Charles Hoffman

List of Publications by Citations

72 papers	4,821 citations	31 h-index	69 g-index
73 ext. papers	5,170 ext. citations	6.1 avg, IF	5.43 L-index

#	Paper	IF	Citations
72	A ten-minute DNA preparation from yeast efficiently releases autonomous plasmids for transformation of Escherichia coli. *Gene*, **1987**, 57, 267-72	3.8	2304
71	Fusions of secreted proteins to alkaline phosphatase: an approach for studying protein secretion. *Proceedings of the National Academy of Sciences of the United States of America*, **1985**, 82, 5107-11	11.5	217
70	Stepwise chromatin remodelling by a cascade of transcription initiation of non-coding RNAs. *Nature* , **2008**, 456, 130-4	50.4	209
69	Glucose repression of transcription of the Schizosaccharomyces pombe fbp1 gene occurs by a cAMP signaling pathway. *Genes and Development*, **1991**, 5, 561-71	12.6	124
68	An Ancient Yeast for Young Geneticists: A Primer on the Schizosaccharomyces pombe Model System. *Genetics*, **2015**, 201, 403-23	4	112
67	Glucose monitoring in fission yeast via the Gpa2 galpha, the git5 Gbeta and the git3 putative glucose receptor. *Genetics*, **2000**, 156, 513-21	4	103
66	Glucose sensing via the protein kinase A pathway in Schizosaccharomyces pombe. *Biochemical Society Transactions*, **2005**, 33, 257-60	5.1	89
65	Isolation and characterization of mutants constitutive for expression of the fbp1 gene of Schizosaccharomyces pombe. *Genetics*, **1990**, 124, 807-16	4	80
64	A transcriptionally regulated expression vector for the fission yeast Schizosaccharomyces pombe. *Gene*, **1989**, 84, 473-9	3.8	75
63	sck1, a high copy number suppressor of defects in the cAMP-dependent protein kinase pathway in fission yeast, encodes a protein homologous to the Saccharomyces cerevisiae SCH9 kinase. *Genetics* , **1995**, 140, 457-67	4	71
62	Cloning and manipulation of the Schizosaccharomyces pombe his7+ gene as a new selectable marker for molecular genetic studies. *Current Genetics*, **1993**, 24, 491-5	2.9	67
61	Protein kinase A and mitogen-activated protein kinase pathways antagonistically regulate fission yeast fbp1 transcription by employing different modes of action at two upstream activation sites. *Molecular and Cellular Biology*, **2000**, 20, 6426-34	4.8	65
60	Pro-aging effects of glucose signaling through a G protein-coupled glucose receptor in fission yeast. *PLoS Genetics*, **2009**, 5, e1000408	6	64
59	Except in every detail: comparing and contrasting G-protein signaling in Saccharomyces cerevisiae and Schizosaccharomyces pombe. *Eukaryotic Cell*, **2005**, 4, 495-503		63
58	Glucose repression of fbp1 transcription of Schizosaccharomyces pombe is partially regulated by adenylate cyclase activation by a G protein alpha subunit encoded by gpa2 (git8). *Genetics*, **1994**, 138, 39-45	4	53
57	The fission yeast genes pyp1+ and pyp2+ encode protein tyrosine phosphatases that negatively regulate mitosis. *Molecular and Cellular Biology*, **1992**, 12, 5571-80	4.8	51
56	The git5 Gbeta and git11 Ggamma form an atypical Gbetagamma dimer acting in the fission yeast glucose/cAMP pathway. *Genetics*, **2001**, 157, 1159-68	4	51

55	Transcriptional regulators of the Schizosaccharomyces pombe fbp1 gene include two redundant Tup1p-like corepressors and the CCAAT binding factor activation complex. *Genetics*, **2001**, 157, 1205-15	4	51
54	Properties of the type B histone acetyltransferase Hat1: H4 tail interaction, site preference, and involvement in DNA repair. *Journal of Biological Chemistry*, **2007**, 282, 836-42	5.4	50
53	Identification of biologically active PDE11-selective inhibitors using a yeast-based high-throughput screen. *Chemistry and Biology*, **2012**, 19, 155-63		47
52	A fission-yeast gene encoding a protein with features of protein-tyrosine-phosphatases. *Proceedings of the National Academy of Sciences of the United States of America*, **1991**, 88, 3455-9	11.5	45
51	The fission yeast git5 gene encodes a Gbeta subunit required for glucose-triggered adenylate cyclase activation. *Genetics*, **2000**, 154, 1463-71	4	44
50	Suppressors of an adenylate cyclase deletion in the fission yeast Schizosaccharomyces pombe. *Eukaryotic Cell*, **2004**, 3, 610-9		40
49	Role of fission yeast Tup1-like repressors and Prr1 transcription factor in response to salt stress. *Molecular Biology of the Cell*, **2002**, 13, 2977-89	3.5	39
48	Direct activation of fission yeast adenylate cyclase by the Gpa2 Galpha of the glucose signaling pathway. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 6108-13	11.5	38
47	Fission yeast global repressors regulate the specificity of chromatin alteration in response to distinct environmental stresses. *Nucleic Acids Research*, **2004**, 32, 855-62	20.1	37
46	Six git genes encode a glucose-induced adenylate cyclase activation pathway in the fission yeast Schizosaccharomyces pombe. *Journal of Cell Science*, **1993**, 105 (Pt 4), 1095-100	5.3	37
45	Fission yeast Tup1-like repressors repress chromatin remodeling at the fbp1+ promoter and the ade6-M26 recombination hotspot. *Genetics*, **2003**, 165, 505-15	4	35
44	Development of a fission yeast-based high-throughput screen to identify chemical regulators of cAMP phosphodiesterases. *Journal of Biomolecular Screening*, **2008**, 13, 62-71		34
43	Preparation of yeast DNA. *Current Protocols in Molecular Biology*, **2001**, Chapter 13, Unit13.11	2.9	33
42	Schizosaccharomyces pombe Git7p, a member of the Saccharomyces cerevisiae Sgtlp family, is required for glucose and cyclic AMP signaling, cell wall integrity, and septation. *Eukaryotic Cell*, **2002**, 1, 558-67		33
41	Reciprocal nuclear shuttling of two antagonizing Zn finger proteins modulates Tup family corepressor function to repress chromatin remodeling. *Eukaryotic Cell*, **2006**, 5, 1980-9		31
40	Schizosaccharomyces pombe adenylate cyclase suppressor mutations suggest a role for cAMP phosphodiesterase regulation in feedback control of glucose/cAMP signaling. *Genetics*, **2005**, 171, 1523-33	4	30
39	A Brief History of Schizosaccharomyces pombe Research: A Perspective Over the Past 70 Years. *Genetics*, **2016**, 203, 621-9	4	28
38	New classes of PDE7 inhibitors identified by a fission yeast-based HTS. *Journal of Biomolecular Screening*, **2010**, 15, 359-67		27

37	The fission yeast genes pyp1+ and pyp2+ encode protein tyrosine phosphatases that negatively regulate mitosis. *Molecular and Cellular Biology*, **1992**, 12, 5571-5580	4.8	21
36	A yeast-based chemical screen identifies a PDE inhibitor that elevates steroidogenesis in mouse Leydig cells via PDE8 and PDE4 inhibition. *PLoS ONE*, **2013**, 8, e71279	3.7	21
35	The Schizosaccharomyces pombe pyp1 protein tyrosine phosphatase negatively regulates nutrient monitoring pathways. *Journal of Cell Science*, **1996**, 109 (Pt 7), 1919-1925	5.3	21
34	Local potentiation of stress-responsive genes by upstream noncoding transcription. *Nucleic Acids Research*, **2016**, 44, 5174-89	20.1	20
33	Antagonistic controls of chromatin and mRNA start site selection by Tup family corepressors and the CCAAT-binding factor. *Molecular and Cellular Biology*, **2015**, 35, 847-55	4.8	19
32	Use of a Schizosaccharomyces pombe PKA-repressible reporter to study cGMP metabolising phosphodiesterases. *Cellular Signalling*, **2011**, 23, 594-601	4.9	18
31	Schizosaccharomyces pombe Hsp90/Git10 is required for glucose/cAMP signaling. *Genetics*, **2008**, 178, 1927-36	4	18
30	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. *Molecular Genetics and Genomics*, **2003**, 269, 116-25	3.1	17
29	Schizosaccharomyces pombe Hat1 (Kat1) is associated with Mis16 and is required for telomeric silencing. *Eukaryotic Cell*, **2012**, 11, 1095-103		16
28	Strategies for gene disruptions and plasmid constructions in fission yeast. *Methods*, **2004**, 33, 199-205	4.6	16
27	Use of a ura5+-lys7+ cassette to construct unmarked gene knock-ins in Schizosaccharomyces pombe. *Current Genetics*, **2012**, 58, 59-64	2.9	14
26	Anti-inflammatory effects of novel barbituric acid derivatives in T lymphocytes. *International Immunopharmacology*, **2016**, 38, 223-32	5.8	12
25	Schizosaccharomyces pombe Git1 is a C2-domain protein required for glucose activation of adenylate cyclase. *Genetics*, **2006**, 173, 49-61	4	12
24	A fission yeast-based platform for phosphodiesterase inhibitor HTSs and analyses of phosphodiesterase activity. *Handbook of Experimental Pharmacology*, **2011**, 135-49	3.2	12
23	Activated alleles of the Schizosaccharomyces pombe gpa2+ Galpha gene identify residues involved in GDP-GTP exchange. *Eukaryotic Cell*, **2010**, 9, 626-33		11
22	Identification and characterization of a potent and biologically-active PDE4/7 inhibitor via fission yeast-based assays. *Cellular Signalling*, **2017**, 40, 73-80	4.9	10
21	Recruitment and delivery of the fission yeast Rst2 transcription factor via a local genome structure counteracts repression by Tup1-family corepressors. *Nucleic Acids Research*, **2017**, 45, 9361-9371	20.1	10
20	Gap repair transformation in fission yeast to exchange plasmid-selectable markers. *BioTechniques*, **2002**, 33, 978, 980, 982	2.5	9

19	Cloning the Schizosaccharomyces pombe lys2+ gene and construction of new molecular genetic tools. *Current Genetics*, **2006**, 49, 414-20	2.9	8
18	Interplay between chromatin modulators and histone acetylation regulates the formation of accessible chromatin in the upstream regulatory region of fission yeast fbp1. *Genes and Genetic Systems*, **2018**, 92, 267-276	1.4	6
17	Sck1 negatively regulates Gpa2-mediated glucose signaling in Schizosaccharomyces pombe. *Eukaryotic Cell*, **2014**, 13, 202-8		6
16	Propping up our knowledge of G protein signaling pathways: diverse functions of putative noncanonical Gbeta subunits in fungi. *Science's STKE: Signal Transduction Knowledge Environment*, **2007**, 2007, pe3		6
15	Mutagenesis and gene cloning in Schizosaccharomyces pombe using nonhomologous plasmid integration and rescue. *BioTechniques*, **2000**, 28, 532-6, 538, 540	2.5	6
14	lncRNA transcriptional initiation induces chromatin remodeling within a limited range in the fission yeast fbp1 promoter. *Scientific Reports*, **2019**, 9, 299	4.9	5
13	Use of PKA-mediated phenotypes for genetic and small-molecule screens in Schizosaccharomyces pombe. *Biochemical Society Transactions*, **2013**, 41, 1692-5	5.1	5
12	Fission yeast-based high-throughput screens for PKA pathway inhibitors and activators. *Methods in Molecular Biology*, **2015**, 1263, 77-91	1.4	5
11	A fission yeast platform for heterologous expression of mammalian adenylyl cyclases and high throughput screening. *Cellular Signalling*, **2019**, 60, 114-121	4.9	3
10	Histone Chaperone Asf1 Is Required for the Establishment of Repressive Chromatin in Schizosaccharomyces pombe fbp1 Gene Repression. *Molecular and Cellular Biology*, **2018**, 38,	4.8	3
9	Pseudostructural inhibitors of G protein signaling during development. *Developmental Cell*, **2002**, 3, 154-5	10.2	3
8	A yeast-based high-throughput screen for modulators of phosphodiesterase activity. *Methods in Molecular Biology*, **2015**, 1294, 181-90	1.4	3
7	Towards spectrally selective catastrophic response. *Physical Review E*, **2020**, 101, 062415	2.4	2
6	Protein Kinase A and Mitogen-Activated Protein Kinase Pathways Antagonistically Regulate Fission Yeast fbp1Transcription by Employing Different Modes of Action at Two Upstream Activation Sites. *Molecular and Cellular Biology*, **2000**, 20, 6426-6434	4.8	2
5	Cloning and functional complementation of ten Schistosoma mansoni phosphodiesterases expressed in the mammalian host stages. *PLoS Neglected Tropical Diseases*, **2020**, 14, e0008447	4.8	2
4	lncRNA transcription induces meiotic recombination through chromatin remodelling in fission yeast. *Communications Biology*, **2021**, 4, 295	6.7	2
3	Reciprocal stabilization of transcription factor binding integrates two signaling pathways to regulate fission yeast fbp1 transcription. *Nucleic Acids Research*, **2021**, 49, 9809-9820	20.1	0
2	Use of a Fission Yeast Platform to Identify and Characterize Small Molecule PDE Inhibitors.. *Frontiers in Pharmacology*, **2021**, 12, 833156	5.6	

1	Methods to Assess Phosphodiesterase and/or Adenylyl Cyclase Activity Via Heterologous Expression in Fission Yeast.. *Methods in Molecular Biology*, **2022**, 2483, 93-104	1.4