

# Philip Hieter

## List of Publications by Year in descending order

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67  
papers

10,706  
citations

87888

38  
h-index

106344

65  
g-index

68  
all docs

68  
docs citations

68  
times ranked

12415  
citing authors

#	ARTICLE	IF	CITATIONS
1	ModelMatcher: A scientist-centric online platform to facilitate collaborations between stakeholders of rare and undiagnosed disease research. <i>Human Mutation</i> , 2022, , .	2.5	5
2	Mapping Synthetic Dosage Lethal Genetic Interactions in <i>Saccharomyces cerevisiae</i> . <i>Methods in Molecular Biology</i> , 2021, 2381, 39-56.	0.9	0
3	Modeling DNA trapping of anticancer therapeutic targets using missense mutations identifies dominant synthetic lethal interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, e2100240118.	7.1	3
4	Paralogous synthetic lethality underlies genetic dependencies of the cancer-mutated gene <i>STAG2</i> . <i>Life Science Alliance</i> , 2021, 4, e202101083.	2.8	10
5	A Multimodal Genotoxic Anticancer Drug Characterized by Pharmacogenetic Analysis in <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2020, 215, 609-621.	2.9	9
6	The Canadian Rare Diseases Models and Mechanisms (RDMM) Network: Connecting Understudied Genes to Model Organisms. <i>American Journal of Human Genetics</i> , 2020, 106, 143-152.	6.2	30
7	Cross-Species Complementation of Nonessential Yeast Genes Establishes Platforms for Testing Inhibitors of Human Proteins. <i>Genetics</i> , 2020, 214, 735-747.	2.9	14
8	The Chromosome Transmission Fidelity Assay for Measuring Chromosome Loss in Yeast. <i>Methods in Molecular Biology</i> , 2018, 1672, 11-19.	0.9	4
9	International Cooperation to Enable the Diagnosis of All Rare Genetic Diseases. <i>American Journal of Human Genetics</i> , 2017, 100, 695-705.	6.2	305
10	Model Organisms Facilitate Rare Disease Diagnosis and Therapeutic Research. <i>Genetics</i> , 2017, 207, 9-27.	2.9	165
11	Synthetic lethality and cancer. <i>Nature Reviews Genetics</i> , 2017, 18, 613-623.	16.3	444
12	Canonical DNA Repair Pathways Influence R-Loop-Driven Genome Instability. <i>Journal of Molecular Biology</i> , 2017, 429, 3132-3138.	4.2	47
13	Overexpression screens identify conserved dosage chromosome instability genes in yeast and human cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 9967-9976.	7.1	67
14	Dosage Mutator Genes in <i>Saccharomyces cerevisiae</i> : A Novel Mutator Mode-of-Action of the Mph1 DNA Helicase. <i>Genetics</i> , 2016, 204, 975-986.	2.9	14
15	Complementation of Yeast Genes with Human Genes as an Experimental Platform for Functional Testing of Human Genetic Variants. <i>Genetics</i> , 2015, 201, 1263-1274.	2.9	77
16	An Updated Collection of Sequence Barcoded Temperature-Sensitive Alleles of Yeast Essential Genes. <i>G3: Genes, Genomes, Genetics</i> , 2015, 5, 1879-1887.	1.8	38
17	Dependence of Human Colorectal Cells Lacking the FBW7 Tumor Suppressor on the Spindle Assembly Checkpoint. <i>Genetics</i> , 2015, 201, 885-895.	2.9	17
18	Genome-Wide Profiling of Yeast DNA:RNA Hybrid Prone Sites with DRIP-Chip. <i>PLoS Genetics</i> , 2014, 10, e1004288.	3.5	189

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19	Synthetic Cytotoxicity: Digenic Interactions with TEL1/ATM Mutations Reveal Sensitivity to Low Doses of Camptothecin. <i>Genetics</i> , 2014, 197, 611-623.	2.9	11
20	Genome Destabilizing Mutator Alleles Drive Specific Mutational Trajectories in <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 2014, 196, 403-412.	2.9	22
21	Glioblastoma Cells Containing Mutations in the Cohesin Component <i>STAG2</i> Are Sensitive to PARP Inhibition. <i>Molecular Cancer Therapeutics</i> , 2014, 13, 724-732.	4.1	65
22	Understanding Rare Disease Pathogenesis: A Grand Challenge for Model Organisms. <i>Genetics</i> , 2014, 198, 443-445.	2.9	8
23	Mechanisms of genome instability induced by RNA-processing defects. <i>Trends in Genetics</i> , 2014, 30, 245-253.	6.7	77
24	Synthetic lethality and cancer: cohesin and PARP at the replication fork. <i>Trends in Genetics</i> , 2013, 29, 290-297.	6.7	31
25	An Evolutionarily Conserved Synthetic Lethal Interaction Network Identifies FEN1 as a Broad-Spectrum Target for Anticancer Therapeutic Development. <i>PLoS Genetics</i> , 2013, 9, e1003254.	3.5	76
26	Biogenesis of RNA Polymerases II and III Requires the Conserved GPN Small GTPases in <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 2013, 193, 853-864.	2.9	45
27	<i>Saccharomyces cerevisiae</i> Genetics Predicts Candidate Therapeutic Genetic Interactions at the Mammalian Replication Fork. <i>G3: Genes, Genomes, Genetics</i> , 2013, 3, 273-282.	1.8	34
28	Synthetic Lethality of Cohesins with PARPs and Replication Fork Mediators. <i>PLoS Genetics</i> , 2012, 8, e1002574.	3.5	63
29	R-loop-mediated genome instability in mRNA cleavage and polyadenylation mutants. <i>Genes and Development</i> , 2012, 26, 163-175.	5.9	195
30	Mutability and mutational spectrum of chromosome transmission fidelity genes. <i>Chromosoma</i> , 2012, 121, 263-275.	2.2	17
31	The Complete Spectrum of Yeast Chromosome Instability Genes Identifies Candidate CIN Cancer Genes and Functional Roles for ASTRA Complex Components. <i>PLoS Genetics</i> , 2011, 7, e1002057.	3.5	156
32	Proteasome Nuclear Activity Affects Chromosome Stability by Controlling the Turnover of Mms22, a Protein Important for DNA Repair. <i>PLoS Genetics</i> , 2010, 6, e1000852.	3.5	49
33	Specific synthetic lethal killing of RAD54B-deficient human colorectal cancer cells by FEN1 silencing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 3276-3281.	7.1	118
34	Synthetic Lethal Genetic Interactions That Decrease Somatic Cell Proliferation in <i>Caenorhabditis elegans</i> Identify the Alternative RFC <sup>CTF18</sup> as a Candidate Cancer Drug Target. <i>Molecular Biology of the Cell</i> , 2009, 20, 5306-5313.	2.1	30
35	Toward a Comprehensive Temperature-Sensitive Mutant Repository of the Essential Genes of <i>Saccharomyces cerevisiae</i> . <i>Molecular Cell</i> , 2008, 30, 248-258.	9.7	189
36	Chromatid cohesion defects may underlie chromosome instability in human colorectal cancers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 3443-3448.	7.1	361

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37	The kinetochore and cancer: what's the connection?. <i>Current Opinion in Cell Biology</i> , 2005, 17, 576-582.	5.4	106
38	In Vivo Characterization of the Nonessential Budding Yeast Anaphase-Promoting Complex/Cyclosome Components Swm1p, Mnd2p and Apc9p. <i>Genetics</i> , 2005, 170, 1045-1062.	2.9	8
39	Identification of Protein Complexes Required for Efficient Sister Chromatid Cohesion. <i>Molecular Biology of the Cell</i> , 2004, 15, 1736-1745.	2.1	221
40	A Robust Toolkit for Functional Profiling of the Yeast Genome. <i>Molecular Cell</i> , 2004, 16, 487-496.	9.7	295
41	Ctf3p, the Mis6 budding yeast homolog, interacts with Mcm22p and Mcm16p at the yeast outer kinetochore. <i>Genes and Development</i> , 2002, 16, 101-113.	5.9	111
42	Synthetic dosage lethality. <i>Methods in Enzymology</i> , 2002, 350, 316-326.	1.0	41
43	Overexpression of B-type cyclins alters chromosomal segregation. <i>Oncogene</i> , 2002, 21, 2051-2057.	5.9	67
44	Identification of RFC(Ctf18p, Ctf8p, Dcc1p). <i>Molecular Cell</i> , 2001, 7, 959-970.	9.7	308
45	Novel Role for a <i>Saccharomyces cerevisiae</i> Nucleoporin, Nup170p, in Chromosome Segregation. <i>Genetics</i> , 2001, 157, 1543-1553.	2.9	48
46	Protein networks built by association. <i>Nature Biotechnology</i> , 2000, 18, 1242-1243.	17.5	38
47	The APC11 RING-H2 Finger Mediates E2-Dependent Ubiquitination. <i>Molecular Biology of the Cell</i> , 2000, 11, 2315-2325.	2.1	167
48	Ctf19p: A Novel Kinetochore Protein in <i>Saccharomyces cerevisiae</i> and a Potential Link between the Kinetochore and Mitotic Spindle. <i>Journal of Cell Biology</i> , 1999, 145, 15-28.	5.2	109
49	What do yeast proteins do?. <i>Nature</i> , 1999, 402, 362-363.	27.8	5
50	Designer deletion strains derived from <i>Saccharomyces cerevisiae</i> S288C: A useful set of strains and plasmids for PCR-mediated gene disruption and other applications. <i>Yeast</i> , 1998, 14, 115-132.	1.7	3,028
51	KINETOCHORES AND THE CHECKPOINT MECHANISM THAT MONITORS FOR DEFECTS IN THE CHROMOSOME SEGREGATION MACHINERY. <i>Annual Review of Genetics</i> , 1998, 32, 307-337.	7.6	112
52	Identification of a Cullin Homology Region in a Subunit of the Anaphase-Promoting Complex. <i>Science</i> , 1998, 279, 1219-1222.	12.6	234
53	The yeast genome and clinical genetics. <i>Clinical Genetics</i> , 1998, 54, 113-116.	2.0	1
54	Designer deletion strains derived from <i>Saccharomyces cerevisiae</i> S288C: A useful set of strains and plasmids for PCR-mediated gene disruption and other applications. , 1998, 14, 115.		17

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55	Accumulation of mRNA Coding for the Ctf13p Kinetochores Subunit of <i>Saccharomyces cerevisiae</i> Depends on the Same Factors That Promote Rapid Decay of Nonsense mRNAs. <i>Genetics</i> , 1998, 150, 1019-1035.	2.9	27
56	Genome cross-referencing and XREFdb: Implications for the identification and analysis of genes mutated in human disease. <i>Nature Genetics</i> , 1997, 15, 339-344.	21.4	82
57	The yeast genome "a common currency". <i>Nature Genetics</i> , 1996, 13, 253-255.	21.4	37
58	Establishing Genetic Interactions by a Synthetic Dosage Lethality Phenotype. <i>Genetics</i> , 1996, 143, 95-102.	2.9	144
59	TEL1, an <i>S. cerevisiae</i> homolog of the human gene mutated in ataxia telangiectasia, is functionally related to the yeast checkpoint gene MEC1. <i>Cell</i> , 1995, 82, 831-840.	28.9	372
60	Alu sequences in RMSA-1 protein?. <i>Nature</i> , 1994, 370, 106-106.	27.8	17
61	Identification of essential components of the <i>S. cerevisiae</i> kinetochore. <i>Cell</i> , 1993, 73, 761-774.	28.9	215
62	Multifunctional yeast high-copy-number shuttle vectors. <i>Gene</i> , 1992, 110, 119-122.	2.2	1,658
63	Recombinational repair of diverged DNAs : a study of homoeologous chromosomes and mammalian YACs in yeast. <i>Molecular Genetics and Genomics</i> , 1992, 234, 65-73.	2.4	41
64	[54] Analysis of chromosome segregation in <i>Saccharomyces cerevisiae</i> . <i>Methods in Enzymology</i> , 1991, 194, 749-773.	1.0	58
65	Trans-kingdom promiscuity. <i>Nature</i> , 1990, 345, 581-582.	27.8	49
66	Expanding family. <i>Nature</i> , 1990, 346, 114-114.	27.8	37
67	[22] Visual assay for chromosome ploidy. <i>Methods in Enzymology</i> , 1987, 155, 351-372.	1.0	68