

Thomas D Petes

List of Publications by Year in descending order

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85
papers

6,989
citations

71102

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64796

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g-index

90
all docs

90
docs citations

90
times ranked

5036
citing authors

#	ARTICLE	IF	CITATIONS
1	Global genomic instability caused by reduced expression of DNA polymerase δ in yeast. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2119588119.	7.1	5
2	The fidelity of DNA replication, particularly on GC-rich templates, is reduced by defects of the Feâ€S cluster in DNA polymerase δ . Nucleic Acids Research, 2021, 49, 5623-5636.	14.5	3
3	Mitotic recombination in yeast: what we know and what we donâ€™t know. Current Opinion in Genetics and Development, 2021, 71, 78-85.	3.3	18
4	Genome-wide mapping of spontaneous genetic alterations in diploid yeast cells. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 28191-28200.	7.1	52
5	Analysis of APOBEC-induced mutations in yeast strains with low levels of replicative DNA polymerases. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 9440-9450.	7.1	22
6	Genome-wide analysis of genomic alterations induced by oxidative DNA damage in yeast. Nucleic Acids Research, 2019, 47, 3521-3535.	14.5	21
7	Guidelines for DNA recombination and repair studies: Cellular assays of DNA repair pathways. Microbial Cell, 2019, 6, 1-64.	3.2	47
8	Cytological and genetic consequences for the progeny of a mitotic catastrophe provoked by Topoisomerase II deficiency. Aging, 2019, 11, 11686-11721.	3.1	4
9	Genome Instability Induced by Low Levels of Replicative DNA Polymerases in Yeast. Genes, 2018, 9, 539.	2.4	22
10	GC content elevates mutation and recombination rates in the yeast <i>Saccharomyces cerevisiae</i> . Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E7109-E7118.	7.1	92
11	Genetic Control of Genomic Alterations Induced in Yeast by Interstitial Telomeric Sequences. Genetics, 2018, 209, 425-438.	2.9	21
12	Properties of Mitotic and Meiotic Recombination in the Tandemly-Repeated CUP1 Gene Cluster in the Yeast <i>Saccharomyces cerevisiae</i> . Genetics, 2017, 206, 785-800.	2.9	17
13	Nanopore sequencing of complex genomic rearrangements in yeast reveals mechanisms of repeat-mediated double-strand break repair. Genome Research, 2017, 27, 2072-2082.	5.5	36
14	Effects of Temperature on the Meiotic Recombination Landscape of the Yeast <i>Saccharomyces cerevisiae</i> . MBio, 2017, 8, .	4.1	17
15	High-resolution mapping of heteroduplex DNA formed during UV-induced and spontaneous mitotic recombination events in yeast. ELife, 2017, 6, .	6.0	18
16	High-Resolution Mapping of Homologous Recombination Events in rad3 Hyper-Recombination Mutants in Yeast. PLoS Genetics, 2016, 12, e1005938.	3.5	8
17	Global analysis of genomic instability caused by DNA replication stress in <i>Saccharomyces cerevisiae</i> . Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E8114-E8121.	7.1	50
18	The Transient Inactivation of the Master Cell Cycle Phosphatase Cdc14 Causes Genomic Instability in Diploid Cells of <i>Saccharomyces cerevisiae</i> . Genetics, 2015, 200, 755-769.	2.9	7

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19	Recombination between Homologous Chromosomes Induced by Unrepaired UV-Generated DNA Damage Requires Mus81p and Is Suppressed by Mms2p. <i>PLoS Genetics</i> , 2015, 11, e1005026.	3.5	12
20	Genome-Destabilizing Effects Associated with Top1 Loss or Accumulation of Top1 Cleavage Complexes in Yeast. <i>PLoS Genetics</i> , 2015, 11, e1005098.	3.5	24
21	Elevated Genome-Wide Instability in Yeast Mutants Lacking RNase H Activity. <i>Genetics</i> , 2015, 201, 963-975.	2.9	60
22	Mre11-Sae2 and RPA Collaborate to Prevent Palindromic Gene Amplification. <i>Molecular Cell</i> , 2015, 60, 500-508.	9.7	59
23	Genome-wide high-resolution mapping of chromosome fragile sites in <i>Saccharomyces cerevisiae</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E2210-8.	7.1	76
24	High-Resolution Mapping of Two Types of Spontaneous Mitotic Gene Conversion Events in <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 2014, 198, 181-192.	2.9	41
25	Structures of Naturally Evolved <i>CUP1</i> Tandem Arrays in Yeast Indicate That These Arrays Are Generated by Unequal Nonhomologous Recombination. <i>G3: Genes, Genomes, Genetics</i> , 2014, 4, 2259-2269.	1.8	46
26	Chromosome rearrangements via template switching between diverged repeated sequences. <i>Genes and Development</i> , 2014, 28, 2394-2406.	5.9	114
27	The Role of Exo1p Exonuclease in DNA End Resection to Generate Gene Conversion Tracts in <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 2014, 197, 1097-1109.	2.9	18
28	Gene Copy-Number Variation in Haploid and Diploid Strains of the Yeast <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 2013, 193, 785-801.	2.9	73
29	Genome rearrangements caused by interstitial telomeric sequences in yeast. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 19866-19871.	7.1	66
30	Genomic deletions and point mutations induced in <i>Saccharomyces cerevisiae</i> by the trinucleotide repeats (GAA _n TTC) associated with Friedreich's ataxia. <i>DNA Repair</i> , 2013, 12, 10-17.	2.8	23
31	Nonrandom Distribution of Interhomolog Recombination Events Induced by Breakage of a Dicentric Chromosome in <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 2013, 194, 69-80.	2.9	16
32	High-Resolution Mapping of Spontaneous Mitotic Recombination Hotspots on the 1.1 Mb Arm of Yeast Chromosome IV. <i>PLoS Genetics</i> , 2013, 9, e1003434.	3.5	84
33	Genome-Wide High-Resolution Mapping of UV-Induced Mitotic Recombination Events in <i>Saccharomyces cerevisiae</i> . <i>PLoS Genetics</i> , 2013, 9, e1003894.	3.5	57
34	Reciprocal uniparental disomy in yeast. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 9947-9952.	7.1	22
35	High-Resolution Genome-Wide Analysis of Irradiated (UV and ¹³⁷ Cs-Rays) Diploid Yeast Cells Reveals a High Frequency of Genomic Loss of Heterozygosity (LOH) Events. <i>Genetics</i> , 2012, 190, 1267-1284.	2.9	71
36	Haploidization in <i>Saccharomyces cerevisiae</i> Induced by a Deficiency in Homologous Recombination. <i>Genetics</i> , 2012, 191, 279-284.	2.9	16

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37	Friedreich's Ataxia (GAA) _n →(TTC) _n Repeats Strongly Stimulate Mitotic Crossovers in <i>Saccharomyces cerevisiae</i> . <i>PLoS Genetics</i> , 2011, 7, e1001270.	3.5	36
38	Mitotic gene conversion events induced in G1-synchronized yeast cells by gamma rays are similar to spontaneous conversion events. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 7383-7388.	7.1	40
39	Chromosome rearrangements and aneuploidy in yeast strains lacking both Tel1p and Mec1p reflect deficiencies in two different mechanisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 11465-11470.	7.1	42
40	A Fine-Structure Map of Spontaneous Mitotic Crossovers in the Yeast <i>Saccharomyces cerevisiae</i> . <i>PLoS Genetics</i> , 2009, 5, e1000410.	3.5	104
41	Chromosome Aberrations Resulting From Double-Strand DNA Breaks at a Naturally Occurring Yeast Fragile Site Composed of Inverted Ty Elements Are Independent of Mre11p and Sae2p. <i>Genetics</i> , 2009, 183, 423-439.	2.9	20
42	Chromosome fragility at GAA tracts in yeast depends on repeat orientation and requires mismatch repair. <i>EMBO Journal</i> , 2008, 27, 2896-2906.	7.8	98
43	High Rates of "Unselected" Aneuploidy and Chromosome Rearrangements in <i>tel1 mec1</i> Haploid Yeast Strains. <i>Genetics</i> , 2008, 179, 237-247.	2.9	28
44	Reduced Levels of DNA Polymerase δ Induce Chromosome Fragile Site Instability in Yeast. <i>Molecular and Cellular Biology</i> , 2008, 28, 5359-5368.	2.3	49
45	Role of Proliferating Cell Nuclear Antigen Interactions in the Mismatch Repair-Dependent Processing of Mitotic and Meiotic Recombination Intermediates in Yeast. <i>Genetics</i> , 2008, 178, 1221-1236.	2.9	26
46	Low Levels of DNA Polymerase Alpha Induce Mitotic and Meiotic Instability in the Ribosomal DNA Gene Cluster of <i>Saccharomyces cerevisiae</i> . <i>PLoS Genetics</i> , 2008, 4, e1000105.	3.5	26
47	Double-strand breaks associated with repetitive DNA can reshape the genome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 11845-11850.	7.1	216
48	Inverted DNA Repeats Channel Repair of Distant Double-Strand Breaks into Chromatid Fusions and Chromosomal Rearrangements. <i>Molecular and Cellular Biology</i> , 2007, 27, 2601-2614.	2.3	96
49	Loss of a histone deacetylase dramatically alters the genomic distribution of Spo11p-catalyzed DNA breaks in <i>Saccharomyces cerevisiae</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 3955-3960.	7.1	72
50	Ninety-Six Haploid Yeast Strains With Individual Disruptions of Open Reading Frames Between YOR097C and YOR192C, Constructed for the <i>Saccharomyces</i> Genome Deletion Project, Have an Additional Mutation in the Mismatch Repair Gene MSH3. <i>Genetics</i> , 2007, 177, 1951-1953.	2.9	24
51	The Pattern of Gene Amplification Is Determined by the Chromosomal Location of Hairpin-Capped Breaks. <i>Cell</i> , 2006, 125, 1283-1296.	28.9	144
52	Recombination between retrotransposons as a source of chromosome rearrangements in the yeast <i>Saccharomyces cerevisiae</i> . <i>DNA Repair</i> , 2006, 5, 1010-1020.	2.8	129
53	Global Analysis of the Relationship between the Binding of the Bas1p Transcription Factor and Meiosis-Specific Double-Strand DNA Breaks in <i>Saccharomyces cerevisiae</i> . <i>Molecular and Cellular Biology</i> , 2006, 26, 1014-1027.	2.3	64
54	Analysis of the Proteins Involved in the in Vivo Repair of Base-Base Mismatches and Four-Base Loops Formed During Meiotic Recombination in the Yeast <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 2006, 173, 1223-1239.	2.9	20

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55	Selection and analysis of spontaneous reciprocal mitotic cross-overs in <i>Saccharomyces cerevisiae</i> . Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 12819-12824.	7.1	65
56	Variation in efficiency of DNA mismatch repair at different sites in the yeast genome. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 8639-8643.	7.1	79
57	Chromosomal Translocations in Yeast Induced by Low Levels of DNA Polymerase. Cell, 2005, 120, 587-598.	28.9	282
58	Genetic regulation of telomere-telomere fusions in the yeast <i>Saccharomyces cerevisiae</i> . Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 10854-10859.	7.1	92
59	Patterns of Heteroduplex Formation Associated With the Initiation of Meiotic Recombination in the Yeast <i>Saccharomyces cerevisiae</i> . Genetics, 2003, 165, 47-63.	2.9	63
60	Regulation of Genome Stability by <i>TEL1</i> and <i>MEC1</i> , Yeast Homologs of the Mammalian ATM and ATR Genes. Genetics, 2002, 161, 493-507.	2.9	103
61	Alleles of the Yeast PMS1 Mismatch-Repair Gene That Differentially Affect Recombination- and Replication-Related Processes. Genetics, 2002, 162, 1131-1145.	2.9	28
62	Context Dependence of Meiotic Recombination Hotspots in Yeast: The Relationship Between Recombination Activity of a Reporter Construct and Base Composition. Genetics, 2002, 162, 2049-2052.	2.9	40
63	Meiotic recombination hot spots and cold spots. Nature Reviews Genetics, 2001, 2, 360-369.	16.3	469
64	The <i>Saccharomyces cerevisiae</i> Suppressor of Choline Sensitivity (<i>SCS2</i>) Gene Is a Multicopy Suppressor of <i>mec1</i> Telomeric Silencing Defects. Genetics, 2001, 158, 145-154.	2.9	20
65	Identification of a Mutant DNA Polymerase $\hat{\Gamma}$ in <i>Saccharomyces cerevisiae</i> With an Antimutator Phenotype for Frameshift Mutations. Genetics, 2001, 158, 177-186.	2.9	27
66	Meiotic Recombination Involving Heterozygous Large Insertions in <i>Saccharomyces cerevisiae</i> : Formation and Repair of Large, Unpaired DNA Loops. Genetics, 2001, 158, 1457-1476.	2.9	65
67	Increased Rates of Genomic Deletions Generated by Mutations in the Yeast Gene Encoding DNA Polymerase $\hat{\Gamma}$ or by Decreases in the Cellular Levels of DNA Polymerase $\hat{\Gamma}$. Molecular and Cellular Biology, 2000, 20, 7490-7504.	2.3	87
68	Decreased Meiotic Intergenic Recombination and Increased Meiosis I Nondisjunction in <i>exo1</i> Mutants of <i>Saccharomyces cerevisiae</i> . Genetics, 2000, 156, 1549-1557.	2.9	71
69	The Yeast HSM3 Gene Is Not Involved in DNA Mismatch Repair in Rapidly Dividing Cells. Genetics, 2000, 154, 491-493.	2.9	4
70	Interactions of <i>TLC1</i> (Which Encodes the RNA Subunit of Telomerase), <i>TEL1</i> , and <i>MEC1</i> in Regulating Telomere Length in the Yeast <i>Saccharomyces cerevisiae</i> . Molecular and Cellular Biology, 1999, 19, 6065-6075.	2.3	248
71	A Mutation of the Yeast Gene Encoding PCNA Destabilizes Both Microsatellite and Minisatellite DNA Sequences. Genetics, 1999, 151, 511-519.	2.9	47
72	Maximal Stimulation of Meiotic Recombination by a Yeast Transcription Factor Requires the Transcription Activation Domain and a DNA-Binding Domain. Genetics, 1999, 152, 101-115.	2.9	38

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73	Dependence of the Regulation of Telomere Length on the Type of Subtelomeric Repeat in the Yeast <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 1999, 152, 1531-1541.	2.9	88
74	Destabilization of Yeast Micro- and Minisatellite DNA Sequences by Mutations Affecting a Nuclease Involved in Okazaki Fragment Processing (<i>rad27</i>) and DNA Polymerase δ (<i>pol3-t</i>). <i>Molecular and Cellular Biology</i> , 1998, 18, 2779-2788.	2.3	189
75	Conversion-Type and Restoration-Type Repair of DNA Mismatches Formed During Meiotic Recombination in <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 1998, 149, 1693-1705.	2.9	31
76	Repair of DNA loops involves DNA-mismatch and nucleotide-excision repair proteins. <i>Nature</i> , 1997, 387, 929-931.	27.8	161
77	Destabilization of Simple Repetitive DNA Sequences by Transcription in Yeast. <i>Genetics</i> , 1996, 143, 713-721.	2.9	99
78	Fine-Structure Mapping of Meiosis-Specific Double-Strand DNA Breaks at a Recombination Hotspot Associated With an Insertion of Telomeric Sequences Upstream of the <i>HIS4</i> Locus in Yeast. <i>Genetics</i> , 1996, 143, 1115-1125.	2.9	50
79	<i>TEL1</i> , a gene involved in controlling telomere length in <i>S. cerevisiae</i> , is homologous to the human ataxia telangiectasia gene. <i>Cell</i> , 1995, 82, 823-829.	28.9	401
80	Destabilization of tracts of simple repetitive DNA in yeast by mutations affecting DNA mismatch repair. <i>Nature</i> , 1993, 365, 274-276.	27.8	1,061
81	A promoter deletion reduces the rate of mitotic, but not meiotic, recombination at the <i>HIS4</i> locus in yeast. <i>Current Genetics</i> , 1992, 21, 109-116.	1.7	93
82	Palindromic sequences in heteroduplex DNA inhibit mismatch repair in yeast. <i>Nature</i> , 1989, 340, 318-320.	27.8	193
83	CHROMOSOMAL TRANSLOCATIONS GENERATED BY HIGH-FREQUENCY MEIOTIC RECOMBINATION BETWEEN REPEATED YEAST GENES. <i>Genetics</i> , 1986, 114, 731-752.	2.9	178
84	Unequal sister-strand recombination within yeast ribosomal DNA does not require the <i>RAD 52</i> gene product. <i>Current Genetics</i> , 1981, 3, 125-132.	1.7	43
85	Ribodysgenesis: sudden genome instability in the yeast <i>Saccharomyces cerevisiae</i> arising from RNase H2 cleavage at genomic-embedded ribonucleotides. <i>Nucleic Acids Research</i> , 0, , .	14.5	2