Douglas K Bishop

List of Publications by Year
in descending order

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38 papers	4,914 citations	201385 27 h-index	329751 37 g-index
39 all docs	39 docs citations	39 times ranked	4904 citing authors

#	Article	IF	Citations
1	DMC1: A meiosis-specific yeast homolog of E. coli recA required for recombination, synaptonemal complex formation, and cell cycle progression. Cell, 1992, 69, 439-456.	13.5	1,201
2	RecA homologs Dmc1 and Rad51 interact to form multiple nuclear complexes prior to meiotic chromosome synapsis. Cell, 1994, 79, 1081-1092.	13.5	482
3	A meiotic recombination checkpoint controlled by mitotic checkpoint genes. Nature, 1996, 383, 840-843.	13.7	334
4	Early Decision. Cell, 2004, 117, 9-15.	13.5	323
5	Rad51 Is an Accessory Factor for Dmc1-Mediated Joint Molecule Formation During Meiosis. Science, 2012, 337, 1222-1225.	6.0	280
6	Xrcc3 Is Required for Assembly of Rad51 Complexes in Vivo. Journal of Biological Chemistry, 1998, 273, 21482-21488.	1.6	237
7	DNA Strand Exchange and RecA Homologs in Meiosis. Cold Spring Harbor Perspectives in Biology, 2015, 7, a016659.	2.3	186
8	Saccharomyces cerevisiae recA homologues RAD51 and DMC1â€ƒhave both distinct and overlapping roles in meiotic recombination. Genes To Cells, 2003, 2, 615-629.	0.5	183
9	Synthesis-Dependent Strand Annealing in Meiosis. PLoS Biology, 2007, 5, e299.	2.6	144
10	Saccharomyces cerevisiae Checkpoint Genes MEC1, RAD17 and RAD24 Are Required for Normal Meiotic Recombination Partner Choice. Genetics, 1999, 153, 607-620.	1.2	140
11	Saccharomyces cerevisiae Dmc1 Protein Promotes Renaturation of Single-strand DNA (ssDNA) and Assimilation of ssDNA into Homologous Super-coiled Duplex DNA. Journal of Biological Chemistry, 2001, 276, 41906-41912.	1.6	129
12	Meiotic Crossover Control by Concerted Action of Rad51-Dmc1 in Homolog Template Bias and Robust Homeostatic Regulation. PLoS Genetics, 2013, 9, e1003978.	1.5	127
13	A comparative analysis of Dmc1 and Rad51 nucleoprotein filaments. Nucleic Acids Research, 2008, 36, 4057-4066.	6.5	103
14	Swi2/Snf2-Related Translocases Prevent Accumulation of Toxic Rad51 Complexes during Mitotic Growth. Molecular Cell, 2010, 39, 862-872.	4.5	92
15	Gradual Implementation of the Meiotic Recombination Program via Checkpoint Pathways Controlled by Global DSB Levels. Molecular Cell, 2015, 57, 797-811.	4.5	90
16	High copy number suppression of the meiotic arrest caused by admc1mutation:REC114imposes an early recombination block andRAD54promotes aDMC1-independent DSB repair pathway. Genes To Cells, 1999, 4, 425-444.	0.5	89
17	Non-enzymatic roles of human RAD51 at stalled replication forks. Nature Communications, 2019, 10, 4410.	5.8	86
18	Small Rad51 and Dmc1 Complexes Often Co-occupy Both Ends of a Meiotic DNA Double Strand Break. PLoS Genetics, 2015, 11, e1005653.	1.5	79

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19	Crossover Interference in Saccharomyces cerevisiae Requires a TID1/RDH54- and DMC1-Dependent Pathway. Genetics, 2003, 163, 1273-1286.	1.2	75
20	RAD54 family translocases counter genotoxic effects of RAD51 in human tumor cells. Nucleic Acids Research, 2015, 43, 3180-3196.	6.5	72
21	Tid1/Rdh54 promotes dissociation of Dmc1 from nonrecombinogenic sites on meiotic chromatin. Genes and Development, 2006, 20, 2593-2604.	2.7	71
22	The Mei5-Sae3 Protein Complex Mediates Dmc1 Activity in Saccharomyces cerevisiae. Journal of Biological Chemistry, 2009, 284, 11766-11770.	1.6	48
23	Caffeine impairs resection during DNA break repair by reducing the levels of nucleases Sae2 and Dna2. Nucleic Acids Research, 2015, 43, 6889-6901.	6.5	43
24	The RAD51-Stimulatory Compound RS-1 Can Exploit the RAD51 Overexpression That Exists in Cancer Cells and Tumors. Cancer Research, 2014, 74, 3546-3555.	0.4	40
25	Nine novel conserved motifs in BRCA1 identified by the chicken orthologue. Oncogene, 2001, 20, 4433-4438.	2.6	39
26	DNA damage response clamp 9-1-1 promotes assembly of ZMM proteins for formation of crossovers and synaptonemal complex. Journal of Cell Science, 2015, 128, 1494-506.	1.2	37
27	The Third Exon of the Budding Yeast Meiotic Recombination Gene HOP2 Is Required for Calcium-dependent and Recombinase Dmc1-specific Stimulation of Homologous Strand Assimilation. Journal of Biological Chemistry, 2014, 289, 18076-18086.	1.6	32
28	RPA resolves conflicting activities of accessory proteins during reconstitution of Dmc1-mediated meiotic recombination. Nucleic Acids Research, 2019, 47, 747-761.	6.5	24
29	Rad51, the lead in mitotic recombinational DNA repair, plays a supporting role in budding yeast meiosis. Cell Cycle, 2012, 11, 4105-4106.	1.3	22
30	The ATPase activity of E. coli RecA prevents accumulation of toxic complexes formed by erroneous binding to undamaged double stranded DNA. Nucleic Acids Research, 2018, 46, 9510-9523.	6.5	22
31	Caffeine inhibits gene conversion by displacing Rad51 from ssDNA. Nucleic Acids Research, 2015, 43, 6902-6918.	6.5	17
32	Surface Spreading and Immunostaining of Yeast Chromosomes. Journal of Visualized Experiments, 2015, , e53081.	0.2	16
33	Distinct Functions in Regulation of Meiotic Crossovers for DNA Damage Response Clamp Loader Rad24(Rad17) and Mec1(ATR) Kinase. Genetics, 2019, 213, 1255-1269.	1.2	13
34	How strand exchange protein function benefits from ATP hydrolysis. Current Opinion in Genetics and Development, 2021, 71, 120-128.	1.5	11
35	A mutant form of Dmc1 that bypasses the requirement for accessory protein Mei5-Sae3 reveals independent activities of Mei5-Sae3 and Rad51 in Dmc1 filament stability. PLoS Genetics, 2019, 15, e1008217.	1.5	10
36	Multiple Mechanisms of Meiotic Recombination. Cell, 2006, 127, 1095-1097.	13.5	9

#	Article	IF	Citations
37	Purification of Saccharomyces cerevisiae Homologous Recombination Proteins Dmc1 and Rdh54/Tid1 and a Fluorescent D-Loop Assay. Methods in Enzymology, 2018, 600, 307-320.	0.4	6
38	Meiosis in Quarantine discussions lead to an action plan to increase diversity and inclusion within the genetics community. PLoS Genetics, 2021, 17, e1009648.	1.5	0