite regulation by temperature of the intracellular Ca ²⁺ -dependent serine proteinase in growing and nongrowing <i>Bacillus megaterium</i> . <i>Folia Microbiologica</i> , 1997, 42, 299-302.	1.1	3
61	In Vivo and In Vitro Function of the Intracellular Proteolytic Apparatus in Nongrowing <i>Bacillus megaterium</i> Under Heat Stress. <i>Current Microbiology</i> , 1999, 38, 86-91.	1.0	3
62	Long Noncoding RNAs in Yeast Cells and Differentiated Subpopulations of Yeast Colonies and Biofilms. <i>Oxidative Medicine and Cellular Longevity</i> , 2018, 2018, 1-12.	1.9	3
63	Analysis of Mitochondrial Retrograde Signaling in Yeast Model Systems. <i>Methods in Molecular Biology</i> , 2021, 22276, 87-102.	0.4	3
64	Effect of actinomycin D on viability, sporulation and nucleotide pool of <i>Bacillus megaterium</i> . <i>Folia Microbiologica</i> , 1990, 35, 190-199.	1.1	2
65	Turnover of proteins in asporogenic <i>Bacillus megaterium</i> . Evidence for a gradual decrease of the turnover rate. <i>Folia Microbiologica</i> , 1980, 25, 185-190.	1.1	1
66	Activity of membrane ATPase during inhibition and reversion of <i>Escherichia coli</i> cell division. <i>Folia Microbiologica</i> , 1974, 19, 466-473.	1.1	0
67	Activation of the intracellular Ca ²⁺ dependent serine protease ISP1 of <i>Bacillus megaterium</i> by purification of by high Ca ²⁺ concentrations. <i>IUBMB Life</i> , 1996, 40, 947-954.	1.5	0
68	Communication and Differentiation in the Development of Yeast Colonies. , 2012, , 141-154.		0
69	Effects of abolishing <i>Whi2</i> on the proteome and nitrogen catabolite repression-sensitive protein production. <i>G3: Genes, Genomes, Genetics</i> , 2022, 12, .	0.8	0
70	Effects of Abolishing <i>Whi2</i> on Nitrogen Catabolite Repression Sensitive GATA Factor Localization and Protein Production. <i>FASEB Journal</i> , 2022, 36, .	0.2	0