

Howard Bussey

List of Publications by Year in descending order

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83
papers

21,165
citations

53660

45
h-index

74018

75
g-index

85
all docs

85
docs citations

85
times ranked

15868
citing authors

#	ARTICLE	IF	CITATIONS
1	The Genetic Landscape of a Cell. <i>Science</i> , 2010, 327, 425-431.	6.0	1,937
2	Genetic interaction network of the <i>Saccharomyces cerevisiae</i> type 1 phosphatase Glc7. <i>BMC Genomics</i> , 2008, 9, 336.	1.2	14
3	An in Vivo Map of the Yeast Protein Interactome. <i>Science</i> , 2008, 320, 1465-1470.	6.0	681
4	Genome-Wide Fitness Test and Mechanism-of-Action Studies of Inhibitory Compounds in <i>Candida albicans</i> . <i>PLoS Pathogens</i> , 2007, 3, e92.	2.1	215
5	Exploring genetic interactions and networks with yeast. <i>Nature Reviews Genetics</i> , 2007, 8, 437-449.	7.7	541
6	Identification of FLC family of proteins required for import of FAD into the endoplasmic reticulum in a screen for heme uptake genes. <i>FASEB Journal</i> , 2007, 21, A244.	0.2	0
7	From worm genetic networks to complex human diseases. <i>Nature Genetics</i> , 2006, 38, 862-863.	9.4	13
8	A Screen for Genes of Heme Uptake Identifies the FLC Family Required for Import of FAD into the Endoplasmic Reticulum. <i>Journal of Biological Chemistry</i> , 2006, 281, 21445-21457.	1.6	64
9	Cell Wall Assembly in <i>Saccharomyces cerevisiae</i> . <i>Microbiology and Molecular Biology Reviews</i> , 2006, 70, 317-343.	2.9	673
10	An interactional network of genes involved in chitin synthesis in <i>Saccharomyces cerevisiae</i> . <i>BMC Genetics</i> , 2005, 6, 8.	2.7	105
11	Motifs, themes and thematic maps of an integrated <i>Saccharomyces cerevisiae</i> interaction network. <i>Journal of Biology</i> , 2005, 4, 6.	2.7	154
12	KRE5 Gene Null Mutant Strains of <i>Candida albicans</i> Are Avirulent and Have Altered Cell Wall Composition and Hypha Formation Properties. <i>Eukaryotic Cell</i> , 2004, 3, 1423-1432.	3.4	73
13	Analysis of β -1,3-Glucan Assembly in <i>Saccharomyces cerevisiae</i> Using a Synthetic Interaction Network and Altered Sensitivity to Caspofungin. <i>Genetics</i> , 2004, 167, 35-49.	1.2	149
14	Global Mapping of the Yeast Genetic Interaction Network. <i>Science</i> , 2004, 303, 808-813.	6.0	1,908
15	An in vitro assay for β -1,3-D-glucan synthesis in <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , 2004, 21, 1121-1131.	0.8	36
16	Combining biological networks to predict genetic interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 15682-15687.	3.3	225
17	Integrative studies put cell wall synthesis on the yeast functional map. <i>Current Opinion in Microbiology</i> , 2004, 7, 617-623.	2.3	21
18	Large-scale essential gene identification in <i>Candida albicans</i> and applications to antifungal drug discovery. <i>Molecular Microbiology</i> , 2003, 50, 167-181.	1.2	461

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19	A <i>Saccharomyces cerevisiae</i> Genome-Wide Mutant Screen for Altered Sensitivity to K1 Killer Toxin. <i>Genetics</i> , 2003, 163, 875-894.	1.2	148
20	A synthetic analysis of the <i>Saccharomyces cerevisiae</i> stress sensor Mid2p, and identification of a Mid2p-interacting protein, Zeo1p, that modulates the PKC1-MPK1 cell integrity pathway. <i>Microbiology (United Kingdom)</i> , 2003, 149, 2487-2499.	0.7	46
21	Novel strategies in antifungal lead discovery. <i>Current Opinion in Microbiology</i> , 2002, 5, 466-471.	2.3	22
22	β -1,6-Glucan synthesis in <i>Saccharomyces cerevisiae</i> . <i>Molecular Microbiology</i> , 2002, 35, 477-489.	1.2	156
23	Mutations in Fks1p affect the cell wall content of β -1,3- and β -1,6-glucan in <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , 2002, 19, 671-690.	0.8	73
24	<i>Saccharomyces cerevisiae</i> Big1p, a putative endoplasmic reticulum membrane protein required for normal levels of cell wall β -1,6-glucan. <i>Yeast</i> , 2002, 19, 783-793.	0.8	28
25	Actin patch assembly proteins Las17p and Sla1p restrict cell wall growth to daughter cells and interact with cis-Golgi protein Kre6p. <i>Yeast</i> , 2002, 19, 1097-1112.	0.8	22
26	Functional, comparative and cell biological analysis of <i>Saccharomyces cerevisiae</i> Kre5p. <i>Yeast</i> , 2002, 19, 1243-1259.	0.8	22
27	Functional profiling of the <i>Saccharomyces cerevisiae</i> genome. <i>Nature</i> , 2002, 418, 387-391.	13.7	3,938
28	Systematic Genetic Analysis with Ordered Arrays of Yeast Deletion Mutants. <i>Science</i> , 2001, 294, 2364-2368.	6.0	1,946
29	Toxicity of human adenovirus E4orf4 protein in <i>Saccharomyces cerevisiae</i> results from interactions with the Cdc55 regulatory B subunit of PP2A. <i>Oncogene</i> , 2001, 20, 5279-5290.	2.6	59
30	Bud8p and Bud9p, Proteins That May Mark the Sites for Bipolar Budding in Yeast. <i>Molecular Biology of the Cell</i> , 2001, 12, 2497-2518.	0.9	90
31	Functional Characterization of the <i>Saccharomyces cerevisiae</i> Genome by Gene Deletion and Parallel Analysis. <i>Science</i> , 1999, 285, 901-906.	6.0	3,761
32	The KTR and MNN1 mannosyltransferase families of <i>Saccharomyces cerevisiae</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1999, 1426, 323-334.	1.1	123
33	<i>Saccharomyces cerevisiae</i> Mid2p Is a Potential Cell Wall Stress Sensor and Upstream Activator of the PKC1-MPK1 Cell Integrity Pathway. <i>Journal of Bacteriology</i> , 1999, 181, 3330-3340.	1.0	243
34	Isolation of CaSLN1 and CaNIK1, the genes for osmosensing histidine kinase homologues, from the pathogenic fungus <i>Candida albicans</i> . <i>Microbiology (United Kingdom)</i> , 1998, 144, 425-432.	0.7	137
35	Involvement of Protein N-Glycosyl Chain Glucosylation and Processing in the Biosynthesis of Cell Wall β -1,6-Glucan of <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 1998, 149, 843-856.	1.2	56
36	Isolation of <i>Candida glabrata</i> Homologs of the <i>Saccharomyces cerevisiae</i> KRE9 and KNH1 Genes and Their Involvement in Cell Wall β -1,6-Glucan Synthesis. <i>Journal of Bacteriology</i> , 1998, 180, 5020-5029.	1.0	26

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37	The yeast CWH41 gene encodes glucosidase I. <i>Glycobiology</i> , 1997, 7, 997-1004.	1.3	62
38	The Ktr1p, Ktr3p, and Kre2p/Mnt1p Mannosyltransferases Participate in the Elaboration of Yeast O- and N-linked Carbohydrate Chains. <i>Journal of Biological Chemistry</i> , 1997, 272, 15527-15531.	1.6	86
39	Ktr1p is an α -1,2-mannosyltransferase of <i>Saccharomyces cerevisiae</i> . Comparison of the enzymic properties of soluble recombinant Ktr1p and Kre2p/Mnt1p produced in <i>Pichia pastoris</i> . <i>Biochemical Journal</i> , 1997, 321, 289-295.	1.7	47
40	Analysis of a 103-kbp cluster homology region from the left end of <i>Saccharomyces cerevisiae</i> chromosome I. <i>Genome</i> , 1997, 40, 151-164.	0.9	4
41	Functional analysis of a 38 kilobase region on chromosome XVI in <i>Saccharomyces cerevisiae</i> . <i>Genes and Function</i> , 1997, 1, 273-284.	2.8	0
42	Completion of the <i>Saccharomyces cerevisiae</i> Genome Sequence Allows Identification of KTR5, KTR6 and KTR7 and Definition of the Nine-Membered KRE2/MNT1 Mannosyltransferase Gene Family in this Organism. , 1997, 13, 267-274.		47
43	Molecular Cloning of Chromosome I DNA from <i>Saccharomyces cerevisiae</i> : Characterization of the 54-kb Right Terminal CDC15-FLO1-PHO11 Region. <i>Yeast</i> , 1997, 13, 1251-1263.	0.8	17
44	The ALD6 gene of <i>Saccharomyces cerevisiae</i> encodes a cytosolic, Mg ²⁺ -activated acetaldehyde dehydrogenase. , 1997, 13, 1319-1327.		91
45	Guest Editorial: 1997 ushers in an era of yeast functional genomics. , 1997, 13, 1501-1503.		3
46	Large Scale Identification of Genes Involved in Cell Surface Biosynthesis and Architecture in <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 1997, 147, 435-450.	1.2	350
47	Identification of ASK10 as a multicopy activator of Skn7p-dependent transcription of a HIS3 reporter gene. <i>Yeast</i> , 1996, 12, 267-272.	0.8	16
48	The KNH1 gene of <i>Saccharomyces cerevisiae</i> is a functional homolog of KRE9. , 1996, 12, 683-692.		48
49	Functional Characterization of the YUR1, KTR1, and KTR2 Genes as Members of the Yeast KRE2/MNT1 Mannosyltransferase Gene Family. <i>Journal of Biological Chemistry</i> , 1996, 271, 11001-11008.	1.6	59
50	Regulation of cell wall β -glucan assembly: PTC1 Negatively affects PBS2 Action in a pathway that includes modulation of EXG1 transcription. <i>Molecular Genetics and Genomics</i> , 1995, 248, 260-269.	2.4	97
51	Yeast Kre1p is a cell surface O-glycoprotein. <i>Molecular Genetics and Genomics</i> , 1995, 249, 209-216.	2.4	33
52	Protein O-Glycosylation in Yeast. <i>Journal of Biological Chemistry</i> , 1995, 270, 2770-2775.	1.6	88
53	A new family of yeast genes implicated in ergosterol synthesis is related to the human oxysterol binding protein. <i>Yeast</i> , 1994, 10, 341-353.	0.8	93
54	I. Yeast sequencing reports. Sequencing of chromosome I of <i>Saccharomyces cerevisiae</i> : Analysis of the 42 kbp SP07-CEN1-CDC15 region. <i>Yeast</i> , 1994, 10, 535-541.	0.8	9

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55	I. Yeast sequencing reports. LTE1 of <i>Saccharomyces cerevisiae</i> is a 1435 codon open reading frame that has sequence similarities to guanine nucleotide releasing factors. <i>Yeast</i> , 1994, 10, 953-958.	0.8	15
56	XVI. Yeast sequencing reports. DNA sequence analysis of a 10.4 kbp region on the right arm of yeast chromosome XVI positions GPH1 and SGV1 adjacent to KRE6, and identifies two novel tRNA genes. <i>Yeast</i> , 1994, 10, 1527-1530.	0.8	5
57	Physical localization of yeast CYS3, a gene whose product resembles the rat β -cystathionase and <i>Escherichia coli</i> cystathionine β -synthase enzymes. <i>Yeast</i> , 1993, 9, 363-369.	0.8	14
58	The yal017 gene on the left arm of chromosome I of <i>Saccharomyces cerevisiae</i> encodes a putative serine/threonine protein kinase. <i>Yeast</i> , 1993, 9, 543-549.	0.8	4
59	KTR2: A new member of the KRE2 mannosyltransferase gene family. <i>Yeast</i> , 1993, 9, 1057-1063.	0.8	28
60	Sequencing of chromosome I from <i>Saccharomyces cerevisiae</i> : analysis of a 32 kb region between the LTE1 and SPO7 genes. <i>Genome</i> , 1993, 36, 32-42.	0.9	30
61	Identification of a <i>Saccharomyces cerevisiae</i> homolog of the SNF2 transcriptional regulator in the DNA sequence of an 8.6 kb region in the LTE1-CYS1 interval on the left arm of chromosome I. <i>Yeast</i> , 1992, 8, 133-145.	0.8	30
62	The K1 Toxin of <i>Saccharomyces cerevisiae</i> Kills Spheroplasts of Many Yeast Species. <i>Applied and Environmental Microbiology</i> , 1989, 55, 2105-2107.	1.4	38
63	Proteases and the processing of precursors to secreted proteins in yeast. <i>Yeast</i> , 1988, 4, 17-26.	0.8	109
64	Mutual antagonism among killer yeasts: competition between K1 and K2 killers and a novel cDNA-based K1-K2 killer strain of <i>Saccharomyces cerevisiae</i> . <i>Canadian Journal of Microbiology</i> , 1988, 34, 38-44.	0.8	33
65	The Yeast KEX1 Gene Product Acts as a Carboxypeptidase B-Like Protease in Processing Secreted Protein Precursors. , 1988, , 215-223.		0
66	Yeast KEX1 gene encodes a putative protease with a carboxypeptidase B-like function involved in killer toxin and β -factor precursor processing. <i>Cell</i> , 1987, 50, 573-584.	13.5	199
67	Yeast killer toxin: Site-directed mutations implicate the precursor protein as the immunity component. <i>Cell</i> , 1986, 46, 105-113.	13.5	95
68	Yeast arginine permease: nucleotide sequence of the CAN1 gene. <i>Current Genetics</i> , 1986, 10, 587-592.	0.8	95
69	Selection and stability of yeast transformants expressing cDNA of an M1 killer toxin-immunity gene. <i>Current Genetics</i> , 1985, 9, 285-291.	0.8	32
70	Sequence of the preprotoxin dsRNA gene of type I killer yeast: Multiple processing events produce a two-component toxin. <i>Cell</i> , 1984, 36, 741-751.	13.5	242
71	Protein secretion in yeast: Two chromosomal mutants that oversecrete killer toxin in <i>Saccharomyces cerevisiae</i> . <i>Current Genetics</i> , 1983, 7, 449-456.	0.8	24
72	Cell Wall Receptor for Yeast Killer Toxin: Involvement of (1 \rightarrow 6)- β -D-Glucan. <i>Journal of Bacteriology</i> , 1983, 154, 161-169.	1.0	188

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73	Physiology of Killer Factor in Yeast. <i>Advances in Microbial Physiology</i> , 1981, 22, 93-122.	1.0	137
74	Yeast Killer Toxin: Purification and Characterisation of the Protein Toxin from <i>Saccharomyces cerevisiae</i> . <i>FEBS Journal</i> , 1979, 93, 487-493.	0.2	124
75	Yeast plasma membrane ghosts. An analysis of proteins by two-dimensional gel electrophoresis. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1979, 553, 185-196.	1.4	30
76	<i>Saccharomyces cerevisiae</i> killer expression mutant <i>kex2</i> has altered secretory proteins and glycoproteins. <i>Biochemical and Biophysical Research Communications</i> , 1979, 90, 187-193.	1.0	40
77	A model for stably inherited environmentally induced changes in plants. <i>Nature</i> , 1974, 251, 708-710.	13.7	12
78	Yeast killer factor: ATP leakage and coordinate inhibition of macromolecular synthesis in sensitive cells. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1973, 298, 868-875.	1.4	76
79	Action of Yeast Killer Factor: a Resistant Mutant with Sensitive Spheroplasts. <i>Journal of Bacteriology</i> , 1973, 113, 1193-1197.	1.0	53
80	Effects of Yeast Killer Factor on Sensitive Cells. <i>Nature: New Biology</i> , 1972, 235, 73-75.	4.5	119
81	Biosynthesis of the Branched-Chain Amino Acids in Yeast: a Trifluoroleucine-Resistant Mutant with Altered Regulation of Leucine Uptake. <i>Journal of Bacteriology</i> , 1970, 103, 286-294.	1.0	26
82	Biosynthesis of Branched-Chain Amino Acids in Yeast: Regulation of Synthesis of the Enzymes of Isoleucine and Valine Biosynthesis. <i>Journal of Bacteriology</i> , 1969, 98, 623-628.	1.0	49
83	Functional Genomic Approaches to Fungal Pathogenesis, Drug Target Validation, and Antifungal Drug Discovery. , 0, , 627-642.		1