

Douglas K Bishop

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37
papers

3,942
citations

25
h-index

39
g-index

39
ext. papers

4,459
ext. citations

15.6
avg, IF

5.33
L-index

#	Paper	IF	Citations
37	DMC1: a meiosis-specific yeast homolog of E. coli recA required for recombination, synaptonemal complex formation, and cell cycle progression. <i>Cell</i> , 1992 , 69, 439-56	56.2	1018
36	RecA homologs Dmc1 and Rad51 interact to form multiple nuclear complexes prior to meiotic chromosome synapsis. <i>Cell</i> , 1994 , 79, 1081-92	56.2	405
35	Early decision; meiotic crossover interference prior to stable strand exchange and synapsis. <i>Cell</i> , 2004 , 117, 9-15	56.2	288
34	A meiotic recombination checkpoint controlled by mitotic checkpoint genes. <i>Nature</i> , 1996 , 383, 840-3	50.4	284
33	Xrcc3 is required for assembly of Rad51 complexes in vivo. <i>Journal of Biological Chemistry</i> , 1998 , 273, 21482-8	5.4	223
32	Rad51 is an accessory factor for Dmc1-mediated joint molecule formation during meiosis. <i>Science</i> , 2012 , 337, 1222-5	33.3	194
31	Saccharomyces cerevisiae recA homologues RAD51 and DMC1 have both distinct and overlapping roles in meiotic recombination. <i>Genes To Cells</i> , 1997 , 2, 615-29	2.3	154
30	DNA strand exchange and RecA homologs in meiosis. <i>Cold Spring Harbor Perspectives in Biology</i> , 2014 , 7, a016659	10.2	132
29	Saccharomyces cerevisiae checkpoint genes MEC1, RAD17 and RAD24 are required for normal meiotic recombination partner choice. <i>Genetics</i> , 1999 , 153, 607-20	4	114
28	Saccharomyces cerevisiae Dmc1 protein promotes renaturation of single-strand DNA (ssDNA) and assimilation of ssDNA into homologous super-coiled duplex DNA. <i>Journal of Biological Chemistry</i> , 2001 , 276, 41906-12	5.4	109
27	Synthesis-dependent strand annealing in meiosis. <i>PLoS Biology</i> , 2007 , 5, e299	9.7	102
26	Meiotic crossover control by concerted action of Rad51-Dmc1 in homolog template bias and robust homeostatic regulation. <i>PLoS Genetics</i> , 2013 , 9, e1003978	6	98
25	A comparative analysis of Dmc1 and Rad51 nucleoprotein filaments. <i>Nucleic Acids Research</i> , 2008 , 36, 4057-66	20.1	84
24	High copy number suppression of the meiotic arrest caused by a dmc1 mutation: REC114 imposes an early recombination block and RAD54 promotes a DMC1-independent DSB repair pathway. <i>Genes To Cells</i> , 1999 , 4, 425-44	2.3	76
23	Gradual implementation of the meiotic recombination program via checkpoint pathways controlled by global DSB levels. <i>Molecular Cell</i> , 2015 , 57, 797-811	17.6	67
22	Swi2/Snf2-related translocases prevent accumulation of toxic Rad51 complexes during mitotic growth. <i>Molecular Cell</i> , 2010 , 39, 862-72	17.6	65
21	Crossover interference in Saccharomyces cerevisiae requires a TID1/RDH54- and DMC1-dependent pathway. <i>Genetics</i> , 2003 , 163, 1273-86	4	59

20	Small Rad51 and Dmc1 Complexes Often Co-occupy Both Ends of a Meiotic DNA Double Strand Break. <i>PLoS Genetics</i> , 2015 , 11, e1005653	6	57
19	Tid1/Rdh54 promotes dissociation of Dmc1 from nonrecombinogenic sites on meiotic chromatin. <i>Genes and Development</i> , 2006 , 20, 2593-604	12.6	55
18	Non-enzymatic roles of human RAD51 at stalled replication forks. <i>Nature Communications</i> , 2019 , 10, 44107.4	10.4	48
17	The Mei5-Sae3 protein complex mediates Dmc1 activity in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2009 , 284, 11766-70	5.4	38
16	Nine novel conserved motifs in BRCA1 identified by the chicken orthologue. <i>Oncogene</i> , 2001 , 20, 4433-89.2	9.2	36
15	RAD54 family translocases counter genotoxic effects of RAD51 in human tumor cells. <i>Nucleic Acids Research</i> , 2015 , 43, 3180-96	20.1	35
14	Caffeine impairs resection during DNA break repair by reducing the levels of nucleases Sae2 and Dna2. <i>Nucleic Acids Research</i> , 2015 , 43, 6889-901	20.1	35
13	The RAD51-stimulatory compound RS-1 can exploit the RAD51 overexpression that exists in cancer cells and tumors. <i>Cancer Research</i> , 2014 , 74, 3546-55	10.1	32
12	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. <i>Journal of Biological Chemistry</i> , 2014 , 289, 18076-86	5.4	25
11	DNA damage response clamp 9-1-1 promotes assembly of ZMM proteins for formation of crossovers and synaptonemal complex. <i>Journal of Cell Science</i> , 2015 , 128, 1494-506	5.3	24
10	The ATPase activity of <i>E. coli</i> RecA prevents accumulation of toxic complexes formed by erroneous binding to undamaged double stranded DNA. <i>Nucleic Acids Research</i> , 2018 , 46, 9510-9523	20.1	16
9	Caffeine inhibits gene conversion by displacing Rad51 from ssDNA. <i>Nucleic Acids Research</i> , 2015 , 43, 6902-18	18	11
8	RPA resolves conflicting activities of accessory proteins during reconstitution of Dmc1-mediated meiotic recombination. <i>Nucleic Acids Research</i> , 2019 , 47, 747-761	20.1	11
7	Surface Spreading and Immunostaining of Yeast Chromosomes. <i>Journal of Visualized Experiments</i> , 2015 , e53081	1.6	10
6	Multiple mechanisms of meiotic recombination. <i>Cell</i> , 2006 , 127, 1095-7	56.2	8
5	Distinct Functions in Regulation of Meiotic Crossovers for DNA Damage Response Clamp Loader Rad24(Rad17) and Mec1(ATR) Kinase. <i>Genetics</i> , 2019 , 213, 1255-1269	4	7
4	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. <i>PLoS Genetics</i> , 2019 , 15, e1008217	6.2	3
3	Purification of <i>Saccharomyces cerevisiae</i> Homologous Recombination Proteins Dmc1 and Rdh54/Tid1 and a Fluorescent D-Loop Assay. <i>Methods in Enzymology</i> , 2018 , 600, 307-320	1.7	3

- 2 How strand exchange protein function benefits from ATP hydrolysis. *Current Opinion in Genetics and Development*, **2021**, 71, 120-128 4.9 1
- 1 Meiosis in Quarantine discussions lead to an action plan to increase diversity and inclusion within the genetics community. *PLoS Genetics*, **2021**, 17, e1009648 6