

Stephen C West

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181
papers

20,562
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h-index

142
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187
ext. papers

22,298
ext. citations

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L-index

#	Paper	IF	Citations
181	Molecular views of recombination proteins and their control. <i>Nature Reviews Molecular Cell Biology</i> , 2003 , 4, 435-45	48.7	774
180	DNA interstrand crosslink repair and cancer. <i>Nature Reviews Cancer</i> , 2011 , 11, 467-80	31.3	691
179	Human Rad51 protein promotes ATP-dependent homologous pairing and strand transfer reactions in vitro. <i>Cell</i> , 1996 , 87, 757-66	56.2	590
178	Role of BRCA2 in control of the RAD51 recombination and DNA repair protein. <i>Molecular Cell</i> , 2001 , 7, 273-82	17.6	540
177	Role of the human RAD51 protein in homologous recombination and double-stranded-break repair. <i>Trends in Biochemical Sciences</i> , 1998 , 23, 247-51	10.3	443
176	Poly(ADP-ribose)-dependent regulation of DNA repair by the chromatin remodeling enzyme ALC1. <i>Science</i> , 2009 , 325, 1240-3	33.3	416
175	XPG endonuclease makes the 3Qncision in human DNA nucleotide excision repair. <i>Nature</i> , 1994 , 371, 432-5	50.4	404
174	Processing of recombination intermediates by the RuvABC proteins. <i>Annual Review of Genetics</i> , 1997 , 31, 213-44	14.5	402
173	Role of RecA protein spiral filaments in genetic recombination. <i>Nature</i> , 1984 , 309, 215-9	50.4	361
172	CDK-dependent phosphorylation of BRCA2 as a regulatory mechanism for recombinational repair. <i>Nature</i> , 2005 , 434, 598-604	50.4	350
171	Enzymes and molecular mechanisms of genetic recombination. <i>Annual Review of Biochemistry</i> , 1992 , 61, 603-40	29.1	344
170	Werner@ syndrome protein (WRN) migrates Holliday junctions and co-localizes with RPA upon replication arrest. <i>EMBO Reports</i> , 2000 , 1, 80-4	6.5	343
169	Synergistic actions of Rad51 and Rad52 in recombination and DNA repair. <i>Nature</i> , 1998 , 391, 401-4	50.4	338
168	Poly(ADP-ribose)-binding zinc finger motifs in DNA repair/checkpoint proteins. <i>Nature</i> , 2008 , 451, 81-5	50.4	313
167	Identification of Holliday junction resolvases from humans and yeast. <i>Nature</i> , 2008 , 456, 357-61	50.4	307
166	The neurodegenerative disease protein aprataxin resolves abortive DNA ligation intermediates. <i>Nature</i> , 2006 , 443, 713-6	50.4	294
165	Identification and purification of two distinct complexes containing the five RAD51 paralogs. <i>Genes and Development</i> , 2001 , 15, 3296-307	12.6	273

164	RTEL1 maintains genomic stability by suppressing homologous recombination. <i>Cell</i> , 2008 , 135, 261-71	56.2	270
163	RAD51C is required for Holliday junction processing in mammalian cells. <i>Science</i> , 2004 , 303, 243-6	33.3	270
162	Defective DNA repair and neurodegenerative disease. <i>Cell</i> , 2007 , 130, 991-1004	56.2	254
161	Human DNA polymerase eta promotes DNA synthesis from strand invasion intermediates of homologous recombination. <i>Molecular Cell</i> , 2005 , 20, 783-92	17.6	254
160	Binding of double-strand breaks in DNA by human Rad52 protein. <i>Nature</i> , 1999 , 398, 728-31	50.4	251
159	ATP-dependent branch migration of Holliday junctions promoted by the RuvA and RuvB proteins of <i>E. coli</i> . <i>Cell</i> , 1992 , 69, 1171-80	56.2	245
158	Identification of KIAA1018/FAN1, a DNA repair nuclease recruited to DNA damage by monoubiquitinated FANCD2. <i>Cell</i> , 2010 , 142, 65-76	56.2	243
157	Identification of FAAP24, a Fanconi anemia core complex protein that interacts with FANCM. <i>Molecular Cell</i> , 2007 , 25, 331-43	17.6	235
156	Regulatory control of the resolution of DNA recombination intermediates during meiosis and mitosis. <i>Cell</i> , 2011 , 147, 158-72	56.2	229
155	Structural and functional relationships of the XPF/MUS81 family of proteins. <i>Annual Review of Biochemistry</i> , 2008 , 77, 259-87	29.1	224
154	Formation and resolution of recombination intermediates by <i>E. coli</i> RecA and RuvC proteins. <i>Nature</i> , 1991 , 354, 506-10	50.4	224
153	Binding of inositol phosphate to DNA-PK and stimulation of double-strand break repair. <i>Cell</i> , 2000 , 102, 721-9	56.2	210
152	Gross chromosomal rearrangements and genetic exchange between nonhomologous chromosomes following BRCA2 inactivation. <i>Genes and Development</i> , 2000 , 14, 1400-1406	12.6	205
151	Coordinated actions of SLX1-SLX4 and MUS81-EME1 for Holliday junction resolution in human cells. <i>Molecular Cell</i> , 2013 , 52, 234-47	17.6	195
150	Stabilization of RAD51 nucleoprotein filaments by the C-terminal region of BRCA2. <i>Nature Structural and Molecular Biology</i> , 2007 , 14, 468-74	17.6	193
149	Involvement of human polynucleotide kinase in double-strand break repair by non-homologous end joining. <i>EMBO Journal</i> , 2002 , 21, 2827-32	13	193
148	Single-stranded DNA-binding protein hSSB1 is critical for genomic stability. <i>Nature</i> , 2008 , 453, 677-81	50.4	187
147	Telomere maintenance requires the RAD51D recombination/repair protein. <i>Cell</i> , 2004 , 117, 337-47	56.2	186

146	FANCM connects the genome instability disorders Bloom Syndrome and Fanconi Anemia. <i>Molecular Cell</i> , 2009 , 36, 943-53	17.6	182
145	The breast cancer tumor suppressor BRCA2 promotes the specific targeting of RAD51 to single-stranded DNA. <i>Nature Structural and Molecular Biology</i> , 2010 , 17, 1263-5	17.6	177
144	Structure of the single-strand annealing domain of human RAD52 protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 13492-7	11.5	175
143	Aberrant chromosome morphology in human cells defective for Holliday junction resolution. <i>Nature</i> , 2011 , 471, 642-6	50.4	170
142	Human RECQ5beta, a protein with DNA helicase and strand-annealing activities in a single polypeptide. <i>EMBO Journal</i> , 2004 , 23, 2882-91	13	170
141	Resolution of Holliday junctions by RuvC resolvase: cleavage specificity and DNA distortion. <i>Cell</i> , 1993 , 74, 1021-31	56.2	168
140	Structure of a multisubunit complex that promotes DNA branch migration. <i>Nature</i> , 1995 , 374, 375-8	50.4	164
139	FANCM and FAAP24 function in ATR-mediated checkpoint signaling independently of the Fanconi anemia core complex. <i>Molecular Cell</i> , 2008 , 32, 313-24	17.6	157
138	BRCA2-dependent and independent formation of RAD51 nuclear foci. <i>Oncogene</i> , 2003 , 22, 1115-23	9.2	157
137	Identification and characterization of the human mus81-eme1 endonuclease. <i>Journal of Biological Chemistry</i> , 2003 , 278, 25172-8	5.4	157
136	The human Rad52 protein exists as a heptameric ring. <i>Current Biology</i> , 2000 , 10, 337-40	6.3	156
135	Interplay between human DNA repair proteins at a unique double-strand break in vivo. <i>EMBO Journal</i> , 2006 , 25, 222-31	13	155
134	Direct interaction of FANCD2 with BRCA2 in DNA damage response pathways. <i>Human Molecular Genetics</i> , 2004 , 13, 1241-8	5.6	154
133	The Rad51 and Dmc1 recombinases: a non-identical twin relationship. <i>Trends in Biochemical Sciences</i> , 2001 , 26, 131-6	10.3	142
132	RIDDLE immunodeficiency syndrome is linked to defects in 53BP1-mediated DNA damage signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 16910-5	11.5	136
131	RTEL-1 enforces meiotic crossover interference and homeostasis. <i>Science</i> , 2010 , 327, 1254-8	33.3	133
130	XRCC3 and Rad51 modulate replication fork progression on damaged vertebrate chromosomes. <i>Molecular Cell</i> , 2003 , 11, 1109-17	17.6	132
129	Identification of protein X of Escherichia coli as the recA+/tif+ gene product. <i>Molecular Genetics and Genomics</i> , 1977 , 155, 77-85		132

128	Holliday junction resolution in human cells: two junction endonucleases with distinct substrate specificities. <i>EMBO Journal</i> , 2002 , 21, 5577-85	13	130
127	Branch migration and Holliday junction resolution catalyzed by activities from mammalian cells. <i>Cell</i> , 2001 , 104, 259-68	56.2	126
126	Happy Hollidays: 40th anniversary of the Holliday junction. <i>Nature Reviews Molecular Cell Biology</i> , 2004 , 5, 937-44	48.7	124
125	DNA helicases: new breeds of translocating motors and molecular pumps. <i>Cell</i> , 1996 , 86, 177-80	56.2	124
124	Senataxin, defective in the neurodegenerative disorder ataxia with oculomotor apraxia 2, lies at the interface of transcription and the DNA damage response. <i>Molecular and Cellular Biology</i> , 2013 , 33, 406-17	4.8	123
123	InTERTpreting telomerase structure and function. <i>Nucleic Acids Research</i> , 2010 , 38, 5609-22	20.1	118
122	Holliday junction resolvases. <i>Cold Spring Harbor Perspectives in Biology</i> , 2014 , 6, a023192	10.2	116
121	The meiosis-specific recombinase hDmc1 forms ring structures and interacts with hRad51. <i>EMBO Journal</i> , 1999 , 18, 6552-60	13	113
120	In vitro reconstitution of the late steps of genetic recombination in E. coli. <i>Cell</i> , 1997 , 89, 607-17	56.2	111
119	BRCA2 BRC motifs bind RAD51-DNA filaments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 8537-42	11.5	111
118	Structural analysis of the RuvC-Holliday junction complex reveals an unfolded junction. <i>Journal of Molecular Biology</i> , 1995 , 252, 213-26	6.5	111
117	Holliday junction resolution: regulation in space and time. <i>DNA Repair</i> , 2014 , 19, 176-81	4.3	106
116	Mechanism of Holliday junction resolution by the human GEN1 protein. <i>Genes and Development</i> , 2010 , 24, 1559-69	12.6	106
115	Eme1 is involved in DNA damage processing and maintenance of genomic stability in mammalian cells. <i>EMBO Journal</i> , 2003 , 22, 6137-47	13	106
114	The processing of recombination intermediates: mechanistic insights from studies of bacterial proteins. <i>Cell</i> , 1994 , 76, 9-15	56.2	106
113	Role of the Rad1 and Rad10 proteins in nucleotide excision repair and recombination. <i>Journal of Biological Chemistry</i> , 1995 , 270, 24638-41	5.4	102
112	Formation of a RuvAB-Holliday junction complex in vitro. <i>Journal of Molecular Biology</i> , 1993 , 232, 397-406.5		99
111	RAD51C deficiency in mice results in early prophase I arrest in males and sister chromatid separation at metaphase II in females. <i>Journal of Cell Biology</i> , 2007 , 176, 581-92	7.3	96

110	Visualisation of human rad52 protein and its complexes with hRad51 and DNA. <i>Journal of Molecular Biology</i> , 1998 , 284, 1027-38	6.5	96
109	Roles of SLX1-SLX4, MUS81-EME1, and GEN1 in avoiding genome instability and mitotic catastrophe. <i>Genes and Development</i> , 2014 , 28, 1124-36	12.6	94
108	Reconstitution of the strand invasion step of double-strand break repair using human Rad51 Rad52 and RPA proteins. <i>Journal of Molecular Biology</i> , 2000 , 304, 151-64	6.5	94
107	Unresolved recombination intermediates lead to ultra-fine anaphase bridges, chromosome breaks and aberrations. <i>Nature Cell Biology</i> , 2018 , 20, 92-103	23.4	92
106	Purification and properties of the RuvA and RuvB proteins of Escherichia coli. <i>Molecular Genetics and Genomics</i> , 1992 , 235, 1-10		92
105	DNA repair synthesis facilitates RAD52-mediated second-end capture during DSB repair. <i>Molecular Cell</i> , 2008 , 29, 510-6	17.6	91
104	Role of RAD51C and XRCC3 in genetic recombination and DNA repair. <i>Journal of Biological Chemistry</i> , 2007 , 282, 1973-9	5.4	90
103	Postreplication repair in E. coli: strand exchange reactions of gapped DNA by RecA protein. <i>Molecular Genetics and Genomics</i> , 1982 , 187, 209-17		87
102	MUS81-EME2 promotes replication fork restart. <i>Cell Reports</i> , 2014 , 7, 1048-55	10.6	86
101	TRF2 promotes, remodels and protects telomeric Holliday junctions. <i>EMBO Journal</i> , 2009 , 28, 641-51	13	85
100	RAD51 localization and activation following DNA damage. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2004 , 359, 87-93	5.8	84
99	Mechanism of E. coli RecA protein directed strand exchanges in post-replication repair of DNA. <i>Nature</i> , 1981 , 294, 659-62	50.4	83
98	Interactions between human BRCA2 protein and the meiosis-specific recombinase DMC1. <i>EMBO Journal</i> , 2007 , 26, 2915-22	13	82
97	Dual control of Yen1 nuclease activity and cellular localization by Cdk and Cdc14 prevents genome instability. <i>Molecular Cell</i> , 2014 , 54, 94-106	17.6	81
96	Specific interaction of IP6 with human Ku70/80, the DNA-binding subunit of DNA-PK. <i>EMBO Journal</i> , 2002 , 21, 2038-44	13	81
95	Role of mammalian RAD51L2 (RAD51C) in recombination and genetic stability. <i>Journal of Biological Chemistry</i> , 2002 , 277, 19322-30	5.4	81
94	Resolution of Recombination Intermediates: Mechanisms and Regulation. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2015 , 80, 103-9	3.9	78
93	Functional overlap between the structure-specific nucleases Yen1 and Mus81-Mms4 for DNA-damage repair in S. cerevisiae. <i>DNA Repair</i> , 2010 , 9, 394-402	4.3	78

92	Solution structures of the two PBZ domains from human APLF and their interaction with poly(ADP-ribose). <i>Nature Structural and Molecular Biology</i> , 2010 , 17, 241-3	17.6	76
91	Structure and subunit composition of the RuvAB-Holliday junction complex. <i>Journal of Molecular Biology</i> , 1997 , 266, 217-22	6.5	76
90	Cell-cycle kinases coordinate the resolution of recombination intermediates with chromosome segregation. <i>Cell Reports</i> , 2013 , 4, 76-86	10.6	71
89	Hexameric rings of Escherichia coli RuvB protein. Cooperative assembly, processivity and ATPase activity. <i>Journal of Molecular Biology</i> , 1994 , 243, 208-15	6.5	71
88	The SMX DNA Repair Tri-nuclease. <i>Molecular Cell</i> , 2017 , 65, 848-860.e11	17.6	70
87	Holliday junction processing enzymes as guardians of genome stability. <i>Trends in Biochemical Sciences</i> , 2014 , 39, 409-19	10.3	70
86	Precise binding of single-stranded DNA termini by human RAD52 protein. <i>EMBO Journal</i> , 2000 , 19, 4175-81	8.1	68
85	Actions of aprataxin in multiple DNA repair pathways. <i>Journal of Biological Chemistry</i> , 2007 , 282, 9469-9474	5.7	67
84	Structure and mechanism of action of the BRCA2 breast cancer tumor suppressor. <i>Nature Structural and Molecular Biology</i> , 2014 , 21, 962-968	17.6	65
83	Exchanging partners: recombination in E. coli. <i>Trends in Genetics</i> , 1996 , 12, 20-6	8.5	65
82	Purification of human Rad51 protein by selective spermidine precipitation. <i>Mutation Research DNA Repair</i> , 1997 , 384, 65-72		63
81	Branch migration during homologous recombination: assembly of a RuvAB-Holliday junction complex in vitro. <i>Cell</i> , 1995 , 80, 787-93	56.2	63
80	Spatial control of the GEN1 Holliday junction resolvase ensures genome stability. <i>Nature Communications</i> , 2014 , 5, 4844	17.4	61
79	Coordinated actions of RuvABC in Holliday junction processing. <i>Journal of Molecular Biology</i> , 1998 , 281, 621-30	6.5	60
78	Visualization of recombination intermediates produced by RAD52-mediated single-strand annealing. <i>EMBO Reports</i> , 2001 , 2, 905-9	6.5	59
77	Distinct functions of BRCA1 and BRCA2 in double-strand break repair. <i>Breast Cancer Research</i> , 2002 , 4, 9-13	8.3	58
76	Enzymatic formation of biparental figure-eight molecules from plasmid DNA and their resolution in E. coli. <i>Cell</i> , 1983 , 32, 817-29	56.2	57
75	The DNA translocase activity of FANCM protects stalled replication forks. <i>Human Molecular Genetics</i> , 2012 , 21, 2005-16	5.6	56

74	Distinct roles of Mus81, Yen1, Slx1-Slx4, and Rad1 nucleases in the repair of replication-born double-strand breaks by sister chromatid exchange. <i>Molecular and Cellular Biology</i> , 2012 , 32, 1592-603	4.8	56
73	Homologous pairing and the formation of nascent synaptic intermediates between regions of duplex DNA by RecA protein. <i>Cell</i> , 1989 , 56, 987-95	56.2	55
72	Cleavage specificity of bacteriophage T4 endonuclease VII and bacteriophage T7 endonuclease I on synthetic branch migratable Holliday junctions. <i>Journal of Molecular Biology</i> , 1990 , 212, 723-35	6.5	54
71	Heteroduplex formation by human Rad51 protein: effects of DNA end-structure, hRP-A and hRad52. <i>Journal of Molecular Biology</i> , 1999 , 291, 363-74	6.5	53
70	Enzymatic formation and resolution of Holliday junctions in vitro. <i>Cell</i> , 1990 , 60, 329-36	56.2	53
69	Duplex-duplex interactions catalyzed by RecA protein allow strand exchanges to pass double-strand breaks in DNA. <i>Cell</i> , 1984 , 37, 683-91	56.2	52
68	Role of SSB protein in RecA promoted branch migration reactions. <i>Molecular Genetics and Genomics</i> , 1982 , 186, 333-8		52
67	Conformational changes modulate the activity of human RAD51 protein. <i>Journal of Molecular Biology</i> , 2004 , 337, 817-27	6.5	47
66	The human Holliday junction resolvase GEN1 rescues the meiotic phenotype of a <i>Schizosaccharomyces pombe</i> mus81 mutant. <i>Nucleic Acids Research</i> , 2010 , 38, 1866-73	20.1	46
65	Formation of RuvABC-Holliday junction complexes in vitro. <i>Current Biology</i> , 1998 , 8, 725-7	6.3	46
64	Homologous pairing can occur before DNA strand separation in general genetic recombination. <i>Nature</i> , 1981 , 290, 29-33	50.4	46
63	Activation of RuvC Holliday junction resolvase in vitro. <i>Nucleic Acids Research</i> , 1994 , 22, 2490-7	20.1	45
62	Specific binding of cruciform DNA structures by a protein from human extracts. <i>Nucleic Acids Research</i> , 1988 , 16, 3603-16	20.1	42
61	Biochemical properties of RuvBD113N: a mutation in helicase motif II of the RuvB hexamer affects DNA binding and ATPase activities. <i>Journal of Molecular Biology</i> , 1997 , 271, 704-17	6.5	41
60	The search for a human Holliday junction resolvase. <i>Biochemical Society Transactions</i> , 2009 , 37, 519-26	5.1	40
59	Bypass of DNA heterologies during RuvAB-mediated three- and four-strand branch migration. <i>Journal of Molecular Biology</i> , 1996 , 263, 582-96	6.5	40
58	Specificity of binding to four-way junctions in DNA by bacteriophage T7 endonuclease I. <i>Nucleic Acids Research</i> , 1990 , 18, 4377-84	20.1	39
57	Induction of protein synthesis in <i>Escherichia coli</i> following UV- or gamma-irradiation, mitomycin C treatment or tif Expression. <i>Molecular Genetics and Genomics</i> , 1977 , 151, 57-67		39

56	Recombination genes and proteins. <i>Current Opinion in Genetics and Development</i> , 1994 , 4, 221-8	4.9	37
55	Substrate specificity of the MUS81-EME2 structure selective endonuclease. <i>Nucleic Acids Research</i> , 2014 , 42, 3833-45	20.1	36
54	Biological roles of the Escherichia coli RuvA, RuvB and RuvC proteins revealed. <i>Molecular Microbiology</i> , 1992 , 6, 2755-9	4.1	36
53	Resolution of model Holliday junctions by yeast endonuclease is dependent upon homologous DNA sequences. <i>Cell</i> , 1988 , 52, 621-9	56.2	36
52	Cleavage of holliday junctions by the Escherichia coli RuvABC complex. <i>Journal of Biological Chemistry</i> , 2000 , 275, 26467-76	5.4	35
51	Unwinding of closed circular DNA by the Escherichia coli RuvA and RuvB recombination/repair proteins. <i>Journal of Molecular Biology</i> , 1995 , 247, 404-17	6.5	32
50	Defective ALC1 nucleosome remodeling confers PARPi sensitization and synthetic lethality with HRD. <i>Molecular Cell</i> , 2021 , 81, 767-783.e11	17.6	32
49	Molecular mechanism of DNA deadenylation by the neurological disease protein aprataxin. <i>Journal of Biological Chemistry</i> , 2008 , 283, 33994-4001	5.4	31
48	Repeat expansions confer WRN dependence in microsatellite-unstable cancers. <i>Nature</i> , 2020 , 586, 292-298.4	29.4	30
47	More complexity to the BloomQ syndrome complex. <i>Genes and Development</i> , 2008 , 22, 2737-42	12.6	29
46	Recombination at mammalian telomeres: an alternative mechanism for telomere protection and elongation. <i>Cell Cycle</i> , 2005 , 4, 672-4	4.7	28
45	Resolution of single and double Holliday junction recombination intermediates by GEN1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 443-450	11.5	24
44	GEN1 promotes Holliday junction resolution by a coordinated nick and counter-nick mechanism. <i>Nucleic Acids Research</i> , 2015 , 43, 10882-92	20.1	24
43	Structural and Mechanistic Analysis of the Slx1-Slx4 Endonuclease. <i>Cell Reports</i> , 2015 , 10, 1467-1476	10.6	23
42	Effect of DNA topology on Holliday junction resolution by Escherichia coli RuvC and bacteriophage T7 endonuclease I. <i>Journal of Molecular Biology</i> , 1997 , 270, 663-73	6.5	23
41	Architecture and DNA recognition elements of the Fanconi anemia FANCM-FAAP24 complex. <i>Structure</i> , 2013 , 21, 1648-58	5.2	22
40	recA+-dependent inactivation of the lambda repressor in Escherichia coli lysogens by gamma-radiation and by tif expression. <i>Molecular Genetics and Genomics</i> , 1975 , 141, 1-8		22
39	Synthetic junctions as tools to identify and characterize Holliday junction resolvases. <i>Methods in Enzymology</i> , 2006 , 408, 485-501	1.7	21

38	Holliday junctions cleaved by Rad1?. <i>Nature</i> , 1995 , 373, 27-8	50.4	21
37	DNA-dependent SUMO modification of PARP-1. <i>DNA Repair</i> , 2013 , 12, 761-73	4.3	20
36	Protein-DNA interactions in genetic recombination. <i>Trends in Genetics</i> , 1988 , 4, 8-13	8.5	20
35	The directionality of RuvAB-mediated branch migration: in vitro studies with three-armed junctions. <i>Genes To Cells</i> , 1996 , 1, 443-51	2.3	19
34	RuvAB-mediated branch migration does not involve extensive DNA opening within the RuvB hexamer. <i>Current Biology</i> , 2000 , 10, 103-6	6.3	18
33	The efficiency of strand invasion by Escherichia coli RecA is dependent upon the length and polarity of ssDNA tails. <i>Journal of Molecular Biology</i> , 2001 , 305, 23-31	6.5	17
32	T7 endonuclease I resolves Holliday junctions formed in vitro by RecA protein. <i>Nucleic Acids Research</i> , 1990 , 18, 5633-6	20.1	16
31	A new class of ultrafine anaphase bridges generated by homologous recombination. <i>Cell Cycle</i> , 2018 , 17, 2101-2109	4.7	16
30	Sequence-specificity of Holliday junction resolution: identification of RuvC mutants defective in metal binding and target site recognition. <i>Journal of Molecular Biology</i> , 1998 , 281, 17-29	6.5	15
29	Role of RuvA in branch migration reactions catalyzed by the RuvA and RuvB proteins of Escherichia coli. <i>Journal of Biological Chemistry</i> , 1996 , 271, 19497-502	5.4	15
28	P. mirabilis RecA protein catalyses cleavage of E. coli LexA protein and the lambda repressor in vitro. <i>Molecular Genetics and Genomics</i> , 1984 , 194, 111-3		15
27	RuvA gets X-rayed on holliday. <i>Cell</i> , 1998 , 94, 699-701	56.2	14
26	Helicase-defective RuvB(D113E) promotes RuvAB-mediated branch migration in vitro. <i>Journal of Molecular Biology</i> , 1999 , 293, 505-19	6.5	13
25	Processing of recombination intermediates in vitro. <i>BioEssays</i> , 1990 , 12, 151-4	4.1	13
24	Genetic recombination: recA protein promotes homologous pairing between duplex DNA molecules without strand unwinding. <i>Nucleic Acids Research</i> , 1981 , 9, 4201-10	20.1	13
23	Targeting the nucleotide salvage factor DNPH1 sensitizes -deficient cells to PARP inhibitors. <i>Science</i> , 2021 , 372, 156-165	33.3	12
22	Genome Instability as a Consequence of Defects in the Resolution of Recombination Intermediates. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2017 , 82, 207-212	3.9	11
21	Characterisation of RuvAB-Holliday junction complexes by glycerol gradient sedimentation. <i>Nucleic Acids Research</i> , 1995 , 23, 3621-6	20.1	9

20	Relaxing and unwinding on Holliday: DNA helicase-mediated branch migration. <i>Mutation Research DNA Repair</i> , 1995 , 337, 149-59		8
19	Holliday junction branch migration and resolution assays. <i>Methods in Molecular Biology</i> , 2004 , 262, 239-53.	3.4	7
18	MutS β Stimulates Holliday Junction Resolution by the SMX Complex. <i>Cell Reports</i> , 2020 , 33, 108289	10.6	5
17	Tackling PARP inhibitor resistance. <i>Trends in Cancer</i> , 2021 , 7, 1102-1118	12.5	5
16	Analysis of Structure-Selective Endonuclease Activities From Yeast and Human Extracts. <i>Methods in Enzymology</i> , 2017 , 591, 271-286	1.7	4
15	Functional interactions of Mycobacterium leprae RuvA with Escherichia coli RuvB and RuvC on holliday junctions. <i>Journal of Molecular Biology</i> , 2000 , 301, 839-50	6.5	4
14	Processing of Holliday junctions by RuvABC--an overview. <i>Annals of the New York Academy of Sciences</i> , 1994 , 726, 156-63; discussion 163-4	6.5	4
13	Three-stranded DNA helices as intermediates in genetic recombination. <i>BioEssays</i> , 1991 , 13, 37-8	4.1	4
12	Keeping homologous recombination in check. <i>Cell Research</i> , 2016 , 26, 397-8	24.7	4
11	GEN1 Endonuclease: Purification and Nuclease Assays. <i>Methods in Enzymology</i> , 2018 , 600, 527-542	1.7	3
10	Cross-links between Fanconi anaemia and BRCA2. <i>DNA Repair</i> , 2003 , 2, 231-4	4.3	3
9	Binding of double-strand breaks in DNA by human Rad52 protein. <i>Nature</i> , 1999 , 401, 403-403	50.4	3
8	Coordinated roles of SLX4 and MutS β in DNA repair and the maintenance of genome stability. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2021 , 56, 157-177	8.7	3
7	Preparation and Resolution of Holliday Junction DNA Recombination Intermediates. <i>Methods in Enzymology</i> , 2018 , 600, 569-590	1.7	2
6	An assay for in vitro recombination between duplex DNA molecules. <i>Methods in Molecular Biology</i> , 1994 , 30, 413-23	1.4	1
5	Generation of double Holliday junction DNAs and their dissolution/resolution within a chromatin context.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2123420119	11.5	0
4	. <i>Nature</i> , 1999 , 401, 403-403	50.4	
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