

# Wayne P Wahls

## List of Publications by Year in descending order

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41  
papers

1,354  
citations

516710

16  
h-index

345221

36  
g-index

44  
all docs

44  
docs citations

44  
times ranked

1200  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hypervariable minisatellite DNA is a hotspot for homologous recombination in human cells. <i>Cell</i> , 1990, 60, 95-103.	28.9	237
2	High-efficiency gene targeting in <i>Schizosaccharomyces pombe</i> using a modular, PCR-based approach with long tracts of flanking homology. <i>Yeast</i> , 1999, 15, 1419-1427.	1.7	167
3	Roles of histone acetylation and chromatin remodeling factor in a meiotic recombination hotspot. <i>EMBO Journal</i> , 2004, 23, 1792-1803.	7.8	146
4	A CRISPR-based approach for proteomic analysis of a single genomic locus. <i>Epigenetics</i> , 2014, 9, 1207-1211.	2.7	71
5	Distinct functions of <i>S. pombe</i> Rec12 (Spo11) protein and Rec12-dependent crossover recombination (chiasmata) in meiosis I; and a requirement for Rec12 in meiosis II. <i>Cell &amp; Chromosome</i> , 2002, 1, 1.	2.0	62
6	Meiotic Chromosome Dynamics Dependent Upon the <i>rec8+</i> , <i>rec10+</i> and <i>rec11+</i> Genes of the Fission Yeast <i>Schizosaccharomyces pombe</i> . <i>Genetics</i> , 1999, 153, 57-68.	2.9	59
7	Two hypervariable minisatellite DNA binding proteins. <i>Nucleic Acids Research</i> , 1991, 19, 3269-3274.	14.5	52
8	Regulation of the Mts1-Mts2-Dependent <i>ade6-M26</i> Meiotic Recombination Hot Spot and Developmental Decisions by the Spc1 Mitogen-Activated Protein Kinase of Fission Yeast. <i>Molecular and Cellular Biology</i> , 1998, 18, 7575-7583.	2.3	50
9	Discrete DNA sites regulate global distribution of meiotic recombination. <i>Trends in Genetics</i> , 2010, 26, 202-208.	6.7	42
10	Atf1-Pcr1-M26 Complex Links Stress-activated MAPK and cAMP-dependent Protein Kinase Pathways via Chromatin Remodeling of <i>cgs2+</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 50857-50863.	3.4	41
11	Distinct regions of ATF/CREB proteins Atf1 and Pcr1 control recombination hotspot <i>ade6-M26</i> and the osmotic stress response. <i>Nucleic Acids Research</i> , 2008, 36, 2838-2851.	14.5	40
12	Meiotic Recombination Hotspots of Fission Yeast Are Directed to Loci that Express Non-Coding RNA. <i>PLoS ONE</i> , 2008, 3, e2887.	2.5	32
13	Rapid, efficient and precise allele replacement in the fission yeast <i>Schizosaccharomyces pombe</i> . <i>Current Genetics</i> , 2014, 60, 109-119.	1.7	24
14	Meiotic recombination protein Rec12: functional conservation, crossover homeostasis and early crossover/non-crossover decision. <i>Nucleic Acids Research</i> , 2011, 39, 1460-1472.	14.5	23
15	The NIH must reduce disparities in funding to maximize its return on investments from taxpayers. <i>ELife</i> , 2018, 7, .	6.0	23
16	New paradigms for conserved, multifactorial, cis-acting regulation of meiotic recombination. <i>Nucleic Acids Research</i> , 2012, 40, 9983-9989.	14.5	22
17	DNA Sequence-Mediated, Evolutionarily Rapid Redistribution of Meiotic Recombination Hotspots. <i>Genetics</i> , 2011, 189, 685-694.	2.9	21
18	Chromatin-mediated regulators of meiotic recombination revealed by proteomics of a recombination hotspot. <i>Epigenetics and Chromatin</i> , 2018, 11, 64.	3.9	20

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19	Biases in grant proposal success rates, funding rates and award sizes affect the geographical distribution of funding for biomedical research. <i>PeerJ</i> , 2016, 4, e1917.	2.0	19
20	Centromere Mapping Functions for Aneuploid Meiotic Products: Analysis of <i>rec8</i> , <i>rec10</i> and <i>rec11</i> Mutants of the Fission Yeast <i>Schizosaccharomyces pombe</i> . <i>Genetics</i> , 1999, 153, 49-55.	2.9	18
21	In Vivo Metabolic Tracing Demonstrates the Site-Specific Contribution of Hepatic Ethanol Metabolism to Histone Acetylation. <i>Alcoholism: Clinical and Experimental Research</i> , 2018, 42, 1909-1923.	2.4	17
22	Opinion: The National Institutes of Health needs to better balance funding distributions among US institutions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 13150-13154.	7.1	16
23	Purification, folding, and characterization of <i>Rec12 (Spo11)</i> meiotic recombinase of fission yeast. <i>Protein Expression and Purification</i> , 2004, 38, 136-144.	1.3	15
24	Phosphorylation-Independent Regulation of <i>Atf1</i> -Promoted Meiotic Recombination by Stress-Activated, <i>p38</i> Kinase <i>Spc1</i> of Fission Yeast. <i>PLoS ONE</i> , 2009, 4, e5533.	2.5	15
25	Meiotic chromosome segregation mutants identified by insertional mutagenesis of fission yeast <i>Schizosaccharomyces pombe</i> ; tandem-repeat, single-site integrations. <i>Nucleic Acids Research</i> , 2004, 32, 4400-4410.	14.5	13
26	A Stress-Activated, <i>p38</i> Mitogen-Activated Protein Kinase-ATF/CREB Pathway Regulates Posttranscriptional, Sequence-Dependent Decay of Target RNAs. <i>Molecular and Cellular Biology</i> , 2013, 33, 3026-3035.	2.3	13
27	Diverse DNA Sequence Motifs Activate Meiotic Recombination Hotspots Through a Common Chromatin Remodeling Pathway. <i>Genetics</i> , 2019, 213, 789-803.	2.9	13
28	Binding of the transcription factor <i>Atf1</i> to promoters serves as a barrier to phase nucleosome arrays and avoid cryptic transcription. <i>Nucleic Acids Research</i> , 2014, 42, 10351-10359.	14.5	11
29	Molecular mechanisms for environmentally induced and evolutionarily rapid redistribution (plasticity) of meiotic recombination. <i>Genetics</i> , 2022, 220, .	2.9	11
30	Accurate and Sensitive Quantitation of the Dynamic Heat Shock Proteome Using Tandem Mass Tags. <i>Journal of Proteome Research</i> , 2020, 19, 1183-1195.	3.7	9
31	Recombination hotspot activity of hypervariable minisatellite DNA requires minisatellite DNA binding proteins. <i>Somatic Cell and Molecular Genetics</i> , 1998, 24, 41-51.	0.7	8
32	A DNA binding motif of meiotic recombinase <i>Rec12 (Spo11)</i> defined by essential glycine-202, and persistence of <i>Rec12</i> protein after completion of recombination. <i>Gene</i> , 2005, 356, 77-84.	2.2	8
33	Low-copy episomal vector <i>pFY20</i> and high-saturation coverage genomic libraries for the fission yeast <i>Schizosaccharomyces pombe</i> . <i>Yeast</i> , 2008, 25, 643-650.	1.7	8
34	NIH's ineffective funding policies. <i>Science</i> , 2017, 356, 1132-1133.	12.6	5
35	Nonsense codon suppression in fission yeast due to mutations of <i>tRNA<sup>Ser.11</sup></i> and translation release factor <i>Sup35 (eRF3)</i> . <i>Current Genetics</i> , 2015, 61, 165-173.	1.7	4
36	High-efficiency gene targeting in <i>Schizosaccharomyces pombe</i> using a modular, PCR-based approach with long tracts of flanking homology. , 1999, 15, 1419.		3

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37	Adaptive Control of the Meiotic Recombination Landscape by DNA Site-dependent Hotspots With Implications for Evolution. <i>Frontiers in Genetics</i> , 0, 13, .	2.3	3
38	Targeted Forward Genetics: Population-Scale Analyses of Allele Replacements Spanning Thousands of Base Pairs in Fission Yeast. <i>G3: Genes, Genomes, Genetics</i> , 2019, 9, 4097-4106.	1.8	2
39	Regulation of meiotic recombination by a multifunctional ATF/CREB protein. <i>FASEB Journal</i> , 2009, 23, 656.1.	0.5	2
40	Distinct domains of Atf1â€Pcr1 heterodimer activate and repress hotspot meiotic recombination and osmoregulation. <i>FASEB Journal</i> , 2007, 21, A292.	0.5	0
41	A stressâ€activated, p38 MAPKâ€ATF/CREB pathway regulates the postâ€transcriptional decay of target mRNAs. <i>FASEB Journal</i> , 2013, 27, 992.1.	0.5	0