James B Konopka

List of Publications by Year
in descending order

97	5,984	81900 39	74163 75
papers	citations	h-index	g-index
103	103	103	4715
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An alteration of the human c-abl protein in K562 leukemia cells unmasks associated tyrosine kinase activity. Cell, 1984, 37, 1035-1042.	28.9	884
2	Conjugation in Saccharomyces cerevisiae. Annual Review of Cell Biology, 1988, 4, 429-455.	26.1	263
3	Cell lines and clinical isolates derived from Ph1-positive chronic myelogenous leukemia patients express c-abl proteins with a common structural alteration.. Proceedings of the National Academy of Sciences of the United States of America, 1985, 82, 1810-1814.	7.1	238
4	The C-terminus of the S. cerevisiae Î±-pheromone receptor mediates an adaptive response to pheromone. Cell, 1988, 54, 609-620.	28.9	237
5	Two New S-Phase-Specific Genes fromSaccharomyces cerevisiae. Yeast, 1997, 13, 1029-1042.	1.7	208
6	Lipid Raft Polarization Contributes to Hyphal Growth in Candida albicans. Eukaryotic Cell, 2004, 3, 675-684.	3.4	208
7	Septin Function inCandida albicansMorphogenesis. Molecular Biology of the Cell, 2002, 13, 2732-2746.	2.1	166
8	DEP-Domain-Mediated Regulation of GPCR Signaling Responses. Cell, 2006, 126, 1079-1093.	28.9	166
9	Sterol-Rich Plasma Membrane Domains in Fungi. Eukaryotic Cell, 2007, 6, 755-763.	3.4	139
10	N-Acetylglucosamine Functions in Cell Signaling. Scientifica, 2012, 2012, 1-15.	1.7	138
11	S. cerevisiae Î± pheromone receptors activate a novel signal transduction pathway for mating partner discrimination. Cell, 1991, 67, 389-402.	28.9	137
12	Identification of anN-Acetylglucosamine Transporter That Mediates Hyphal Induction inCandida albicans. Molecular Biology of the Cell, 2007, 18, 965-975.	2.1	124
13	Identification of a New Class of Antifungals Targeting the Synthesis of Fungal Sphingolipids. MBio, 2015, 6, e00647.	4.1	124
14	Fungal Membrane Organization: The Eisosome Concept. Annual Review of Microbiology, 2014, 68, 377-393.	7.3	118
15	Mutation of Pro-258 in transmembrane domain 6 constitutively activates the G protein-coupled alpha-factor receptor.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 6764-6769.	7.1	111
16	Septin Function in Yeast Model Systems and Pathogenic Fungi. Eukaryotic Cell, 2005, 4, 1503-1512.	3.4	104
17	Candida albicans Septin Mutants Are Defective for Invasive Growth and Virulence. Infection and Immunity, 2003, 71, 4045-4051.	2.2	85
18	Recognition of Yeast by Murine Macrophages Requires Mannan but Not Glucan. Eukaryotic Cell, 2010, 9, 1776-1787.	3.4	82

#	ARTICLE	IF	CITATIONS
19	Comparison of Class A and D G Protein-Coupled Receptors:â€‰ Common Features in Structure and Activation. Biochemistry, 2005, 44, 8959-8975.	2.5	80
20	The Sur7 Protein Regulates Plasma Membrane Organization and Prevents Intracellular Cell Wall Growth in<i>Candida albicans</i>. Molecular Biology of the Cell, 2008, 19, 5214-5225.	2.1	77
21	N-Acetylglucosamine (GlcNAc) Induction of Hyphal Morphogenesis and Transcriptional Responses in Candida albicans Are Not Dependent on Its Metabolism. Journal of Biological Chemistry, 2011, 286, 28671-28680.	3.4	74
22	Visualization of Receptor-mediated Endocytosis in Yeast. Molecular Biology of the Cell, 1999, 10, 799-817.	2.1	72
23	An N-acetylglucosamine transporter required for arbuscular mycorrhizal symbioses in rice and maize. Nature Plants, 2017, 3, 17073.	9.3	72
24	The C Terminus of the Saccharomyces cerevisiae Î±-Factor Receptor Contributes to the Formation of Preactivation Complexes with Its Cognate G Protein. Molecular and Cellular Biology, 2000, 20, 5321-5329.	2.3	65
25	Sur7 Promotes Plasma Membrane Organization and Is Needed for Resistance to Stressful Conditions and to the Invasive Growth and Virulence of Candida albicans. MBio, 2012, 3, .	4.1	63
26	Dominant-Negative Mutations in the G-Protein-Coupled Î±-Factor Receptor Map to the Extracellular Ends of the Transmembrane Segments. Molecular and Cellular Biology, 1998, 18, 5981-5991.	2.3	59
27	A Photostable Green Fluorescent Protein Variant for Analysis of Protein Localization in <i>Candida albicans</i>. Eukaryotic Cell, 2010, 9, 224-226.	3.4	59
28	N-acetylglucosamine (GlcNAc) Triggers a Rapid, Temperature-Responsive Morphogenetic Program in Thermally Dimorphic Fungi. PLoS Genetics, 2013, 9, e1003799.	3.5	58
29	Cell Cycle Dynamics and Quorum Sensing in Candida albicans Chlamydospores Are Distinct from Budding and Hyphal Growth. Eukaryotic Cell, 2005, 4, 1191-1202.	3.4	55
30	Identification of a Polar Region in Transmembrane Domain 6 That Regulates the Function of the G Protein-Coupled Î±-Factor Receptor. Molecular and Cellular Biology, 1998, 18, 7205-7215.	2.3	50
31	Iqg1p links spatial and secretion landmarks to polarity and cytokinesis. Journal of Cell Biology, 2002, 159, 601-611.	5.2	50
32	The Candida albicans Sur7 Protein Is Needed for Proper Synthesis of the Fibrillar Component of the Cell Wall That Confers Strength. Eukaryotic Cell, 2011, 10, 72-80.	3.4	50
33	BAR Domain Proteins Rvs161 and Rvs167 Contribute to <i>Candida albicans</i> Endocytosis, Morphogenesis, and Virulence. Infection and Immunity, 2009, 77, 4150-4160.	2.2	49
34	Aromatic Residues at the Extracellular Ends of Transmembrane Domains 5 and 6 Promote Ligand Activation of the G Protein-Coupled Î±-Factor Receptorâ€. Biochemistry, 2003, 42, 293-301.	2.5	46
35	Raft-Like Membrane Domains in Pathogenic Microorganisms. Current Topics in Membranes, 2015, 75, 233-268.	0.9	46
36	Flavodoxin-Like Proteins Protect Candida albicans from Oxidative Stress and Promote Virulence. PLoS Pathogens, 2015, 11, e1005147.	4.7	46

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37	Identification of GIG1 , a GlcNAc-Induced Gene in Candida albicans Needed for Normal Sensitivity to the Chitin Synthase Inhibitor Nikkomycin Z. Eukaryotic Cell, 2010, 9, 1476-1483.	3.4	43
38	Activation of the abl oncogene in murine and human leukemias. Biochimica Et Biophysica Acta: Reviews on Cancer, 1985, 823, 1-17.	7.4	41
39	Interaction between Transmembrane Domains Five and Six of the Î±-Factor Receptor. Journal of Biological Chemistry, 2000, 275, 26492-26499.	3.4	41
40	Novel roles for GlcNAc in cell signaling. Communicative and Integrative Biology, 2012, 5, 156-159.	1.4	41
41	Mutational Analysis of the Role of N-Glycosylation in Î±-Factor Receptor Functionâ€. Biochemistry, 2001, 40, 9685-9694.	2.5	39
42	Clathrin- and Arp2/3-Independent Endocytosis in the Fungal Pathogen Candida albicans. MBio, 2013, 4, e00476-13.	4.1	39
43	Genetic Analysis of <i>NDT80</i> Family Transcription Factors in <i>Candida albicans</i> Using New CRISPR-Cas9 Approaches. MSphere, 2018, 3, .	2.9	39
44	Functional expression of mammalian receptors and membrane channels in different cells. Journal of Structural Biology, 2007, 159, 179-193.	2.8	37
45	Distinct roles of cell wall biogenesis in yeast morphogenesis as revealed by multivariate analysis of high-dimensional morphometric data. Molecular Biology of the Cell, 2014, 25, 222-233.	2.1	37
46	Hyphal growth in<i>Candida albicans</i>does not require induction of hyphal-specific gene expression. Molecular Biology of the Cell, 2015, 26, 1174-1187.	2.1	37
47	Plasma membrane architecture protects Candida albicans from killing by copper. PLoS Genetics, 2019, 15, e1007911.	3.5	37
48	cAMPâ€independent signal pathways stimulate hyphal morphogenesis in <i>Candida albicans</i>. Molecular Microbiology, 2017, 103, 764-779.	2.5	36
49	N-acetylglucosamine Regulates Virulence Properties in Microbial Pathogens. PLoS Pathogens, 2015, 11, e1004947.	4.7	36
50	Membrane Compartment Occupied by Can1 (MCC) and Eisosome Subdomains of the Fungal Plasma Membrane. Membranes, 2011, 1, 394-411.	3.0	35
51	Protection from Systemic Candida albicans Infection by Inactivation of the Sts Phosphatases. Infection and Immunity, 2015, 83, 637-645.	2.2	35
52	The MARVEL Domain Protein Nce102 Regulates Actin Organization and Invasive Growth of Candida albicans. MBio, 2013, 4, e00723-13.	4.1	34
53	Identification of Amino Acids at Two Dimer Interface Regions of the Î±-Factor Receptor (Ste2). Biochemistry, 2009, 48, 7132-7139.	2.5	33
54	Regulation of Hyphal Growth and N-Acetylglucosamine Catabolism by Two Transcription Factors in <i>Candida albicans</i>. Genetics, 2017, 206, 299-314.	2.9	33

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55	Eisosomes promote the ability of Sur7 to regulate plasma membrane organization in<i>Candida albicans</i>. Molecular Biology of the Cell, 2016, 27, 1663-1675.	2.1	32
56	MCC/Eisosomes Regulate Cell Wall Synthesis and Stress Responses in Fungi. Journal of Fungi (Basel,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.5	31
57	Plasma Membrane MCC/Eisosome Domains Promote Stress Resistance in Fungi. Microbiology and Molecular Biology Reviews, 2020, 84, .	6.6	30
58	The Cytoplasmic End of Transmembrane Domain 3 Regulates the Activity of the <i>Saccharomyces cerevisiae</i> G-Protein-Coupled Î±-Factor Receptor. Genetics, 2002, 160, 429-443.	2.9	30
59	Plasma membrane organization promotes virulence of the human fungal pathogen Candida albicans. Journal of Microbiology, 2016, 54, 178-191.	2.8	29
60	<i>N</i> -Acetylglucosamine Metabolism Promotes Survival of Candida albicans in the Phagosome. MSphere, 2017, 2, .	2.9	29
61	A Microdomain Formed by the Extracellular Ends of the Transmembrane Domains Promotes Activation of the G Protein-Coupled Î±-Factor Receptor. Molecular and Cellular Biology, 2004, 24, 2041-2051.	2.3	28
62	A Candida albicans Temperature-Sensitivecdc12-6Mutant Identifies Roles for Septins in Selection of Sites of Germ Tube Formation and Hyphal Morphogenesis. Eukaryotic Cell, 2012, 11, 1210-1218.	3.4	28
63	Phagocytes from Mice Lacking the Sts Phosphatases Have an Enhanced Antifungal Response to Candida albicans. MBio, 2018, 9, .	4.1	27
64	Fungal Pathogens: Shape-Shifting Invaders. Trends in Microbiology, 2020, 28, 922-933.	7.7	27
65	Expression of a translocated c-abl gene in hybrids of mouse fibroblasts and chronic myelogenous leukaemia cells. Nature, 1986, 319, 331-333.	27.8	26
66	SUMO Modification of Septin-interacting Proteins in Candida albicans. Journal of Biological Chemistry, 2004, 279, 40861-40867.	3.4	26
67	The pheromone signal pathway inSaccharomyces cerevisiae. Antonie Van Leeuwenhoek, 1992, 62, 95-108.	1.7	24
68	The Sur7 protein resides in punctate membrane subdomains and mediates spatial regulation of cell wall synthesis in<i>Candida albicans</i>. Communicative and Integrative Biology, 2009, 2, 76-77.	1.4	24
69	Modulating Host Signaling Pathways to Promote Resistance to Infection by Candida albicans. Frontiers in Cellular and Infection Microbiology, 2017, 7, 481.	3.9	24
70	Successful expression of a functional yeast G-protein-coupled receptor (Ste2) in mammalian cells. Biochemical and Biophysical Research Communications, 2005, 329, 281-287.	2.1	20
71	Accessibility of Cysteine Residues Substituted into the Cytoplasmic Regions of the Î±-Factor Receptor Identifies the Intracellular Residues That Are Available for G Protein Interactionâ€. Biochemistry, 2006, 45, 15310-15317.	2.5	20
72	The mitochondrial protein Mcu1 plays important roles in carbon source utilization, filamentation, and virulence in Candida albicans. Fungal Genetics and Biology, 2015, 81, 150-159.	2.1	20

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73	N-Acetylglucosamine Regulates Morphogenesis and Virulence Pathways in Fungi. Journal of Fungi (Basel, Switzerland), 2020, 6, 8.	3.5	19
74	Functional Assays for Mammalian G-Protein-Coupled Receptors in Yeast. Methods in Enzymology, 2002, 344, 92-111.	1.0	16
75	<i>Saccharomyces cerevisiae</i> Afr1 Protein Is a Protein Phosphatase 1/Glc7-Targeting Subunit That Regulates the Septin Cytoskeleton during Mating. Eukaryotic Cell, 2008, 7, 1246-1255.	3.4	16
76	Point Mutations Identify a Conserved Region of the Saccharomyces cerevisiae AFR1 Gene That Is Essential for Both the Pheromone Signaling and Morphogenesis Functions. Genetics, 2000, 155, 43-55.	2.9	15
77	Afr1p Regulates the Saccharomyces cerevisiae Î±-Factor Receptor by a Mechanism That Is Distinct From Receptor Phosphorylation and Endocytosis. Genetics, 1998, 148, 625-635.	2.9	15
78	Constitutive activation of theSaccharomyces cerevisiae transcriptional regulator Ste12p by mutations at the amino-terminus. Yeast, 2000, 16, 1365-1375.	1.7	13
79	Pathogenic Effects of IFIT2 and Interferon-Î² during Fatal Systemic Candida albicans Infection. MBio, 2018, 9, .	4.1	11
80	The pheromone signal pathway in Saccharomyces cerevisiae. , 1992, , 95-108.		11
81	Identification of Residues that Contribute to Receptor Activation through the Analysis of Compensatory Mutations in the G Protein-Coupled Î±-Factor Receptor. Biochemistry, 2005, 44, 1278-1287.	2.5	10
82	Integrative multi-omics profiling reveals cAMP-independent mechanisms regulating hyphal morphogenesis in Candida albicans. PLoS Pathogens, 2021, 17, e1009861.	4.7	10
83	A Conserved Machinery Underlies the Synthesis of a Chitosan Layer in the <i>Candida</i> Chlamydospore Cell Wall. MSphere, 2021, 6, .	2.9	9
84	Microdomain Protein Nce102 Is a Local Sensor of Plasma Membrane Sphingolipid Balance. Microbiology Spectrum, 2022, 10, .	3.0	9
85	Combining mutations in the incoming and outgoing pheromone signal pathways causes a synergistic mating defect inSaccharomyces cerevisiae. , 1999, 15, 765-780.		8
86	Candida albicans <i>rvs161</i> Î" and <i>rvs167</i> Î" Endocytosis Mutants Are Defective in Invasion into the Oral Cavity. MBio, 2019, 10, .	4.1	6
87	The Sur7 cytoplasmic C terminus regulates morphogenesis and stress responses in Candida albicans. Molecular Microbiology, 2021, 116, 1201-1215.	2.5	6
88	Candida albicans Agar Invasion Assays. Bio-protocol, 2020, 10, e3730.	0.4	6
89	Differential Roles of a Family of Flavodoxin-Like Proteins That Promote Resistance to Quinone-Mediated Oxidative Stress in Candida albicans. Infection and Immunity, 2021, 89, .	2.2	5
90	Scanning mutagenesis of regions in the GÃŽÂ± protein Gpa1 that are predicted to interact with yeast mating pheromone receptors. FEMS Yeast Research, 2008, 8, 71-80.	2.3	3

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91	Strategies for Isolating Constitutively Active and Dominant-Negative Pheromone Receptor Mutants in Yeast. Methods in Enzymology, 2010, 485, 329-348.	1.0	3
92	Comparison of Experimental Approaches Used to Determine the Structure and Function of the Class D G Protein-Coupled Yeast Î±-Factor Receptor. Biomolecules, 2022, 12, 761.	4.0	2
93	Pheromone Receptors (Yeast). , 2004, , 256-261.		1
94	Receptors | Pheromone Receptors (Yeast). , 2021, , 236-241.		1
95	Two New S-Phase-Specific Genes from Saccharomyces cerevisiae. , 1997, 13, 1029.		1
96	Signal Transduction: Prokaryotic and Simple Eukaryotic Systems.Janet Kurjan , Barry L. Taylor. Quarterly Review of Biology, 1995, 70, 338-339.	0.1	0
97	Plasma Membrane Phosphatidylinositol 4-Phosphate Is Necessary for Virulence of Candida albicans. MBio, 2022, , e0036622.	4.1	0