

# Michael M Cox

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

170 papers	9,672 citations	55 h-index	96 g-index
187 ext. papers	10,635 ext. citations	8.7 avg, IF	6.35 L-index

#	Paper	IF	Citations
170	RadD is a RecA-dependent accessory protein that accelerates DNA strand exchange.. <i>Nucleic Acids Research</i> , <b>2022</b> ,	20.1	1
169	The Escherichia coli serS gene promoter region overlaps with the rarA gene.. <i>PLoS ONE</i> , <b>2022</b> , 17, e0260382	3.7	0
168	X-ray crystal structure of the Escherichia coli RadD DNA repair protein bound to ADP reveals a novel zinc ribbon domain.. <i>PLoS ONE</i> , <b>2022</b> , 17, e0266031	4.1	4
167	RecA-independent recombination: Dependence on the Escherichia coli RarA protein. <i>Molecular Microbiology</i> , <b>2021</b> , 115, 1122-1137	7.9	2
166	Proteome Damage Inflicted by Ionizing Radiation: Advancing a Theme in the Research of Miroslav Radman. <i>Cells</i> , <b>2021</b> , 10,	8.9	9
165	Redox controls RecA protein activity via reversible oxidation of its methionine residues. <i>ELife</i> , <b>2021</b> , 10,	8.5	1
164	Experimental evolution of extremophile resistance to ionizing radiation. <i>Trends in Genetics</i> , <b>2021</b> , 37, 830-845	6	1
163	The rarA gene as part of an expanded RecFOR recombination pathway: Negative epistasis and synthetic lethality with ruvB, recG, and recQ.. <i>PLoS Genetics</i> , <b>2021</b> , 17, e1009972	20.1	1
162	Genomic landscape of single-stranded DNA gapped intermediates in Escherichia coli.. <i>Nucleic Acids Research</i> , <b>2021</b> ,	20.1	5
161	Development of a single-stranded DNA-binding protein fluorescent fusion toolbox. <i>Nucleic Acids Research</i> , <b>2020</b> , 48, 6053-6067	13.5	9
160	Ionizing Radiation-induced Proteomic Oxidation in. <i>Molecular and Cellular Proteomics</i> , <b>2020</b> , 19, 1375-1395	20.1	4
159	Frequent template switching in postreplication gaps: suppression of deleterious consequences by the Escherichia coli Uup and RadD proteins. <i>Nucleic Acids Research</i> , <b>2020</b> , 48, 212-230	20.1	9
158	Resolving Toxic DNA repair intermediates in every E. coli replication cycle: critical roles for RecG, Uup and RadD. <i>Nucleic Acids Research</i> , <b>2020</b> , 48, 8445-8460	20.1	8
157	Single-molecule live-cell imaging reveals RecB-dependent function of DNA polymerase IV in double strand break repair. <i>Nucleic Acids Research</i> , <b>2020</b> , 48, 8490-8508	5.7	3
156	Physiology of Highly Radioresistant After Experimental Evolution for 100 Cycles of Selection. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 582590	20.1	18
155	RecFOR epistasis group: RecF and RecO have distinct localizations and functions in Escherichia coli. <i>Nucleic Acids Research</i> , <b>2019</b> , 47, 2946-2965	3.5	15
154	Experimental Evolution of Extreme Resistance to Ionizing Radiation in after 50 Cycles of Selection. <i>Journal of Bacteriology</i> , <b>2019</b> , 201,		

153	Covalent Modification of Amino Acids and Peptides Induced by Ionizing Radiation from an Electron Beam Linear Accelerator Used in Radiotherapy. <i>Radiation Research</i> , <b>2019</b> , 191, 447-459	3.1	3
152	A variant of the Escherichia coli anaerobic transcription factor FNR exhibiting diminished promoter activation function enhances ionizing radiation resistance. <i>PLoS ONE</i> , <b>2019</b> , 14, e0199482	3.7	3
151	A 5Rto-3Rstrand exchange polarity is intrinsic to RecA nucleoprotein filaments in the absence of ATP hydrolysis. <i>Nucleic Acids Research</i> , <b>2019</b> , 47, 5126-5140	20.1	6
150	Conformational regulation of Escherichia coli DNA polymerase V by RecA and ATP. <i>PLoS Genetics</i> , <b>2019</b> , 15, e1007956	6	8
149	Spatial and temporal organization of RecA in the DNA-damage response. <i>ELife</i> , <b>2019</b> , 8,	8.9	28
148	The effects of mCI inhibition on RecA activity. <i>FASEB Journal</i> , <b>2019</b> , 33, 457.11	0.9	
147	DNA polymerase IV primarily operates outside of DNA replication forks in Escherichia coli. <i>PLoS Genetics</i> , <b>2018</b> , 14, e1007161	6	32
146	Escherichia coli RarA commits cells to post-replication repair pathways by facilitating replisome skipping. <i>FASEB Journal</i> , <b>2018</b> , 32, 786.8	0.9	
145	DNA flap creation by the RarA/MgsA protein of Escherichia coli. <i>Nucleic Acids Research</i> , <b>2017</b> , 45, 2724-2735	10	
144	Single-molecule visualization of fast polymerase turnover in the bacterial replisome. <i>ELife</i> , <b>2017</b> , 6,	8.9	80
143	P1 Ref Endonuclease: A Molecular Mechanism for Phage-Enhanced Antibiotic Lethality. <i>PLoS Genetics</i> , <b>2016</b> , 12, e1005797	6	21
142	Structural and Functional Studies of H. seropedicae RecA Protein - Insights into the Polymerization of RecA Protein as Nucleoprotein Filament. <i>PLoS ONE</i> , <b>2016</b> , 11, e0159871	3.7	4
141	DNA Metabolism in Balance: Rapid Loss of a RecA-Based Hyperrec Phenotype. <i>PLoS ONE</i> , <b>2016</b> , 11, e0154137	4	
140	Mutations for Worse or Better: Low-Fidelity DNA Synthesis by SOS DNA Polymerase V Is a Tightly Regulated Double-Edged Sword. <i>Biochemistry</i> , <b>2016</b> , 55, 2309-18	3.2	19
139	Escherichia coli RadD Protein Functionally Interacts with the Single-stranded DNA-binding Protein. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 20779-86	5.4	16
138	A RecA protein surface required for activation of DNA polymerase V. <i>PLoS Genetics</i> , <b>2015</b> , 11, e1005066	6	25
137	Biochemical characterization of RecA variants that contribute to extreme resistance to ionizing radiation. <i>DNA Repair</i> , <b>2015</b> , 26, 30-43	4.3	21
136	Function of the N-terminal segment of the RecA-dependent nuclease Ref. <i>Nucleic Acids Research</i> , <b>2015</b> , 43, 1795-803	20.1	5

135	Anionic Phospholipids Stabilize RecA Filament Bundles in Escherichia coli. <i>Molecular Cell</i> , <b>2015</b> , 60, 374-84.6	4.7	36
134	Escherichia coli radD (yejH) gene: a novel function involved in radiation resistance and double-strand break repair. <i>Molecular Microbiology</i> , <b>2015</b> , 95, 754-68	4.1	21
133	Directed Evolution of RecA Variants with Enhanced Capacity for Conjugal Recombination. <i>PLoS Genetics</i> , <b>2015</b> , 11, e1005278	6	13
132	Regulation of Mutagenic DNA Polymerase V Activation in Space and Time. <i>PLoS Genetics</i> , <b>2015</b> , 11, e1005482	5.482	67
131	Active displacement of RecA filaments by UvrD translocase activity. <i>Nucleic Acids Research</i> , <b>2015</b> , 43, 4133-49	20.1	38
130	Unleashing the True Recombination Power of RecA by Conjugal Screening of Random Mutants in the MAW Region. <i>FASEB Journal</i> , <b>2015</b> , 29, 878.6	0.9	
129	Function of the N-terminal segment of the RecA-dependent nuclease Ref. <i>FASEB Journal</i> , <b>2015</b> , 29, 879.7.9		
128	Escherichia coli genes and pathways involved in surviving extreme exposure to ionizing radiation. <i>Journal of Bacteriology</i> , <b>2014</b> , 196, 3534-45	3.5	47
127	RecA-dependent programmable endonuclease Ref cleaves DNA in two distinct steps. <i>Nucleic Acids Research</i> , <b>2014</b> , 42, 3871-83	20.1	3
126	DNA polymerase V activity is autoregulated by a novel intrinsic DNA-dependent ATPase. <i>ELife</i> , <b>2014</b> , 3, e02384	8.9	16
125	Evolution of extreme resistance to ionizing radiation via genetic adaptation of DNA repair. <i>ELife</i> , <b>2014</b> , 3, e01322	8.9	53
124	Foundational concepts and underlying theories for majors in "biochemistry and molecular biology". <i>Biochemistry and Molecular Biology Education</i> , <b>2013</b> , 41, 289-96	1.3	48
123	Regulation of Deinococcus radiodurans RecA protein function via modulation of active and inactive nucleoprotein filament states. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 21351-21366	5.4	23
122	The Deinococcus radiodurans DR1245 protein, a DdrB partner homologous to YbjN proteins and reminiscent of type III secretion system chaperones. <i>PLoS ONE</i> , <b>2013</b> , 8, e56558	3.7	14
121	Proteins pinpoint double strand breaks. <i>ELife</i> , <b>2013</b> , 2, e01561	8.9	3
120	Core Concepts of Biochemistry and Molecular Biology. <i>FASEB Journal</i> , <b>2013</b> , 27, 838.12	0.9	0
119	In Vivo role of Site-Directed Cleavage of DNA by the RecA-dependent nuclease Ref. <i>FASEB Journal</i> , <b>2013</b> , 27, 760.3	0.9	
118	Structure and cellular dynamics of Deinococcus radiodurans single-stranded DNA (ssDNA)-binding protein (SSB)-DNA complexes. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 22123-32	5.4	43

117	The function of Deinococcus Radiodurans SSB protein in RecA-mediated DNA strand exchange. <i>FASEB Journal</i> , <b>2012</b> , 26, 540.2	0.9	
116	Developing single-molecule TPM experiments for direct observation of successful RecA-mediated strand exchange reaction. <i>PLoS ONE</i> , <b>2011</b> , 6, e21359	3.7	24
115	Investigating Deinococcus radiodurans RecA protein filament formation on double-stranded DNA by a real-time single-molecule approach. <i>Biochemistry</i> , <b>2011</b> , 50, 8270-80	3.2	29
114	Structure and biochemical activities of Escherichia coli MgsA. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 12075-85	5.4	24
113	Creating directed double-strand breaks with the Ref protein: a novel RecA-dependent nuclease from bacteriophage P1. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 8240-8251	5.4	15
112	RecA K72R filament formation defects reveal an oligomeric RecA species involved in filament extension. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 7830-7840	5.4	8
111	Purification and characterization of the RecA protein from Neisseria gonorrhoeae. <i>PLoS ONE</i> , <b>2011</b> , 6, e17101	3.7	13
110	DNA-Stoffwechsel. <i>Springer-Lehrbuch</i> , <b>2011</b> , 1287-1347	0.4	
109	Die Grundlagen der Biochemie. <i>Springer-Lehrbuch</i> , <b>2011</b> , 1-53	0.4	
108	Understanding radiation resistance using resistance-promoting RecA mutants. <i>FASEB Journal</i> , <b>2011</b> , 25, 884.2	0.9	
107	Modulating cellular recombination potential through alterations in RecA structure and regulation. <i>Molecular Microbiology</i> , <b>2010</b> , 78, 1523-38	4.1	12
106	Less is more: Neisseria gonorrhoeae RecX protein stimulates recombination by inhibiting RecA. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 37188-97	5.4	26
105	X-ray crystal structure of the bacterial conjugation factor PsiB, a negative regulator of RecA. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 30615-21	5.4	6
104	Disassembly of Escherichia coli RecA E38K/DeltaC17 nucleoprotein filaments is required to complete DNA strand exchange. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 3211-26	5.4	13
103	Regulation of single-stranded DNA binding by the C termini of Escherichia coli single-stranded DNA-binding (SSB) protein. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 17246-52	5.4	73
102	Rising from the Ashes: DNA Repair in Deinococcus radiodurans. <i>PLoS Genetics</i> , <b>2010</b> , 6, e1000815	6	42
101	Binding of the dimeric Deinococcus radiodurans single-stranded DNA binding protein to single-stranded DNA. <i>Biochemistry</i> , <b>2010</b> , 49, 8266-75	3.2	30
100	A new model for SOS-induced mutagenesis: how RecA protein activates DNA polymerase V. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , <b>2010</b> , 45, 171-84	8.7	100

99	Defining the interaction between the Escherichia coli RecA and DinI proteins. <i>FASEB Journal</i> , <b>2010</b> , 24, 876.1	0.9	
98	Role of Cooperative ATP hydrolysis in RecA protein filaments. <i>FASEB Journal</i> , <b>2010</b> , 24, 876.13	0.9	
97	DdrB protein, an alternative Deinococcus radiodurans SSB induced by ionizing radiation. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 21402-11	5.4	56
96	A new look at the human Rad51 protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 13147-8	11.5	2
95	Directed evolution of ionizing radiation resistance in Escherichia coli. <i>Journal of Bacteriology</i> , <b>2009</b> , 191, 5240-52	3.5	100
94	The active form of DNA polymerase V is UmuD(2)C-RecA-ATP. <i>Nature</i> , <b>2009</b> , 460, 359-63	50.4	116
93	An SOS inhibitor that binds to free RecA protein: the PsiB protein. <i>Molecular Cell</i> , <b>2009</b> , 36, 121-30	17.6	53
92	RecFOR and RecOR as distinct RecA loading pathways. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 3264-3272	37.2	64
91	Directed evolution of ionizing radiation resistance in Escherichia coli. <i>FASEB Journal</i> , <b>2009</b> , 23, 836.7	0.9	
90	An in vitro assay for double strand break repair. <i>FASEB Journal</i> , <b>2009</b> , 23, 836.8	0.9	
89	RecA-mediated SOS induction requires an extended filament conformation but no ATP hydrolysis. <i>Molecular Microbiology</i> , <b>2008</b> , 69, 1165-79	4.1	35
88	SSB as an organizer/mobilizer of genome maintenance complexes. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , <b>2008</b> , 43, 289-318	8.7	378
87	Defective dissociation of a "slow" RecA mutant protein imparts an Escherichia coli growth defect. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 24909-21	5.4	18
86	SSB antagonizes RecX-RecA interaction. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 14198-204	5.4	14
85	Two RecA protein types that mediate different modes of hyperrecombination. <i>Journal of Bacteriology</i> , <b>2008</b> , 190, 3036-45	3.5	8
84	The stable, functional core of DdrA from Deinococcus radiodurans R1 does not restore radioresistance in vivo. <i>Journal of Bacteriology</i> , <b>2008</b> , 190, 6475-82	3.5	10
83	Novel Genotypes Relevant to Enhanced Resistance to Irradiation in Escherichia coli. <i>FASEB Journal</i> , <b>2008</b> , 22, 591.2	0.9	
82	A slow RecA protein, and its suppression in vivo. <i>FASEB Journal</i> , <b>2008</b> , 22, 591.1	0.9	

81	Regulation of RecA protein by other proteins. <i>FASEB Journal</i> , <b>2008</b> , 22, 405.1	0.9	
80	Motoring along with the bacterial RecA protein. <i>Nature Reviews Molecular Cell Biology</i> , <b>2007</b> , 8, 127-38	48.7	185
79	SSB protein limits RecOR binding onto single-stranded DNA. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 11058-67	5.4	69
78	Regulation of bacterial RecA protein function. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , <b>2007</b> , 42, 41-63	8.7	287
77	The bacterial RecA protein: structure, function, and regulation. <i>Topics in Current Genetics</i> , <b>2007</b> , 53-94		10
76	The Bacterial RecA Protein: Structure, Function, and Regulation <b>2006</b> , 53-94		10
75	Inhibition of RecA protein function by the RdgC protein from Escherichia coli. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 4708-17	5.4	39
74	Complementation of one RecA protein point mutation by another. Evidence for trans catalysis of ATP hydrolysis. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 12968-75	5.4	26
73	Distinguishing characteristics of hyperrecombinogenic RecA protein from Pseudomonas aeruginosa acting in Escherichia coli. <i>Journal of Bacteriology</i> , <b>2006</b> , 188, 5812-20	3.5	10
72	GENOME RECONSTITUTION IN THE EXTREMELY RADIATION RESISTANT BACTERIUM Deinococcus radiodurans <b>2006</b> , 341-359		1
71	Polar destabilization of DNA duplexes with single-stranded overhangs by the Deinococcus radiodurans SSB protein. <i>Biochemistry</i> , <b>2006</b> , 45, 14490-502	3.2	17
70	The RecF protein antagonizes RecX function via direct interaction. <i>Molecular Cell</i> , <b>2006</b> , 21, 41-50	17.6	59
69	RecA acts in trans to allow replication of damaged DNA by DNA polymerase V. <i>Nature</i> , <b>2006</b> , 442, 883-7	50.4	82
68	Roles of DNA polymerase V and RecA protein in SOS damage-induced mutation. <i>Chemical Reviews</i> , <b>2006</b> , 106, 406-19	68.1	61
67	Rapid Evolution of Radiation Resistance in E. coli. <i>FASEB Journal</i> , <b>2006</b> , 20, LB77	0.9	
66	DNA polymerase V and RecA protein, a minimal mutasome. <i>Molecular Cell</i> , <b>2005</b> , 17, 561-72	17.6	87
65	Deinococcus radiodurans - the consummate survivor. <i>Nature Reviews Microbiology</i> , <b>2005</b> , 3, 882-92	22.2	489
64	Organized unidirectional waves of ATP hydrolysis within a RecA filament. <i>PLoS Biology</i> , <b>2005</b> , 3, e52	9.7	58



63	Crystal structure of the <i>Deinococcus radiodurans</i> single-stranded DNA-binding protein suggests a mechanism for coping with DNA damage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 8575-80	11.5	89
62	The DinI protein stabilizes RecA protein filaments. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 30037-46	5.4	72
61	The DinI and RecX proteins are competing modulators of RecA function. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 55073-9	5.4	51
60	Inhibition of RecA protein by the <i>Escherichia coli</i> RecX protein: modulation by the RecA C terminus and filament functional state. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 52991-7	5.4	56
59	Situational repair of replication forks: roles of RecG and RecA proteins. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 10973-81	5.4	52
58	Preserving genome integrity: the DdrA protein of <i>Deinococcus radiodurans</i> R1. <i>PLoS Biology</i> , <b>2004</b> , 2, e304	9.7	88
57	The single-stranded DNA-binding protein of <i>Deinococcus radiodurans</i> . <i>BMC Microbiology</i> , <b>2004</b> , 4, 2	4.5	64
56	A RecA filament capping mechanism for RecX protein. <i>Molecular Cell</i> , <b>2004</b> , 15, 789-98	17.6	99
55	The C terminus of the <i>Escherichia coli</i> RecA protein modulates the DNA binding competition with single-stranded DNA-binding protein. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 16389-96	5.4	83
54	Magnesium ion-dependent activation of the RecA protein involves the C terminus. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 16381-8	5.4	63
53	The bacterial RecA protein as a motor protein. <i>Annual Review of Microbiology</i> , <b>2003</b> , 57, 551-77	17.5	168
52	Better chemistry for better survival, through regulation. <i>Cell</i> , <b>2003</b> , 112, 286-7	56.2	5
51	A DNA pairing-enhanced conformation of bacterial RecA proteins. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 52710-23	5.4	40
50	C-terminal deletions of the <i>Escherichia coli</i> RecA protein. Characterization of in vivo and in vitro effects. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 16372-80	5.4	90
49	The nonmutagenic repair of broken replication forks via recombination. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , <b>2002</b> , 510, 107-20	3.3	89
48	Circadian clock protein KaiC forms ATP-dependent hexameric rings and binds DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 17203-8	11.5	126
47	The RecA proteins of <i>Deinococcus radiodurans</i> and <i>Escherichia coli</i> promote DNA strand exchange via inverse pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 7917-21	11.5	73
46	RecA Protein from the extremely radioresistant bacterium <i>Deinococcus radiodurans</i> : expression, purification, and characterization. <i>Journal of Bacteriology</i> , <b>2002</b> , 184, 1649-60	3.5	62



45	Two distinct modes of RecA action are required for DNA polymerase V-catalyzed translesion synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 11061-6	11.5	46
44	The Rad51-dependent pairing of long DNA substrates is stabilized by replication protein A. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 39280-8	5.4	66
43	The bacterial RecA protein and the recombinational DNA repair of stalled replication forks. <i>Annual Review of Biochemistry</i> , <b>2002</b> , 71, 71-100	29.1	352
42	Recombinational DNA Repair in Bacteria: Postreplication <b>2001</b> ,		2
41	Recombinational DNA repair of damaged replication forks in Escherichia coli: questions. <i>Annual Review of Genetics</i> , <b>2001</b> , 35, 53-82	14.5	205
40	Historical overview: searching for replication help in all of the rec places. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2001</b> , 98, 8173-80	11.5	121
39	RecA protein filaments disassemble in the 5' to 3' direction on single-stranded DNA. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 45740-3	5.4	49
38	DNA pairing and strand exchange by the Escherichia coli RecA and yeast Rad51 proteins without ATP hydrolysis: on the importance of not getting stuck. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 38570-81	5.4	51
37	Lehninger Biochemie. <i>Springer-Lehrbuch</i> , <b>2001</b> ,	0.4	54
36	The importance of repairing stalled replication forks. <i>Nature</i> , <b>2000</b> , 404, 37-41	50.4	900
35	RecA protein promotes strand exchange with DNA substrates containing isoguanine and 5-methyl isocytosine. <i>Biochemistry</i> , <b>2000</b> , 39, 10177-88	3.2	17
34	ATP hydrolysis and DNA binding by the Escherichia coli RecF protein. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 15367-74	5.4	35
33	Recombinational DNA repair in bacteria and the RecA protein. <i>Progress in Molecular Biology and Translational Science</i> , <b>1999</b> , 63, 311-66		160
32	Quantitative analysis of the kinetics of end-dependent disassembly of RecA filaments from ssDNA. <i>Journal of Molecular Biology</i> , <b>1999</b> , 288, 391-401	6.5	73
31	A broadening view of recombinational DNA repair in bacteria. <i>Genes To Cells</i> , <b>1998</b> , 3, 65-78	2.3	117
30	On the mechanism of RecA-mediated repair of double-strand breaks: no role for four-strand DNA pairing intermediates. <i>Molecular Cell</i> , <b>1998</b> , 1, 309-17	17.6	25
29	RecA as a motor protein. Testing models for the role of ATP hydrolysis in DNA strand exchange. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 17675-85	5.4	46
28	RecA protein: structure, function, and role in recombinational DNA repair. <i>Progress in Molecular Biology and Translational Science</i> , <b>1997</b> , 56, 129-223		353

27	RecA protein filaments: end-dependent dissociation from ssDNA and stabilization by RecO and RecR proteins. <i>Journal of Molecular Biology</i> , <b>1997</b> , 265, 519-40	6.5	170
26	A path for coevolution of recombinational DNA repair, transposition, and the common nucleotides. <i>Mutation Research DNA Repair</i> , <b>1997</b> , 384, 15-22		3
25	Recombinational DNA repair: the RecF and RecR proteins limit the extension of RecA filaments beyond single-strand DNA gaps. <i>Cell</i> , <b>1997</b> , 91, 347-56	56.2	168
24	RecA filament dynamics during DNA strand exchange reactions. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 11063-73	5.4	49
23	RecA protein dynamics in the interior of RecA nucleoprotein filaments. <i>Journal of Molecular Biology</i> , <b>1996</b> , 257, 756-74	6.5	48
22	DNA strand exchange promoted by RecA K72R. Two reaction phases with different Mg <sup>2+</sup> requirements. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 5712-24	5.4	114
21	Evidence for the coupling of ATP hydrolysis to the final (extension) phase of RecA protein-mediated DNA strand exchange. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 5725-32	5.4	72
20	Blocked RecA protein-mediated DNA strand exchange reactions are reversed by the RuvA and RuvB proteins. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 19473-80	5.4	19
19	Alignment of 3 (but not 4) DNA strands within a RecA protein filament. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 26021-4	5.4	29
18	An interaction between the Escherichia coli RecF and RecR proteins dependent on ATP and double-stranded DNA. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 31397-404	5.4	61
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16	Quantitative RecA protein binding to the hybrid duplex product of DNA strand exchange. <i>Biochemistry</i> , <b>1995</b> , 34, 10859-66	3.2	29
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6	DNA recognition by the FLP recombinase of the yeast 2 mu plasmid. A mutational analysis of the FLP binding site. <i>Journal of Molecular Biology</i> , <b>1988</b> , 201, 405-21	6.5	96
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4	Homology-dependent changes in adenosine 5' triphosphate hydrolysis during recA protein promoted DNA strand exchange: evidence for long paranemic complexes. <i>Biochemistry</i> , <b>1987</b> , 26, 5616-25	3.2	65
3	Continuous association of Escherichia coli single-stranded DNA binding protein with stable complexes of recA protein and single-stranded DNA. <i>Biochemistry</i> , <b>1986</b> , 25, 1482-94	3.2	150
2	The RecA Protein 369-388		5
1	DNA double-strand breaks induced by reactive oxygen species promote DNA polymerase IV activity in Escherichia coli		1