

Charles Hoffman

List of Publications by Year in descending order

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73
papers

5,702
citations

126901

33
h-index

88628

70
g-index

73
all docs

73
docs citations

73
times ranked

3830
citing authors

#	ARTICLE	IF	CITATIONS
1	A ten-minute DNA preparation from yeast efficiently releases autonomous plasmids for transformation of <i>Escherichia coli</i> . <i>Gene</i> , 1987, 57, 267-272.	2.2	2,611
2	Fusions of secreted proteins to alkaline phosphatase: an approach for studying protein secretion.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1985, 82, 5107-5111.	7.1	250
3	Stepwise chromatin remodelling by a cascade of transcription initiation of non-coding RNAs. <i>Nature</i> , 2008, 456, 130-134.	27.8	249
4	An Ancient Yeast for Young Geneticists: A Primer on the <i>Schizosaccharomyces pombe</i> Model System. <i>Genetics</i> , 2015, 201, 403-423.	2.9	180
5	Glucose repression of transcription of the <i>Schizosaccharomyces pombe</i> <i>fbp1</i> gene occurs by a cAMP signaling pathway.. <i>Genes and Development</i> , 1991, 5, 561-571.	5.9	156
6	Glucose Monitoring in Fission Yeast via the <i>gpa2</i> G α , the <i>git5</i> G β and the <i>git3</i> Putative Glucose Receptor. <i>Genetics</i> , 2000, 156, 513-521.	2.9	126
7	Isolation and characterization of mutants constitutive for expression of the <i>fbp1</i> gene of <i>Schizosaccharomyces pombe</i> .. <i>Genetics</i> , 1990, 124, 807-816.	2.9	112
8	Glucose sensing via the protein kinase A pathway in <i>Schizosaccharomyces pombe</i> . <i>Biochemical Society Transactions</i> , 2005, 33, 257-260.	3.4	105
9	Pro-Aging Effects of Glucose Signaling through a G Protein-Coupled Glucose Receptor in Fission Yeast. <i>PLoS Genetics</i> , 2009, 5, e1000408.	3.5	89
10	A transcriptionally regulated expression vector for the fission yeast <i>Schizosaccharomyces pombe</i> . <i>Gene</i> , 1989, 84, 473-479.	2.2	87
11	<i>sck1</i> , a high copy number suppressor of defects in the cAMP-dependent protein kinase pathway in fission yeast, encodes a protein homologous to the <i>Saccharomyces cerevisiae</i> SCH9 kinase.. <i>Genetics</i> , 1995, 140, 457-467.	2.9	83
12	Protein Kinase A and Mitogen-Activated Protein Kinase Pathways Antagonistically Regulate Fission Yeast <i>fbp1</i> Transcription by Employing Different Modes of Action at Two Upstream Activation Sites. <i>Molecular and Cellular Biology</i> , 2000, 20, 6426-6434.	2.3	77
13	Cloning and manipulation of the <i>Schizosaccharomyces pombe</i> <i>his7+</i> gene as a new selectable marker for molecular genetic studies. <i>Current Genetics</i> , 1993, 24, 491-495.	1.7	75
14	Except in Every Detail: Comparing and Contrasting G-Protein Signaling in <i>Saccharomyces cerevisiae</i> and <i>Schizosaccharomyces pombe</i> . <i>Eukaryotic Cell</i> , 2005, 4, 495-503.	3.4	73
15	Glucose repression of <i>fbp1</i> transcription of <i>Schizosaccharomyces pombe</i> is partially regulated by adenylate cyclase activation by a G protein alpha subunit encoded by <i>gpa2</i> (<i>git8</i>).. <i>Genetics</i> , 1994, 138, 39-45.	2.9	65
16	Transcriptional Regulators of the <i>Schizosaccharomyces pombe</i> <i>fbp1</i> Gene Include Two Redundant Tup1p-like Corepressors and the CCAAT Binding Factor Activation Complex. <i>Genetics</i> , 2001, 157, 1205-1215.	2.9	62
17	The <i>git5</i> G β and <i>git11</i> G β Form an Atypical G β β Dimer Acting in the Fission Yeast Glucose/cAMP Pathway. <i>Genetics</i> , 2001, 157, 1159-1168.	2.9	59
18	The fission yeast genes <i>pyp1+</i> and <i>pyp2+</i> encode protein tyrosine phosphatases that negatively regulate mitosis.. <i>Molecular and Cellular Biology</i> , 1992, 12, 5571-5580.	2.3	53

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19	Properties of the Type B Histone Acetyltransferase Hat1. <i>Journal of Biological Chemistry</i> , 2007, 282, 836-842.	3.4	53
20	Identification of Biologically Active PDE11-Selective Inhibitors Using a Yeast-Based High-Throughput Screen. <i>Chemistry and Biology</i> , 2012, 19, 155-163.	6.0	53
21	Preparation of Yeast DNA. <i>Current Protocols in Molecular Biology</i> , 1997, 39, Unit13.11.	2.9	50
22	The Fission Yeast <i>git5</i> Gene Encodes a G β 2 Subunit Required for Glucose-Triggered Adenylate Cyclase Activation. <i>Genetics</i> , 2000, 154, 1463-1471.	2.9	50
23	A fission-yeast gene encoding a protein with features of protein-tyrosine-phosphatases.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991, 88, 3455-3459.	7.1	49
24	Direct activation of fission yeast adenylate cyclase by the Gpa2 G α of the glucose signaling pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 6108-6113.	7.1	47
25	Fission yeast global repressors regulate the specificity of chromatin alteration in response to distinct environmental stresses. <i>Nucleic Acids Research</i> , 2004, 32, 855-862.	14.5	45
26	Suppressors of an Adenylate Cyclase Deletion in the Fission Yeast <i>Schizosaccharomyces pombe</i> . <i>Eukaryotic Cell</i> , 2004, 3, 610-619.	3.4	44
27	Six <i>git</i> genes encode a glucose-induced adenylate cyclase activation pathway in the fission yeast <i>Schizosaccharomyces pombe</i> . <i>Journal of Cell Science</i> , 1993, 105 (Pt 4), 1095-100.	2.0	44
28	Role of Fission Yeast Tup1-like Repressors and Prr1 Transcription Factor in Response to Salt Stress. <i>Molecular Biology of the Cell</i> , 2002, 13, 2977-2989.	2.1	43
29	Fission Yeast Tup1-Like Repressors Repress Chromatin Remodeling at the <i>fbp1</i> + Promoter and the <i>ade6-M26</i> Recombination Hotspot. <i>Genetics</i> , 2003, 165, 505-515.	2.9	43
30	Development of a Fission Yeast-Based High-Throughput Screen to Identify Chemical Regulators of cAMP Phosphodiesterases. <i>Journal of Biomolecular Screening</i> , 2008, 13, 62-71.	2.6	41
31	A Brief History of <i>Schizosaccharomyces pombe</i> Research: A Perspective Over the Past 70 Years. <i>Genetics</i> , 2016, 203, 621-629.	2.9	40
32	<i>Schizosaccharomyces pombe</i> Git7p, a Member of the <i>Saccharomyces cerevisiae</i> Sgt1p Family, Is Required for Glucose and Cyclic AMP Signaling, Cell Wall Integrity, and Septation. <i>Eukaryotic Cell</i> , 2002, 1, 558-567.	3.4	35
33	Reciprocal Nuclear Shuttling of Two Antagonizing Zn Finger Proteins Modulates Tup Family Corepressor Function To Repress Chromatin Remodeling. <i>Eukaryotic Cell</i> , 2006, 5, 1980-1989.	3.4	34
34	<i>Schizosaccharomyces pombe</i> Adenylate Cyclase Suppressor Mutations Suggest a Role for cAMP Phosphodiesterase Regulation in Feedback Control of Glucose/cAMP Signaling. <i>Genetics</i> , 2005, 171, 1523-1533.	2.9	33
35	Local potentiation of stress-responsive genes by upstream noncoding transcription. <i>Nucleic Acids Research</i> , 2016, 44, 5174-5189.	14.5	33
36	New Classes of PDE7 Inhibitors Identified by a Fission Yeast-Based HTS. <i>Journal of Biomolecular Screening</i> , 2010, 15, 359-367.	2.6	30

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37	The Schizosaccharomyces pombe pyp1 protein tyrosine phosphatase negatively regulates nutrient monitoring pathways. <i>Journal of Cell Science</i> , 1996, 109 (Pt 7), 1919-1925.	2.0	28
38	The phospholipase B homolog Plb1 is a mediator of osmotic stress response and of nutrient-dependent repression of sexual differentiation in the fission yeast Schizosaccharomyces pombe. <i>Molecular Genetics and Genomics</i> , 2003, 269, 116-125.	2.1	25
39	A Yeast-Based Chemical Screen Identifies a PDE Inhibitor That Elevates Steroidogenesis in Mouse Leydig Cells via PDE8 and PDE4 Inhibition. <i>PLoS ONE</i> , 2013, 8, e71279.	2.5	25
40	The Fission Yeast Genes <i>pyp1</i> and <i>pyp2</i> Encode Protein Tyrosine Phosphatases That Negatively Regulate Mitosis. <i>Molecular and Cellular Biology</i> , 1992, 12, 5571-5580.	2.3	24
41	Antagonistic Controls of Chromatin and mRNA Start Site Selection by Tup Family Corepressors and the CCAAT-Binding Factor. <i>Molecular and Cellular Biology</i> , 2015, 35, 847-855.	2.3	23
42	<i>Schizosaccharomyces pombe</i> Hsp90/Git10 Is Required for Glucose/cAMP Signaling. <i>Genetics</i> , 2008, 178, 1927-1936.	2.9	21
43	Strategies for gene disruptions and plasmid constructions in fission yeast. <i>Methods</i> , 2004, 33, 199-205.	3.8	20
44	Anti-inflammatory effects of novel barbituric acid derivatives in T lymphocytes. <i>International Immunopharmacology</i> , 2016, 38, 223-232.	3.8	20
45	Use of a Schizosaccharomyces pombe PKA-repressible reporter to study cGMP metabolising phosphodiesterases. <i>Cellular Signalling</i> , 2011, 23, 594-601.	3.6	19
46	Schizosaccharomyces pombe Hat1 (Kat1) Is Associated with Mis16 and Is Required for Telomeric Silencing. <i>Eukaryotic Cell</i> , 2012, 11, 1095-1103.	3.4	17
47	Use of a ura5 + lys7 + cassette to construct unmarked gene knock-ins in Schizosaccharomyces pombe. <i>Current Genetics</i> , 2012, 58, 59-64.	1.7	16
48	Interplay between chromatin modulators and histone acetylation regulates the formation of accessible chromatin in the upstream regulatory region of fission yeast <i>fbp1</i> . <i>Genes and Genetic Systems</i> , 2017, 92, 267-276.	0.7	14
49	Schizosaccharomyces pombe Git1 Is a C2-Domain Protein Required for Glucose Activation of Adenylate Cyclase. <i>Genetics</i> , 2006, 173, 49-61.	2.9	13
50	Identification and characterization of a potent and biologically-active PDE4/7 inhibitor via fission yeast-based assays. <i>Cellular Signalling</i> , 2017, 40, 73-80.	3.6	13
51	Recruitment and delivery of the fission yeast Rst2 transcription factor via a local genome structure counteracts repression by Tup1-family corepressors. <i>Nucleic Acids Research</i> , 2017, 45, 9361-9371.	14.5	13
52	Activated Alleles of the Schizosaccharomyces pombe <i>gpa2</i> G β Gene Identify Residues Involved in GDP-GTP Exchange. <i>Eukaryotic Cell</i> , 2010, 9, 626-633.	3.4	12
53	A Fission Yeast-Based Platform for Phosphodiesterase Inhibitor HTSs and Analyses of Phosphodiesterase Activity. <i>Handbook of Experimental Pharmacology</i> , 2011, , 135-149.	1.8	12
54	Gap Repair Transformation in Fission Yeast to Exchange Plasmid-Selectable Markers. <i>BioTechniques</i> , 2002, 33, 978-982.	1.8	11

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55	Mutagenesis and Gene Cloning in <i>Schizosaccharomyces pombe</i> Using Nonhomologous Plasmid Integration and Rescue. <i>BioTechniques</i> , 2000, 28, 532-540.	1.8	10
56	Cloning the <i>Schizosaccharomyces pombe</i> <i>lys2</i> + gene and construction of new molecular genetic tools. <i>Current Genetics</i> , 2006, 49, 414-420.	1.7	9
57	lncRNA transcriptional initiation induces chromatin remodeling within a limited range in the fission yeast <i>fbp1</i> promoter. <i>Scientific Reports</i> , 2019, 9, 299.	3.3	9
58	Propping Up Our Knowledge of G Protein Signaling Pathways: Diverse Functions of Putative Noncanonical Gbeta Subunits in Fungi. <i>Science's STKE: Signal Transduction Knowledge Environment</i> , 2007, 2007, pe3-pe3.	3.9	8
59	Protein Kinase A and Mitogen-Activated Protein Kinase Pathways Antagonistically Regulate Fission Yeast <i>fbp1</i> Transcription by Employing Different Modes of Action at Two Upstream Activation Sites. <i>Molecular and Cellular Biology</i> , 2000, 20, 6426-6434.	2.3	8
60	Use of PKA-mediated phenotypes for genetic and small-molecule screens in <i>Schizosaccharomyces pombe</i> . <i>Biochemical Society Transactions</i> , 2013, 41, 1692-1695.	3.4	7
61	A fission yeast platform for heterologous expression of mammalian adenylyl cyclases and high throughput screening. <i>Cellular Signalling</i> , 2019, 60, 114-121.	3.6	7
62	lncRNA transcription induces meiotic recombination through chromatin remodelling in fission yeast. <i>Communications Biology</i> , 2021, 4, 295.	4.4	7
63	<i>Sck1</i> Negatively Regulates Gpa2-Mediated Glucose Signaling in <i>Schizosaccharomyces pombe</i> . <i>Eukaryotic Cell</i> , 2014, 13, 202-208.	3.4	6
64	Reciprocal stabilization of transcription factor binding integrates two signaling pathways to regulate fission yeast <i>fbp1</i> transcription. <i>Nucleic Acids Research</i> , 2021, 49, 9809-9820.	14.5	6
65	Fission Yeast-Based High-Throughput Screens for PKA Pathway Inhibitors and Activators. <i>Methods in Molecular Biology</i> , 2015, 1263, 77-91.	0.9	6
66	Histone Chaperone <i>Asf1</i> Is Required for the Establishment of Repressive Chromatin in <i>Schizosaccharomyces pombe</i> <i>fbp1</i> Gene Repression. <i>Molecular and Cellular Biology</i> , 2018, 38, .	2.3	4
67	Pseudostructural Inhibitors of G Protein Signaling during Development. <i>Developmental Cell</i> , 2002, 3, 154-155.	7.0	3
68	A Yeast-Based High-Throughput Screen for Modulators of Phosphodiesterase Activity. <i>Methods in Molecular Biology</i> , 2015, 1294, 181-190.	0.9	3
69	Cloning and functional complementation of ten <i>Schistosoma mansoni</i> phosphodiesterases expressed in the mammalian host stages. <i>PLoS Neglected Tropical Diseases</i> , 2020, 14, e0008447.	3.0	2
70	Towards spectrally selective catastrophic response. <i>Physical Review E</i> , 2020, 101, 062415.	2.1	2
71	cAMP export by the fission yeast. <i>MicroPublication Biology</i> , 2021, 2021, .	0.1	0
72	Use of a Fission Yeast Platform to Identify and Characterize Small Molecule PDE Inhibitors. <i>Frontiers in Pharmacology</i> , 2021, 12, 833156.	3.5	0

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73	Methods to Assess Phosphodiesterase and/or Adenylyl Cyclase Activity Via Heterologous Expression in Fission Yeast. <i>Methods in Molecular Biology</i> , 2022, 2483, 93-104.	0.9	0