# 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 | Chromosomal over-replication in Escherichia coli recG cells is triggered by replication fork fusion and amplified if replichore symmetry is disturbed. Nucleic Acids Research, 2018, 46, 7701-7715. | 14.5 | 34 |
| 2 | Inhibiting translation elongation can aid genome duplication in Escherichia coli. Nucleic Acids Research, 2017, 45, 2571-2584. | 14.5 | 12 |
| 3 | The Balance between Recombination Enzymes and Accessory Replicative Helicases in Facilitating Genome Duplication. Genes, 2016, 7, 42. | 2.4 | 13 |
| 4 | 25Âyears on and no end in sight: a perspective on the role of RecG protein. Current Genetics, 2016, 62, 827-840. | 1.7 | 51 |
| 5 | Cellular location and activity of Escherichia coli RecG proteins shed light on the function of its structurally unresolved C-terminus. Nucleic Acids Research, 2014, 42, 5702-5714. | 14.5 | 13 |
| 6 | Avoiding chromosome pathology when replication forks collide. Nature, 2013, 500, 608-611. | 27.8 | 117 |
| 7 | Proteinâ€“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 |
| 8 | Modulation of DNA damage tolerance in E scherichia coli recG and ruv strains by mutations affecting PriB , the ribosome and RNA polymerase. Molecular Microbiology, 2012, 86, 675-691. | 2.5 | 12 |
| 9 | On the viability of Escherichia colicells lacking DNA topoisomerase I. BMC Microbiology, 2012, 12, 26. | 3.3 | 32 |
| 10 | 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 |
| 11 | Is RecG a general guardian of the bacterial genome?. DNA Repair, 2010, 9, 210-223. | 2.8 | 74 |
| 12 | Promoting and Avoiding Recombination: Contrasting Activities of the <i>Escherichia coli</i> RuvABC Holliday Junction Resolvase and RecG DNA Translocase. Genetics, 2010, 185, 23-37. | 2.9 | 27 |
| 13 | RecG Protein and Single-Strand DNA Exonucleases Avoid Cell Lethality Associated With PriA Helicase Activity in<i>Escherichia coli</i>. Genetics, 2010, 186, 473-492. | 2.9 | 45 |
| 14 | Pathological replication in cells lacking RecG DNA translocase. Molecular Microbiology, 2009, 73, 352-366. | 2.5 | 47 |
| 15 | Replication fork collisions cause pathological chromosomal amplification in cells lacking RecG DNA translocase. Molecular Microbiology, 2009, 74, 940-955. | 2.5 | 50 |
| 16 | Rep Provides a Second Motor at the Replisome to Promote Duplication of Protein-Bound DNA. Molecular Cell, 2009, 36, 654-666. | 9.7 | 158 |
| 17 | Maintaining replication fork integrity in UV-irradiated Escherichia coli cells. DNA Repair, 2008, 7, 1589-1602. | 2.8 | 27 |
| 18 | Analysis of Strand Transfer and Template Switching Mechanisms of DNA Gap Repair by Homologous Recombination in Escherichia coli: Predominance of Strand Transfer. Journal of Molecular Biology, 2008, 381, 803-809. | 4.2 | 14 |

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| 19 | Replication fork stalling and cell cycle arrest in UV-irradiated Escherichia coli. Genes and Development, 2007, 21, 668-681. | 5.9 | 69 |
| 20 | 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 |
| 21 | Avoiding and resolving conflicts between DNA replication and transcription. DNA Repair, 2007, 6, 981-993. | 2.8 | 69 |
| 22 | RusA Holliday junction resolvase: DNA complex structureâ€"insights into selectivity and specificity. Nucleic Acids Research, 2006, 34, 5577-5584. | 14.5 | 19 |
| 23 | 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 |
| 24 | RecN protein and transcription factor DksA combine to promote faithful recombinational repair of DNA double-strand breaks. Molecular Microbiology, 2005, 57, 97-110. | 2.5 | 100 |
| 25 | 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 |
| 26 | RNA Polymerase Modulators and DNA Repair Activities Resolve Conflicts between DNA Replication and Transcription. Molecular Cell, 2005, 19, 247-258. | 9.7 | 174 |
| 27 | Conservation of RecG activity from pathogens to hyperthermophiles. DNA Repair, 2005, 4, 23-31. | 2.8 | 14 |
| 28 | 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 |
| 29 | RecG helicase promotes DNA double-strand break repair. Molecular Microbiology, 2004, 52, 119-132. | 2.5 | 74 |
| 30 | A model for dsDNA translocation revealed by a structural motif common to RecG and Mfd proteins. EMBO Journal, 2003, 22, 724-734. | 7.8 | 85 |
| 31 | The RdgC protein of Escherichia coli binds DNA and counters a toxic effect of RecFOR in strains lacking the replication restart protein PriA. EMBO Journal, 2003, 22, 735-745. | 7.8 | 33 |
| 32 | The Structure of Escherichia coli RusA Endonuclease Reveals a New Holliday Junction DNA Binding Fold. Structure, 2003, 11, 1557-1567. | 3.3 | 24 |
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| 34 | Direct Rescue of Stalled DNA Replication Forks via the Combined Action of PriA and RecG Helicase Activities. Molecular Cell, 2002, 9, 241-251. | 9.7 | 128 |
| 35 | 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 |
| 36 | Genome stability and the processing of damaged replication forks by RecG. Trends in Genetics, 2002, 18, 413-419. | 6.7 | 134 |

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| 37 | RusA proteins from the extreme thermophile Aquifex aeolicus and lactococcal phage r1t resolve Holliday junctions. Molecular Microbiology, 2002, 44, 549-559. | 2.5 | 24 |
| 38 | Holliday junction binding and processing by the RuvA protein of Mycoplasma pneumoniae. FEBS Journal, 2002, 269, 1525-1533. | 0.2 | 21 |
| 39 | The RuvABC resolvasome. FEBS Journal, 2002, 269, 5492-5501. | 0.2 | 41 |
| 40 | Recombinational repair and restart of damaged replication forks. Nature Reviews Molecular Cell Biology, 2002, 3, 859-870. | 37.0 | 369 |
| 41 | Modulation of DNA repair by mutations flanking the DNA channel through RNA polymerase. EMBO Journal, 2002, 21, 6944-6953. | 7.8 | 70 |
| 42 | Genetic analysis of an archaeal Holliday junction resolvase in Escherichia coli 1 1Edited by J. Karn. Journal of Molecular Biology, 2001, 310, 577-589. | 4.2 | 10 |
| 43 | Action of RuvAB at Replication Fork Structures. Journal of Biological Chemistry, 2001, 276, 41938-41944. | 3.4 | 58 |
| 44 | Analysis of conserved basic residues associated with DNA binding (Arg69) and catalysis (Lys76) by the RusA holliday junction resolvase. Journal of Molecular Biology, 2000, 304, 165-176. | 4.2 | 11 |
| 45 | Modulation of RNA Polymerase by (p)ppGpp Reveals a RecG-Dependent Mechanism for Replication Fork Progression. Cell, 2000, 101, 35-45. | 28.9 | 275 |
| 46 | RecG helicase activity at three- and four-strand DNA structures. Nucleic Acids Research, 1999, 27, 3049-3056. | 14.5 | 82 |
| 47 | Identification of three aspartic acid residues essential for catalysis by the RusA holliday junction resolvase 1 1Edited by A. R. Fersht. Journal of Molecular Biology, 1999, 286, 403-415. | 4.2 | 27 |
| 48 | Holliday Junction Processing in Bacteria: Insights from the Evolutionary Conservation of RuvABC, RecG, and RusA. Journal of Bacteriology, 1999, 181, 5543-5550. | 2.2 | 155 |
| 49 | Crystal structure of E.coli RuvA with bound DNA Holliday junction at 6 Ã… resolution. Nature Structural Biology, 1998, 5, 441-446. | 9.7 | 135 |
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| 53 | Sequence Specificity and Biochemical Characterization of the RusA Holliday Junction Resolvase of Escherichia coli. Journal of Biological Chemistry, 1997, 272, 14873-14882. | 3.4 | 65 |
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| 56 | Holliday Junction Resolvases Encoded by HomologousrusAGenes inEscherichia coliK-12 and Phage 82. Journal of Molecular Biology, 1996, 257, 561-573. | 4.2 | 141 |
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| 67 | Location of a mutation in the aspartyl-tRNA synthetae gene of Escherichia coli K12. Mutation Research-Fundamental and Molecular Mechanisms of Mutagenesis, 1991, 264, 93-96. | 1.1 | 10 |
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| 91 | Isolation and Characterization of an Escherichia coli K-12 Mutant with a Temperature-Sensitive RecA âˆ’ Phenotype. Journal of Bacteriology, 1974, 120, 407-415. | 2.2 | 111 |