

Steven J Sandler

List of Publications by Year in descending order

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55
papers

3,882
citations

186265

28
h-index

168389

53
g-index

55
all docs

55
docs citations

55
times ranked

2253
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Positive Charges Are Important for the SOS Constitutive Phenotype in <i>recA730</i> and <i>recA1202</i> Mutants of Escherichia coli K-12. <i>Journal of Bacteriology</i> , 2022, 204, e0008122. | 2.2 | 1 |
| 2 | Escherichia coli K12 has two distinguishable PriA-PriB replication restart pathways. <i>Molecular Microbiology</i> , 2021, 116, 1140-1150. | 2.5 | 9 |
| 3 | An Epistasis Analysis of <i>recA</i> and <i>recN</i> in Escherichia coli K-12. <i>Genetics</i> , 2020, 216, 381-393. | 2.9 | 7 |
| 4 | Mutational Analysis of Residues in PriA and PriC Affecting Their Ability To Interact with SSB in Escherichia coli K-12. <i>Journal of Bacteriology</i> , 2020, 202, . | 2.2 | 4 |
| 5 | Interaction with single-stranded DNA-binding protein localizes ribonuclease HI to DNA replication forks and facilitates R-loop removal. <i>Molecular Microbiology</i> , 2020, 114, 495-509. | 2.5 | 14 |
| 6 | Development of a single-stranded DNA-binding protein fluorescent fusion toolbox. <i>Nucleic Acids Research</i> , 2020, 48, 6053-6067. | 14.5 | 16 |
| 7 | Function of a strand-separation pin element in the PriA DNA replication restart helicase. <i>Journal of Biological Chemistry</i> , 2019, 294, 2801-5614. | 3.4 | 19 |
| 8 | Protease-deficient SOS constitutive cells have RecN-dependent cell division phenotypes. <i>Molecular Microbiology</i> , 2019, 111, 405-422. | 2.5 | 9 |
| 9 | Stress-Induced Reorganization of the Mycobacterial Membrane Domain. <i>MBio</i> , 2018, 9, . | 4.1 | 50 |
| 10 | Structure-specific DNA replication-fork recognition directs helicase and replication restart activities of the PriA helicase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E9075-E9084. | 7.1 | 30 |
| 11 | Significance of a Posttranslational Modification of the PilA Protein of Geobacter sulfurreducens for Surface Attachment, Biofilm Formation, and Growth on Insoluble Extracellular Electron Acceptors. <i>Journal of Bacteriology</i> , 2017, 199, . | 2.2 | 18 |
| 12 | Replication Restart in Bacteria. <i>Journal of Bacteriology</i> , 2017, 199, . | 2.2 | 53 |
| 13 | A <i>priA</i> Mutant Expressed in Two Pieces Has Almost Full Activity in Escherichia coli K-12. <i>Journal of Bacteriology</i> , 2017, 199, . | 2.2 | 6 |
| 14 | Spatially distinct and metabolically active membrane domain in mycobacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5400-5405. | 7.1 | 78 |
| 15 | Structure and Function of the PriC DNA Replication Restart Protein. <i>Journal of Biological Chemistry</i> , 2016, 291, 18384-18396. | 3.4 | 17 |
| 16 | Directed Evolution of RecA Variants with Enhanced Capacity for Conjugal Recombination. <i>PLoS Genetics</i> , 2015, 11, e1005278. | 3.5 | 22 |
| 17 | Structural mechanisms of PriA-mediated DNA replication restart. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 1373-1378. | 7.1 | 94 |
| 18 | Vive la rÃ©sistance!. <i>ELife</i> , 2014, 3, e02387. | 6.0 | 0 |

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|----|---|-----|-----------|
| 19 | Specificity in suppression of SOS expression by <i>recA4162</i> and <i>uvrD303</i> . <i>DNA Repair</i> , 2013, 12, 1072-1080. | 2.8 | 7 |
| 20 | PriC-mediated DNA Replication Restart Requires PriC Complex Formation with the Single-stranded DNA-binding Protein. <i>Journal of Biological Chemistry</i> , 2013, 288, 17569-17578. | 3.4 | 47 |
| 21 | Mu Insertions Are Repaired by the Double-Strand Break Repair Pathway of <i>Escherichia coli</i> . <i>PLoS Genetics</i> , 2012, 8, e1002642. | 3.5 | 20 |
| 22 | Physical manipulation of the <i>Escherichia coli</i> chromosome reveals its soft nature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E2649-56. | 7.1 | 187 |
| 23 | Factors Limiting SOS Expression in Log-Phase Cells of <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2012, 194, 5325-5333. | 2.2 | 20 |
| 24 | Structure of the SSB-DNA polymerase III interface and its role in DNA replication. <i>EMBO Journal</i> , 2011, 30, 4236-4247. | 7.8 | 132 |
| 25 | <i>RecA4142</i> Causes SOS Constitutive Expression by Loading onto Reversed Replication Forks in <i>Escherichia coli</i> K-12. <i>Journal of Bacteriology</i> , 2010, 192, 2575-2582. | 2.2 | 10 |
| 26 | <i>UvrD303</i> , a Hyperhelicase Mutant That Antagonizes RecA-Dependent SOS Expression by a Mechanism That Depends on Its C Terminus. <i>Journal of Bacteriology</i> , 2009, 191, 1429-1438. | 2.2 | 23 |
| 27 | Single Molecule Analysis of a Red Fluorescent RecA Protein Reveals a Defect in Nucleoprotein Filament Nucleation That Relates to Its Reduced Biological Functions. <i>Journal of Biological Chemistry</i> , 2009, 284, 18664-18673. | 3.4 | 23 |
| 28 | Suppression of constitutive SOS expression by <i>recA4162</i> (I298V) and <i>recA4164</i> (L126V) requires <i>UvrD</i> and <i>RecX</i> in <i>Escherichia coli</i> K-12. <i>Molecular Microbiology</i> , 2009, 73, 226-239. | 2.5 | 10 |
| 29 | <i>XthA</i> (Exonuclease III) regulates loading of RecA onto DNA substrates in log phase <i>Escherichia coli</i> cells. <i>Molecular Microbiology</i> , 2008, 67, 88-101. | 2.5 | 28 |
| 30 | Requirements for ATP binding and hydrolysis in RecA function in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2008, 67, 1347-1359. | 2.5 | 26 |
| 31 | RecA-mediated SOS induction requires an extended filament conformation but no ATP hydrolysis. <i>Molecular Microbiology</i> , 2008, 69, 1165-1179. | 2.5 | 41 |
| 32 | Differential Requirements of Two <i>recA</i> Mutants for Constitutive SOS Expression in <i>Escherichia coli</i> K-12. <i>PLoS ONE</i> , 2008, 3, e4100. | 2.5 | 17 |
| 33 | <i>UvrD</i> Limits the Number and Intensities of RecA-Green Fluorescent Protein Structures in <i>Escherichia coli</i> K-12. <i>Journal of Bacteriology</i> , 2007, 189, 2915-2920. | 2.2 | 44 |
| 34 | A Hand-Off Mechanism for Primosome Assembly in Replication Restart. <i>Molecular Cell</i> , 2007, 26, 781-793. | 9.7 | 72 |
| 35 | <i>DinI</i> and <i>RecX</i> modulate RecA-DNA structures in <i>Escherichia coli</i> K-12. <i>Molecular Microbiology</i> , 2007, 63, 103-115. | 2.5 | 36 |
| 36 | A novel <i>dnaC</i> mutation that suppresses <i>priB</i> rep mutant phenotypes in <i>Escherichia coli</i> K-12. <i>Molecular Microbiology</i> , 2006, 60, 973-983. | 2.5 | 15 |

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|----|---|------|-----------|
| 37 | Localization of RecA in Escherichia coli K-12 using RecA-GFP. <i>Molecular Microbiology</i> , 2005, 57, 1074-1085. | 2.5 | 109 |
| 38 | Requirements for Replication Restart Proteins During Constitutive Stable DNA Replication in Escherichia coli K-12. <i>Genetics</i> , 2005, 169, 1799-1806. | 2.9 | 39 |
| 39 | A dnaT Mutant With Phenotypes Similar to Those of a priA2::kan Mutant in Escherichia coli K-12. Sequence data from this article have been deposited with the EMBL/GenBank Data Libraries under accession nos. AY331182 and AY331181.. <i>Genetics</i> , 2004, 167, 569-578. | 2.9 | 37 |
| 40 | Measurement of SOS expression in individual Escherichia coli K-12 cells using fluorescence microscopy. <i>Molecular Microbiology</i> , 2004, 53, 1343-1357. | 2.5 | 164 |
| 41 | Allele specific synthetic lethality between priC and dnaA alleles at the permissive temperature of 30 degrees C in E. coli K-12. <i>BMC Microbiology</i> , 2004, 4, 47. | 3.3 | 12 |
| 42 | PriA mutations that affect PriA-PriC function during replication restart. <i>Molecular Microbiology</i> , 2001, 41, 697-704. | 2.5 | 56 |
| 43 | The importance of repairing stalled replication forks. <i>Nature</i> , 2000, 404, 37-41. | 27.8 | 1,008 |
| 44 | Role of PriA in Replication Fork Reactivation in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2000, 182, 9-13. | 2.2 | 205 |
| 45 | Multiple Genetic Pathways for Restarting DNA Replication Forks in <i>Escherichia coli</i> K-12. <i>Genetics</i> , 2000, 155, 487-497. | 2.9 | 150 |
| 46 | dnaC mutations suppress defects in DNA replication- and recombination-associated functions in priB and priC double mutants in Escherichia coli K-12. <i>Molecular Microbiology</i> , 1999, 34, 91-101. | 2.5 | 86 |
| 47 | Diversity of radA Genes from Cultured and Uncultured Archaea : Comparative Analysis of Putative RadA Proteins and Their Use as a Phylogenetic Marker. <i>Journal of Bacteriology</i> , 1999, 181, 907-915. | 2.2 | 54 |
| 48 | Evolutionary Comparisons of RecA-Like Proteins Across All Major Kingdoms of Living Organisms. <i>Journal of Molecular Evolution</i> , 1997, 44, 528-541. | 1.8 | 125 |
| 49 | Overlapping functions for recF and priA in cell viability and UV-inducible SOS expression are distinguished by dnaC809 in Escherichia coli K-12. <i>Molecular Microbiology</i> , 1996, 19, 871-880. | 2.5 | 55 |
| 50 | recA-like genes from three archaean species with putative protein products similar to Rad51 and Dmc1 proteins of the yeast <i>Saccharomyces cerevisiae</i> . <i>Nucleic Acids Research</i> , 1996, 24, 2125-2132. | 14.5 | 118 |
| 51 | Differential Suppression of <i>priA2::kan</i> Phenotypes in <i>Escherichia coli</i> K-12 by Mutations in <i>priA</i> , <i>lexA</i> , and <i>dnaC</i> . <i>Genetics</i> , 1996, 143, 5-13. | 2.9 | 173 |
| 52 | recO and recR mutations delay induction of the SOS response in Escherichia coli. <i>Molecular Genetics and Genomics</i> , 1995, 246, 254-258. | 2.4 | 59 |
| 53 | Homologous Genetic Recombination: The Pieces Begin to Fall into Place. <i>Critical Reviews in Microbiology</i> , 1994, 20, 125-142. | 6.1 | 206 |
| 54 | Studies on the mechanism of reduction of W-inducible sulAp expression by recF overexpression in Escherichia coli K-12. <i>Molecular Genetics and Genomics</i> , 1994, 245, 741-749. | 2.4 | 21 |

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|----|--|----|-----------|
| 55 | RecA-Dependent Mechanisms for the Generation of Genetic Diversity. , 0, , 21-35. | | 0 |