

Robert G Lloyd

List of Publications by Year in descending order

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91
papers

6,965
citations

41344

49
h-index

64796

79
g-index

91
all docs

91
docs citations

91
times ranked

2386
citing authors

#	ARTICLE	IF	CITATIONS
1	Recombinational repair and restart of damaged replication forks. <i>Nature Reviews Molecular Cell Biology</i> , 2002, 3, 859-870.	37.0	369
2	Modulation of RNA Polymerase by (p)ppGpp Reveals a RecG-Dependent Mechanism for Replication Fork Progression. <i>Cell</i> , 2000, 101, 35-45.	28.9	275
3	Formation and resolution of recombination intermediates by <i>E. coli</i> RecA and RuvC proteins. <i>Nature</i> , 1991, 354, 506-510.	27.8	243
4	A novel repeated DNA sequence located in the intergenic regions of bacterial chromosomes. <i>Nucleic Acids Research</i> , 1990, 18, 6503-6508.	14.5	196
5	The DNA replication protein PriA and the recombination protein RecG bind D-loops. <i>Journal of Molecular Biology</i> , 1997, 270, 212-221.	4.2	191
6	Effect of <i>ruv</i> mutations on recombination and DNA repair in <i>Escherichia coli</i> K12. <i>Molecular Genetics and Genomics</i> , 1984, 194, 303-309.	2.4	182
7	Reverse branch migration of holliday junctions by RecG protein: A new mechanism for resolution of intermediates in recombination and DNA repair. <i>Cell</i> , 1993, 75, 341-350.	28.9	176
8	RNA Polymerase Modulators and DNA Repair Activities Resolve Conflicts between DNA Replication and Transcription. <i>Molecular Cell</i> , 2005, 19, 247-258.	9.7	174
9	Repair of DNA double-strand breaks in <i>Escherichia coli</i> K12 requires a functional <i>recN</i> product. <i>Molecular Genetics and Genomics</i> , 1984, 195, 267-274.	2.4	163
10	Rep Provides a Second Motor at the Replisome to Promote Duplication of Protein-Bound DNA. <i>Molecular Cell</i> , 2009, 36, 654-666.	9.7	158
11	Holliday Junction Processing in Bacteria: Insights from the Evolutionary Conservation of RuvABC, RecG, and RusA. <i>Journal of Bacteriology</i> , 1999, 181, 5543-5550.	2.2	155
12	Processing of recombination intermediates by the RecG and RuvAB proteins of <i>Escherichia coli</i> . <i>Nucleic Acids Research</i> , 1993, 21, 1719-1725.	14.5	144
13	Holliday Junction Resolvases Encoded by Homologous <i>rusA</i> Genes in <i>Escherichia coli</i> K-12 and Phage 82. <i>Journal of Molecular Biology</i> , 1996, 257, 561-573.	4.2	141
14	Crystal structure of <i>E. coli</i> RuvA with bound DNA Holliday junction at 6 Å... resolution. <i>Nature Structural Biology</i> , 1998, 5, 441-446.	9.7	135
15	Genome stability and the processing of damaged replication forks by RecG. <i>Trends in Genetics</i> , 2002, 18, 413-419.	6.7	134
16	Molecular and functional analysis of the <i>ruv</i> region of <i>Escherichia coli</i> K-12 reveals three genes involved in DNA repair and recombination. <i>Molecular Genetics and Genomics</i> , 1990, 221, 219-226.	2.4	132
17	Direct Rescue of Stalled DNA Replication Forks via the Combined Action of PriA and RecG Helicase Activities. <i>Molecular Cell</i> , 2002, 9, 241-251.	9.7	128
18	Inducible expression of a gene specific to the RecF pathway for recombination in <i>Escherichia coli</i> K12. <i>Molecular Genetics and Genomics</i> , 1983, 190, 162-167.	2.4	125

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19	Avoiding chromosome pathology when replication forks collide. <i>Nature</i> , 2013, 500, 608-611.	27.8	117
20	Hyper-recombination in <i>uvrD</i> mutants of <i>Escherichia coli</i> K-12. <i>Molecular Genetics and Genomics</i> , 1980, 180, 185-191.	2.4	116
21	Damage to DNA induces expression of the <i>ruv</i> gene of <i>Escherichia coli</i> . <i>Molecular Genetics and Genomics</i> , 1982, 185, 352-355.	2.4	114
22	Identification of the <i>recR</i> locus of <i>Escherichia coli</i> K-12 and analysis of its role in recombination and DNA repair. <i>Molecular Genetics and Genomics</i> , 1989, 216, 503-510.	2.4	113
23	Isolation and Characterization of an <i>Escherichia coli</i> K-12 Mutant with a Temperature-Sensitive <i>RecA</i> Phenotype. <i>Journal of Bacteriology</i> , 1974, 120, 407-415.	2.2	111
24	Effect of <i>recF</i> , <i>recJ</i> , <i>recN</i> , <i>recO</i> and <i>ruv</i> mutations on ultraviolet survival and genetic recombination in a <i>recD</i> strain of <i>Escherichia coli</i> K12. <i>Molecular Genetics and Genomics</i> , 1988, 212, 317-324.	2.4	108
25	Nucleotide sequencing of the <i>ruv</i> region of <i>Escherichia coli</i> K-12 reveals a <i>LexA</i> regulated operon encoding two genes. <i>Nucleic Acids Research</i> , 1988, 16, 1541-1549.	14.5	106
26	Purification and properties of the <i>RuvA</i> and <i>RuvB</i> proteins of <i>Escherichia coli</i> . <i>Molecular Genetics and Genomics</i> , 1992, 235, 1-10.	2.4	105
27	<i>RecN</i> protein and transcription factor <i>DksA</i> combine to promote faithful recombinational repair of DNA double-strand breaks. <i>Molecular Microbiology</i> , 2005, 57, 97-110.	2.5	100
28	The <i>RecG</i> Branch Migration Protein of <i>Escherichia coli</i> Dissociates R-loops. <i>Journal of Molecular Biology</i> , 1996, 264, 713-721.	4.2	88
29	Interactions Between <i>RuvA</i> and <i>RuvC</i> at Holliday Junctions: Inhibition of Junction Cleavage and Formation of a <i>RuvA-RuvC-DNA</i> Complex. <i>Journal of Molecular Biology</i> , 1996, 264, 878-890.	4.2	86
30	A model for dsDNA translocation revealed by a structural motif common to <i>RecG</i> and <i>Mfd</i> proteins. <i>EMBO Journal</i> , 2003, 22, 724-734.	7.8	85
31	Targeting Holliday Junctions by the <i>RecG</i> Branch Migration Protein of <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 1998, 273, 19729-19739.	3.4	83
32	<i>RecG</i> helicase activity at three- and four-strand DNA structures. <i>Nucleic Acids Research</i> , 1999, 27, 3049-3056.	14.5	82
33	Genetic analysis and molecular cloning of the <i>Escherichia coli ruv</i> gene. <i>Molecular Genetics and Genomics</i> , 1984, 194, 322-329.	2.4	79
34	<i>RecG</i> helicase promotes DNA double-strand break repair. <i>Molecular Microbiology</i> , 2004, 52, 119-132.	2.5	74
35	Is <i>RecG</i> a general guardian of the bacterial genome?. <i>DNA Repair</i> , 2010, 9, 210-223.	2.8	74
36	Evidence of abortive recombination in <i>ruv</i> mutants of <i>Escherichia coli</i> K12. <i>Molecular Genetics and Genomics</i> , 1991, 225, 266-272.	2.4	73

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37	Protein-DNA complexes are the primary sources of replication fork pausing in <i>Escherichia coli</i> . Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7252-7257.	7.1	71
38	Altered SOS induction associated with mutations in recF, recO and recR. Molecular Genetics and Genomics, 1995, 246, 174-179.	2.4	70
39	Modulation of DNA repair by mutations flanking the DNA channel through RNA polymerase. EMBO Journal, 2002, 21, 6944-6953.	7.8	70
40	Replication fork stalling and cell cycle arrest in UV-irradiated <i>Escherichia coli</i> . Genes and Development, 2007, 21, 668-681.	5.9	69
41	Avoiding and resolving conflicts between DNA replication and transcription. DNA Repair, 2007, 6, 981-993.	2.8	69
42	Substrate Specificity of RusA Resolvase Reveals the DNA Structures Targeted by RuvAB and RecG In Vivo. Molecular Cell, 2002, 10, 187-198.	9.7	68
43	The genetic location of the sbcA gene of <i>Escherichia coli</i> . Molecular Genetics and Genomics, 1974, 134, 157-171.	2.4	65
44	Sequence Specificity and Biochemical Characterization of the RusA Holliday Junction Resolvase of <i>Escherichia coli</i> . Journal of Biological Chemistry, 1997, 272, 14873-14882.	3.4	65
45	Formation of recombinant lacZ + DNA in conjugational crosses with a recB mutant of <i>Escherichia coli</i> K12 depends on recF, recJ, and recO. Molecular Genetics and Genomics, 1987, 209, 135-141.	2.4	60
46	Rep and PriA helicase activities prevent RecA from provoking unnecessary recombination during replication fork repair. Genes and Development, 2006, 20, 2135-2147.	5.9	60
47	Action of RuvAB at Replication Fork Structures. Journal of Biological Chemistry, 2001, 276, 41938-41944.	3.4	58
48	Replication fork regression in vitro by the Werner syndrome protein (WRN): Holliday junction formation, the effect of leading arm structure and a potential role for WRN exonuclease activity. Nucleic Acids Research, 2007, 35, 5729-5747.	14.5	58
49	Localization of an accessory helicase at the replisome is critical in sustaining efficient genome duplication. Nucleic Acids Research, 2011, 39, 949-957.	14.5	55
50	Interplay between DNA replication, recombination and repair based on the structure of RecG helicase. Philosophical Transactions of the Royal Society B: Biological Sciences, 2004, 359, 49-59.	4.0	53
51	25 years on and no end in sight: a perspective on the role of RecG protein. Current Genetics, 2016, 62, 827-840.	1.7	51
52	On the nature of the RecBC and RecF pathways of conjugal recombination in <i>Escherichia coli</i> . Molecular Genetics and Genomics, 1983, 190, 156-161.	2.4	50
53	DNA Binding by the Substrate Specificity (Wedge) Domain of RecG Helicase Suggests a Role in Processivity. Journal of Biological Chemistry, 2005, 280, 13921-13927.	3.4	50
54	Replication fork collisions cause pathological chromosomal amplification in cells lacking RecG DNA translocase. Molecular Microbiology, 2009, 74, 940-955.	2.5	50

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55	Pathological replication in cells lacking RecG DNA translocase. <i>Molecular Microbiology</i> , 2009, 73, 352-366.	2.5	47
56	PriA supports two distinct pathways for replication restart in UV-irradiated <i>Escherichia coli</i> cells. <i>Molecular Microbiology</i> , 2003, 47, 1091-1100.	2.5	46
57	RecG Protein and Single-Strand DNA Exonucleases Avoid Cell Lethality Associated With PriA Helicase Activity in <i>Escherichia coli</i> . <i>Genetics</i> , 2010, 186, 473-492.	2.9	45
58	SOME GENETIC CONSEQUENCES OF CHANGES IN THE LEVEL OF <i>recA</i> GENE FUNCTION IN <i>ESCHERICHIA COLI</i> K-12. <i>Genetics</i> , 1976, 84, 675-695.	2.9	43
59	A molecular model for conjugational recombination in <i>Escherichia coli</i> K12. <i>Molecular Genetics and Genomics</i> , 1984, 197, 328-336.	2.4	42
60	<i>lexA</i> dependent recombination in <i>uvrD</i> strains of <i>Escherichia coli</i> . <i>Molecular Genetics and Genomics</i> , 1983, 189, 157-161.	2.4	41
61	The RuvABC resolvasome. <i>FEBS Journal</i> , 2002, 269, 5492-5501.	0.2	41
62	Genetic analysis of recombination in prokaryotes. <i>Current Opinion in Genetics and Development</i> , 1992, 2, 683-690.	3.3	37
63	A mutation in helicase motif III of <i>E. coli</i> RecG protein abolishes branch migration of Holliday junctions. <i>Nucleic Acids Research</i> , 1994, 22, 308-313.	14.5	36
64	Chromosomal over-replication in <i>Escherichia coli</i> <i>recG</i> cells is triggered by replication fork fusion and amplified if replichore symmetry is disturbed. <i>Nucleic Acids Research</i> , 2018, 46, 7701-7715.	14.5	34
65	The RdgC protein of <i>Escherichia coli</i> binds DNA and counters a toxic effect of RecFOR in strains lacking the replication restart protein PriA. <i>EMBO Journal</i> , 2003, 22, 735-745.	7.8	33
66	On the viability of <i>Escherichia coli</i> cells lacking DNA topoisomerase I. <i>BMC Microbiology</i> , 2012, 12, 26.	3.3	32
67	The <i>recN</i> locus of <i>Escherichia coli</i> K12: molecular analysis and identification of the gene product. <i>Molecular Genetics and Genomics</i> , 1985, 201, 301-307.	2.4	31
68	The <i>mmsA</i> locus of <i>Streptococcus pneumoniae</i> encodes a RecG-like protein involved in DNA repair and in three-strand recombination. <i>Molecular Microbiology</i> , 1996, 19, 1035-1045.	2.5	31
69	Isolation of Rec ⁺ mutants from an F-prime merodiploid strain of <i>Escherichia coli</i> K-12. <i>Molecular Genetics and Genomics</i> , 1976, 143, 223-232.	2.4	27
70	Identification of three aspartic acid residues essential for catalysis by the RusA holliday junction resolvase 1 Edited by A. R. Fersht. <i>Journal of Molecular Biology</i> , 1999, 286, 403-415.	4.2	27
71	Maintaining replication fork integrity in UV-irradiated <i>Escherichia coli</i> cells. <i>DNA Repair</i> , 2008, 7, 1589-1602.	2.8	27
72	Promoting and Avoiding Recombination: Contrasting Activities of the <i>Escherichia coli</i> RuvABC Holliday Junction Resolvase and RecG DNA Translocase. <i>Genetics</i> , 2010, 185, 23-37.	2.9	27

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73	RusA proteins from the extreme thermophile <i>Aquifex aeolicus</i> and lactococcal phage ϕ 1t resolve Holliday junctions. <i>Molecular Microbiology</i> , 2002, 44, 549-559.	2.5	24
74	The Structure of <i>Escherichia coli</i> RusA Endonuclease Reveals a New Holliday Junction DNA Binding Fold. <i>Structure</i> , 2003, 11, 1557-1567.	3.3	24
75	Structural similarities between <i>Escherichia coli</i> RuvA protein and other DNA-binding proteins and a mutational analysis of its binding to the holliday junction. <i>Journal of Molecular Biology</i> , 1998, 278, 105-116.	4.2	23
76	Holliday junction binding and processing by the RuvA protein of <i>Mycoplasma pneumoniae</i> . <i>FEBS Journal</i> , 2002, 269, 1525-1533.	0.2	21
77	Insights into the mechanisms of homologous recombination from the structure of RuvA. <i>Current Opinion in Structural Biology</i> , 1997, 7, 798-803.	5.7	20
78	RusA Holliday junction resolvase: DNA complex structureâ€”insights into selectivity and specificity. <i>Nucleic Acids Research</i> , 2006, 34, 5577-5584.	14.5	19
79	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.	4.2	17
80	An <i>E. coli</i> RuvC mutant defective in cleavage of synthetic Holliday junctions. <i>Nucleic Acids Research</i> , 1993, 21, 3359-3364.	14.5	15
81	Conservation of RecG activity from pathogens to hyperthermophiles. <i>DNA Repair</i> , 2005, 4, 23-31.	2.8	14
82	Analysis of Strand Transfer and Template Switching Mechanisms of DNA Gap Repair by Homologous Recombination in <i>Escherichia coli</i> : Predominance of Strand Transfer. <i>Journal of Molecular Biology</i> , 2008, 381, 803-809.	4.2	14
83	Cellular location and activity of <i>Escherichia coli</i> RecG proteins shed light on the function of its structurally unresolved C-terminus. <i>Nucleic Acids Research</i> , 2014, 42, 5702-5714.	14.5	13
84	The Balance between Recombination Enzymes and Accessory Replicative Helicases in Facilitating Genome Duplication. <i>Genes</i> , 2016, 7, 42.	2.4	13
85	Modulation of DNA damage tolerance in <i>Escherichia coli</i> recG and ruv strains by mutations affecting PriB, the ribosome and RNA polymerase. <i>Molecular Microbiology</i> , 2012, 86, 675-691.	2.5	12
86	Inhibiting translation elongation can aid genome duplication in <i>Escherichia coli</i> . <i>Nucleic Acids Research</i> , 2017, 45, 2571-2584.	14.5	12
87	Analysis of conserved basic residues associated with DNA binding (Arg69) and catalysis (Lys76) by the RusA holliday junction resolvase. <i>Journal of Molecular Biology</i> , 2000, 304, 165-176.	4.2	11
88	Kinetics of recA function in conjugational recombinant formation. <i>Molecular Genetics and Genomics</i> , 1979, 169, 219-228.	2.4	10
89	Location of a mutation in the aspartyl-tRNA synthetase gene of <i>Escherichia coli</i> K12. <i>Mutation Research-Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1991, 264, 93-96.	1.1	10
90	Genetic analysis of an archaeal Holliday junction resolvase in <i>Escherichia coli</i> 11 Edited by J. Karn. <i>Journal of Molecular Biology</i> , 2001, 310, 577-589.	4.2	10

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91	Loss of Hfr DNA from <i>Escherichia coli</i> merodiploids during inhibition of conjugation by nalidixic acid. <i>Genetical Research</i> , 1980, 36, 69-79.	0.9	9