

Laura S Frost

List of Publications by Year in descending order

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70
papers

5,532
citations

101543

36
h-index

102487

66
g-index

70
all docs

70
docs citations

70
times ranked

4461
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Cooperative Function of TraJ and ArcA in Regulating the F Plasmid tra Operon. <i>Journal of Bacteriology</i> , 2019, 201, . | 2.2 | 11 |
| 2 | The FinO family of bacterial RNA chaperones. <i>Plasmid</i> , 2015, 78, 79-87. | 1.4 | 57 |
| 3 | Mechanistic Basis of Plasmid-Specific DNA Binding of the F Plasmid Regulatory Protein, TraM. <i>Journal of Molecular Biology</i> , 2014, 426, 3783-3795. | 4.2 | 10 |
| 4 | F conjugation: Back to the beginning. <i>Plasmid</i> , 2013, 70, 18-32. | 1.4 | 131 |
| 5 | Error-Prone PCR Mutagenesis Reveals Functional Domains of a Bacterial Transcriptional Activator, TraJ. <i>Journal of Bacteriology</i> , 2012, 194, 3670-3677. | 2.2 | 8 |
| 6 | ProQ Is an RNA Chaperone that Controls ProP Levels in <i>Escherichia coli</i> . <i>Biochemistry</i> , 2011, 50, 3095-3106. | 2.5 | 80 |
| 7 | Structural basis of cooperative DNA recognition by the plasmid conjugation factor, TraM. <i>Nucleic Acids Research</i> , 2011, 39, 6775-6788. | 14.5 | 41 |
| 8 | Mapping interactions between the RNA chaperone FinO and its RNA targets. <i>Nucleic Acids Research</i> , 2011, 39, 4450-4463. | 14.5 | 40 |
| 9 | The F plasmid transfer activator TraJ is a dimeric helix-turn-helix DNA-binding protein. <i>FEMS Microbiology Letters</i> , 2010, 310, 112-119. | 1.8 | 18 |
| 10 | Conjugative DNA metabolism in Gram-negative bacteria. <i>FEMS Microbiology Reviews</i> , 2010, 34, 18-40. | 8.6 | 318 |
| 11 | The σ^E stress response is required for stress-induced mutation and amplification in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2010, 77, 415-430. | 2.5 | 63 |
| 12 | F Plasmid TraF and TraH Are Components of an Outer Membrane Complex Involved in Conjugation. <i>Journal of Bacteriology</i> , 2010, 192, 1730-1734. | 2.2 | 33 |
| 13 | N. meningitidis 1681 is a member of the FinO family of RNA chaperones. <i>RNA Biology</i> , 2010, 7, 812-819. | 3.1 | 28 |
| 14 | Regulation of bacterial conjugation: balancing opportunity with adversity. <i>Future Microbiology</i> , 2010, 5, 1057-1071. | 2.0 | 154 |
| 15 | Activation of the Cpx regulon destabilizes the F plasmid transfer activator, TraJ, via the HslVU protease in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2008, 67, 516-527. | 2.5 | 42 |
| 16 | Structural basis of specific TraD-TraM recognition during F plasmid-mediated bacterial conjugation. <i>Molecular Microbiology</i> , 2008, 70, 89-99. | 2.5 | 61 |
| 17 | Towards a systems biology approach to study type II/IV secretion systems. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008, 1778, 1839-1850. | 2.6 | 27 |
| 18 | Entry exclusion in F-like plasmids requires intact TraG in the donor that recognizes its cognate TraS in the recipient. <i>Microbiology (United Kingdom)</i> , 2007, 153, 442-451. | 1.8 | 64 |

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|----|--|------|-----------|
| 19 | Protonation-mediated structural flexibility in the F conjugation regulatory protein, TraM. <i>EMBO Journal</i> , 2006, 25, 2930-2939. | 7.8 | 27 |
| 20 | Hfq Is a Regulator of F-Plasmid TraJ and TraM Synthesis in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2006, 188, 124-131. | 2.2 | 32 |
| 21 | Characterization of the Opposing Roles of H-NS and TraJ in Transcriptional Regulation of the F-Plasmid tra Operon. <i>Journal of Bacteriology</i> , 2006, 188, 507-514. | 2.2 | 41 |
| 22 | Mobile genetic elements: the agents of open source evolution. <i>Nature Reviews Microbiology</i> , 2005, 3, 722-732. | 28.6 | 1,428 |
| 23 | The F-plasmid, a paradigm for bacterial conjugation. , 2005, , 151-206. | | 5 |
| 24 | Mutations in the C-Terminal Region of TraM Provide Evidence for In Vivo TraM-TraD Interactions during F-Plasmid Conjugation. <i>Journal of Bacteriology</i> , 2005, 187, 4767-4773. | 2.2 | 52 |
| 25 | F-Like Type IV Secretion Systems Encode Proteins with Thioredoxin Folds That Are Putative DsbC Homologues. <i>Journal of Bacteriology</i> , 2005, 187, 8267-8277. | 2.2 | 23 |
| 26 | The mating pair stabilization protein, TraN, of the F plasmid is an outer-membrane protein with two regions that are important for its function in conjugation. <i>Microbiology (United Kingdom)</i> , 2005, 151, 3527-3540. | 1.8 | 58 |
| 27 | Genome-Wide Analysis of Lipoprotein Expression in <i>Escherichia coli</i> MG1655. <i>Journal of Bacteriology</i> , 2004, 186, 3254-3258. | 2.2 | 38 |
| 28 | Mutational Analysis of TraM Correlates Oligomerization and DNA Binding with Autoregulation and Conjugative DNA Transfer. <i>Journal of Biological Chemistry</i> , 2004, 279, 55324-55333. | 3.4 | 14 |
| 29 | The role of H-NS in silencing F transfer gene expression during entry into stationary phase. <i>Molecular Microbiology</i> , 2004, 54, 769-782. | 2.5 | 49 |
| 30 | Crystallization and preliminary diffraction studies of TraF, a component of the <i>Escherichia coli</i> type IV secretory system. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 2025-2027. | 2.5 | 4 |
| 31 | A rapid screen for functional mutants of TraM, an autoregulatory protein required for F conjugation. <i>Molecular Genetics and Genomics</i> , 2003, 269, 227-233. | 2.1 | 7 |
| 32 | F factor conjugation is a true type IV secretion system. <i>FEMS Microbiology Letters</i> , 2003, 224, 1-15. | 1.8 | 381 |
| 33 | FinO is an RNA chaperone that facilitates sense-antisense RNA interactions. <i>EMBO Journal</i> , 2003, 22, 6346-6355. | 7.8 | 67 |
| 34 | Characterizing the Structural Features of RNA/RNA Interactions of the F-plasmid FinOP Fertility Inhibition System. <i>Journal of Biological Chemistry</i> , 2003, 278, 27663-27671. | 3.4 | 22 |
| 35 | The Positive Regulator, TraJ, of the <i>Escherichia coli</i> F Plasmid Is Unstable in a cpxA * Background. <i>Journal of Bacteriology</i> , 2002, 184, 5781-5788. | 2.2 | 38 |
| 36 | Characterizing the DNA Contacts and Cooperative Binding of F Plasmid TraM to Its Cognate Sites at oriT. <i>Journal of Biological Chemistry</i> , 2002, 277, 16705-16711. | 3.4 | 28 |

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|----|---|------|-----------|
| 37 | Mechanisms of Gene Exchange Between Bacteria. , 2002, , 355-400. | | 5 |
| 38 | Mutational analysis of F-pilin reveals domains for pilus assembly, phage infection and DNA transfer. Molecular Microbiology, 2002, 43, 195-205. | 2.5 | 55 |
| 39 | Analysis and characterization of the IncFV plasmid pED208 transfer region. Plasmid, 2002, 48, 24-37. | 1.4 | 38 |
| 40 | Crystal structure of the bacterial conjugation repressor finO. Nature Structural Biology, 2000, 7, 565-569. | 9.7 | 43 |
| 41 | Mobilization of Chimeric oriT Plasmids by F and R100-1: Role of Relaxosome Formation in Defining Plasmid Specificity. Journal of Bacteriology, 2000, 182, 4022-4027. | 2.2 | 36 |
| 42 | In Vitro Analysis of the Interaction between the FinO Protein and FinP Antisense RNA of F-like Conjugative Plasmids. Journal of Biological Chemistry, 1999, 274, 10356-10362. | 3.4 | 33 |
| 43 | The FinO Repressor of Bacterial Conjugation Contains Two RNA Binding Regions. Biochemistry, 1999, 38, 14036-14044. | 2.5 | 19 |
| 44 | Degradation of FinP antisense RNA from F-like plasmids: the RNA-binding protein, FinO, protects FinP from ribonuclease E 1 1Edited by E. Draper. Journal of Molecular Biology, 1999, 285, 1457-1473. | 4.2 | 79 |
| 45 | Comparison of Proteins Involved in Pilus Synthesis and Mating Pair Stabilization from the Related Plasmids F and R100-1: Insights into the Mechanism of Conjugation. Journal of Bacteriology, 1999, 181, 5149-5159. | 2.2 | 84 |
| 46 | Analysis of the major domains of the F fertility inhibition protein, FinO. Molecular Genetics and Genomics, 1998, 259, 622-629. | 2.4 | 17 |
| 47 | A Novel and Ubiquitous System for Membrane Targeting and Secretion of Cofactor-Containing Proteins. Cell, 1998, 93, 93-101. | 28.9 | 446 |
| 48 | Epitopes fused to F-pilin are incorporated into functional recombinant pili. Journal of Molecular Biology, 1998, 279, 589-603. | 4.2 | 14 |
| 49 | F- phenocopies: characterization of expression of the F transfer region in stationary phase. Microbiology (United Kingdom), 1998, 144, 2579-2587. | 1.8 | 63 |
| 50 | Genetic Analysis of the Role of the Transfer Gene, <i>traN</i> , of the F and R100-1 Plasmids in Mating Pair Stabilization during Conjugation. Journal of Bacteriology, 1998, 180, 4036-4043. | 2.2 | 64 |
| 51 | Selective phage infection mediated by epitope expression on F pilus 1 1Edited by J. Karn. Journal of Molecular Biology, 1997, 273, 544-551. | 4.2 | 39 |
| 52 | Transcriptional analysis and regulation of carnobacteriocin production in Carnobacterium piscicola LV17. Gene, 1997, 188, 271-277. | 2.2 | 25 |
| 53 | Construction of derivatives of the F plasmid pOX-tra715: characterization of <i>traY</i> and <i>traD</i> mutants that can be complemented in trans. Molecular Microbiology, 1996, 22, 197-205. | 2.5 | 19 |
| 54 | Regulation of the expression of the <i>traM</i> gene of the F sex factor of Escherichia coli. Molecular Microbiology, 1996, 20, 549-558. | 2.5 | 56 |

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|----|--|------|-----------|
| 55 | Stationary Phase Expression of a Novel Escherichia coli Outer Membrane Lipoprotein and Its Relationship with Mammalian Apolipoprotein D. <i>Journal of Biological Chemistry</i> , 1995, 270, 23097-23103. | 3.4 | 76 |
| 56 | The role of the pilus in recipient cell recognition during bacterial conjugation mediated by F-like plasmids. <i>Molecular Microbiology</i> , 1994, 13, 939-953. | 2.5 | 103 |
| 57 | The FinO protein of IncF plasmids binds FinP antisense RNA and its target, traJ mRNA, and promotes duplex formation. <i>Molecular Microbiology</i> , 1994, 14, 427-436. | 2.5 | 78 |
| 58 | Studies on the pili of the promiscuous plasmid RP4. <i>Developments in Plant Pathology</i> , 1994, , 47-65. | 0.1 | 4 |
| 59 | Structural and functional analyses of the FinP antisense RNA regulatory system of the F conjugative plasmid. <i>Molecular Microbiology</i> , 1993, 10, 35-43. | 2.5 | 45 |
| 60 | Conjugative Pili and Pilus-Specific Phages. , 1993, , 189-221. | | 43 |
| 61 | FinOP repression of the F plasmid involves extension of the half-life of FinP antisense RNA by FinO. <i>Molecular Genetics and Genomics</i> , 1992, 235, 131-139. | 2.4 | 39 |
| 62 | The TraM protein of the conjugative plasmid F binds to the origin of transfer of the F and ColE1 plasmids. <i>Molecular Microbiology</i> , 1992, 6, 2951-2959. | 2.5 | 60 |
| 63 | finP and fisO mutations in FinP anti-sense RNA suggest a model for FinOP action in the repression of bacterial conjugation by the Flac plasmid JCFLO. <i>Molecular Genetics and Genomics</i> , 1989, 218, 152-160. | 2.4 | 42 |
| 64 | The activity of the <i>Pseudomonas aeruginosa</i> pilin promoter is enhanced by an upstream regulatory site. <i>Gene</i> , 1989, 81, 25-34. | 2.2 | 20 |
| 65 | DNA sequence analysis of point mutations in traA, the F pilin gene, reveal two domains involved in F-specific bacteriophage attachment. <i>Molecular Genetics and Genomics</i> , 1988, 213, 134-139. | 2.4 | 24 |
| 66 | The expression of <i>Pseudomonas aeruginosa</i> PAK pilin gene mutants in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 1988, 2, 185-195. | 2.5 | 19 |
| 67 | The Physiology and Biochemistry of Pili. <i>Advances in Microbial Physiology</i> , 1988, 29, 53-114. | 2.4 | 159 |
| 68 | Biochemical studies on pili isolated from <i>Pseudomonas aeruginosa</i> strain PAO. <i>Canadian Journal of Microbiology</i> , 1979, 25, 1175-1181. | 1.7 | 100 |
| 69 | N-methylphenylalanine at the N-terminus of pilin isolated from <i>Pseudomonas aeruginosa</i> K.. <i>Nature</i> , 1978, 271, 87-89. | 27.8 | 54 |
| 70 | Bacterial Conjugation in Gram-Negative Bacteria. , 0, , 203-226. | | 31 |