

Zdena Palková

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

7,481
citations

159358

30
h-index

88477

70
g-index

79
all docs

79
docs citations

79
times ranked

16578
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	Ammonia mediates communication between yeast colonies. <i>Nature</i> , 1997, 390, 532-536.	13.7	194
3	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
4	Caveolae Are Involved in the Trafficking of Mouse Polyomavirus Virions and Artificial VP1 Pseudocapsids toward Cell Nuclei. <i>Journal of Virology</i> , 2001, 75, 10880-10891.	1.5	151
5	Ammonia Pulses and Metabolic Oscillations Guide Yeast Colony Development. <i>Molecular Biology of the Cell</i> , 2002, 13, 3901-3914.	0.9	131
6	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
7	Domestication of wild <i>Saccharomyces cerevisiae</i> is accompanied by changes in gene expression and colony morphology. <i>Molecular Microbiology</i> , 2003, 47, 745-754.	1.2	124
8	Multicellular microorganisms: laboratory versus nature. <i>EMBO Reports</i> , 2004, 5, 470-476.	2.0	123
9	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
10	Life within a community: benefit to yeast long-term survival. <i>FEMS Microbiology Reviews</i> , 2006, 30, 806-824.	3.9	101
11	Polyoma Virus Pseudocapsids as Efficient Carriers of Heterologous DNA into Mammalian Cells. <i>Human Gene Therapy</i> , 1995, 6, 297-306.	1.4	94
12	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
13	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
14	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
15	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
16	Caspases in yeast apoptosis-like death: facts and artefacts. <i>FEMS Yeast Research</i> , 2007, 7, 12-21.	1.1	56
17	Architecture of developing multicellular yeast colony: spatio-temporal expression of Ato1p ammonium exporter. <i>Environmental Microbiology</i> , 2009, 11, 1866-1877.	1.8	55
18	Multilevel regulation of an $\hat{\epsilon}$ -arrestin by glucose depletion controls hexose transporter endocytosis. <i>Journal of Cell Biology</i> , 2017, 216, 1811-1831.	2.3	51

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19	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
20	Single-cell analysis of yeast, mammalian cells, and fungal spores with a microfluidic pressure-driven chip-based system. , 2004, 59A, 246-253.		46
21	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
22	Metabolic diversification of cells during the development of yeast colonies. <i>Environmental Microbiology</i> , 2009, 11, 494-504.	1.8	45
23	How structured yeast multicellular communities live, age and die?. <i>FEMS Yeast Research</i> , 2018, 18, .	1.1	44
24	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
25	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
26	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
27	The morphology of <i>Saccharomyces cerevisiae</i> colonies is affected by cell adhesion and the budding pattern. <i>Research in Microbiology</i> , 2005, 156, 921-931.	1.0	38
28	Aging and differentiation in yeast populations: elders with different properties and functions. <i>FEMS Yeast Research</i> , 2014, 14, 96-108.	1.1	38
29	Putative role for ABC multidrug exporters in yeast quorum sensing. <i>FEBS Letters</i> , 2009, 583, 1107-1113.	1.3	34
30	Ammonia signaling in yeast colony formation. <i>International Review of Cytology</i> , 2003, 225, 229-272.	6.2	31
31	Differentiated Gene Expression in Cells within Yeast Colonies. <i>Experimental Cell Research</i> , 2001, 271, 296-304.	1.2	30
32	Analysis of mouse polyomavirus mutants with lesions in the minor capsid proteins. <i>Journal of General Virology</i> , 2002, 83, 2309-2319.	1.3	30
33	Interactions of heterologous DNA with polyomavirus major structural protein, VP1. <i>FEBS Letters</i> , 1999, 445, 119-125.	1.3	29
34	Amino acids control ammonia pulses in yeast colonies. <i>Biochemical and Biophysical Research Communications</i> , 2002, 294, 962-967.	1.0	26
35	Production of polyomavirus structural protein VP1 in yeast cells and its interaction with cell structures. <i>FEBS Letters</i> , 2000, 478, 281-289.	1.3	25
36	Global changes in gene expression associated with phenotypic switching of wild yeast. <i>BMC Genomics</i> , 2014, 15, 136.	1.2	23

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37	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
38	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
39	Yeast biofilm colony as an orchestrated multicellular organism. <i>Communicative and Integrative Biology</i> , 2012, 5, 203-205.	0.6	20
40	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
41	Comparative analyses of RNAs using Agilent RNA 6000 Nano Assay and agarose gel electrophoresis. <i>FEMS Yeast Research</i> , 2003, 4, 119-122.	1.1	18
42	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
43	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
44	Synchronous plasma membrane electrochemical potential oscillations during yeast colony development and aging. <i>Molecular Membrane Biology</i> , 2009, 26, 228-235.	2.0	16
45	The polyomavirus major capsid protein VP1 interacts with the nuclear matrix regulatory protein YY1. <i>FEBS Letters</i> , 2000, 467, 359-364.	1.3	15
46	How to survive within a yeast colony. <i>Communicative and Integrative Biology</i> , 2010, 3, 198-200.	0.6	15
47	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
48	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
49	Aging and longevity of yeast colony populations: metabolic adaptation and differentiation. <i>Biochemical Society Transactions</i> , 2011, 39, 1471-1475.	1.6	14
50	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
51	Comment on "Sterilizing immunity in the lung relies on targeting fungal apoptosis-like programmed cell death". <i>Science</i> , 2018, 360, .	6.0	10
52	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
53	In Vivo Determination of Organellar pH Using a Universal Wavelength-Based Confocal Microscopy Approach. <i>PLoS ONE</i> , 2012, 7, e33229.	1.1	8
54	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

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55	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
56	Mitochondria in aging cell differentiation. <i>Aging</i> , 2016, 8, 1287-1288.	1.4	8
57	Microisolation of yeast nucleic acids on the microtitre plate without using lytic enzymes. <i>Nucleic Acids Research</i> , 1991, 19, 5083-5083.	6.5	7
58	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
59	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
60	Electrofusion of oriented <i>Schizosaccharomyces pombe</i> cells through apical protoplast-protuberances. <i>Biochemical and Biophysical Research Communications</i> , 1990, 166, 113-118.	1.0	6
61	Point mutation in calcium-binding domain of mouse polyomavirus VP1 protein does not prevent virus-like particle formation, but changes VP1 interactions with cell structures. <i>FEMS Yeast Research</i> , 2005, 5, 331-340.	1.1	6
62	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
63	Cell Distribution within Yeast Colonies and Colony Biofilms: How Structure Develops. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3873.	1.8	6
64	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
65	Mouse polyomavirus large T antigen inhibits cell growth and alters cell and colony morphology in <i>Saccharomyces cerevisiae</i> . <i>FEBS Letters</i> , 2003, 555, 268-273.	1.3	4
66	An optimized FAIRE procedure for low cell numbers in yeast. <i>Yeast</i> , 2018, 35, 507-512.	0.8	4
67	Mitochondrial Retrograde Signaling Contributes to Metabolic Differentiation in Yeast Colonies. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5597.	1.8	4
68	Isolation and characterization of the dsRNA virus from the yeast <i>Endomyces magnusii</i> . <i>FEMS Microbiology Letters</i> , 1994, 116, 231-236.	0.7	4
69	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
70	Analysis of Mitochondrial Retrograde Signaling in Yeast Model Systems. <i>Methods in Molecular Biology</i> , 2021, 2276, 87-102.	0.4	3
71	Application of Killer Toxins in Stepwise Selection of Hybrids and Cybrids Obtained by Induced Protoplast Fusion. , 1996, 53, 331-338.		2
72	Techniques for Colony DNA Hybridization and Protein Immunoassays for a Broad Spectrum of Yeast Genera. <i>BioTechniques</i> , 1996, 21, 982-986.	0.8	1

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73	Rhodamine B Assay for Estimating Activity of Killer Toxins Permeabilizing Cytoplasmic Membranes. , 1996, 53, 319-324.		1
74	Killer Plaque Technique for Selecting Hybrids and Cybrids Obtained by Induced Protoplast Fusion. , 1996, 53, 339-342.		1
75	Nystatin-Rhodamine B Assay for Estimating Activity of Killer Toxin from <i>Kluyveromyces lactis</i> . , 1996, 53, 325-330.		1
76	Editorial: Yeast Differentiation: From Cell-to-Cell Heterogeneity to Replicative Aging and Regulated Cell Death. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 823447.	1.8	1
77	Communication and Differentiation in the Development of Yeast Colonies. , 2012, , 141-154.		0
78	Effects of abolishing Whi2 on the proteome and nitrogen catabolite repression-sensitive protein production. <i>G3: Genes, Genomes, Genetics</i> , 2022, 12, .	0.8	0
79	Effects of Abolishing Whi2 on Nitrogen Catabolite Repression-Sensitive GATA-Factor Localization and Protein Production. <i>FASEB Journal</i> , 2022, 36, .	0.2	0