

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	Mobile genetic elements: the agents of open source evolution. <i>Nature Reviews Microbiology</i> , 2005, 3, 722-732.	28.6	1,428
2	A Novel and Ubiquitous System for Membrane Targeting and Secretion of Cofactor-Containing Proteins. <i>Cell</i> , 1998, 93, 93-101.	28.9	446
3	F factor conjugation is a true type IV secretion system. <i>FEMS Microbiology Letters</i> , 2003, 224, 1-15.	1.8	381
4	Conjugative DNA metabolism in Gram-negative bacteria. <i>FEMS Microbiology Reviews</i> , 2010, 34, 18-40.	8.6	318
5	The Physiology and Biochemistry of Pili. <i>Advances in Microbial Physiology</i> , 1988, 29, 53-114.	2.4	159
6	Regulation of bacterial conjugation: balancing opportunity with adversity. <i>Future Microbiology</i> , 2010, 5, 1057-1071.	2.0	154
7	F conjugation: Back to the beginning. <i>Plasmid</i> , 2013, 70, 18-32.	1.4	131
8	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
9	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
10	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. <i>Journal of Bacteriology</i> , 1999, 181, 5149-5159.	2.2	84
11	ProQ Is an RNA Chaperone that Controls ProP Levels in <i>Escherichia coli</i> . <i>Biochemistry</i> , 2011, 50, 3095-3106.	2.5	80
12	Degradation of FinP antisense RNA from F-like plasmids: the RNA-binding protein, FinO, protects FinP from ribonuclease E 1 Edited by E. Draper. <i>Journal of Molecular Biology</i> , 1999, 285, 1457-1473.	4.2	79
13	The FinO protein of IncF plasmids binds FinP antisense RNA and its target, <i>traJ</i> mRNA, and promotes duplex formation. <i>Molecular Microbiology</i> , 1994, 14, 427-436.	2.5	78
14	Stationary Phase Expression of a Novel <i>Escherichia coli</i> Outer Membrane Lipoprotein and Its Relationship with Mammalian Apolipoprotein D. <i>Journal of Biological Chemistry</i> , 1995, 270, 23097-23103.	3.4	76
15	FinO is an RNA chaperone that facilitates sense-antisense RNA interactions. <i>EMBO Journal</i> , 2003, 22, 6346-6355.	7.8	67
16	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
17	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. <i>Journal of Bacteriology</i> , 1998, 180, 4036-4043.	2.2	64
18	F- phenocopies: characterization of expression of the F transfer region in stationary phase. <i>Microbiology (United Kingdom)</i> , 1998, 144, 2579-2587.	1.8	63

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19	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
20	Structural basis of specific TraD-TraM recognition during F plasmid-mediated bacterial conjugation. <i>Molecular Microbiology</i> , 2008, 70, 89-99.	2.5	61
21	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
22	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
23	The FinO family of bacterial RNA chaperones. <i>Plasmid</i> , 2015, 78, 79-87.	1.4	57
24	Regulation of the expression of the traM gene of the F sex factor of <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 1996, 20, 549-558.	2.5	56
25	Mutational analysis of F-pilin reveals domains for pilus assembly, phage infection and DNA transfer. <i>Molecular Microbiology</i> , 2002, 43, 195-205.	2.5	55
26	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
27	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
28	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
29	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
30	Crystal structure of the bacterial conjugation repressor finO. <i>Nature Structural Biology</i> , 2000, 7, 565-569.	9.7	43
31	Conjugative Pili and Pilus-Specific Phages. , 1993, , 189-221.		43
32	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
33	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
34	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
35	Structural basis of cooperative DNA recognition by the plasmid conjugation factor, TraM. <i>Nucleic Acids Research</i> , 2011, 39, 6775-6788.	14.5	41
36	Mapping interactions between the RNA chaperone FinO and its RNA targets. <i>Nucleic Acids Research</i> , 2011, 39, 4450-4463.	14.5	40

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37	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
38	Selective phage infection mediated by epitope expression on F pilus 1 Edited by J. Karn. <i>Journal of Molecular Biology</i> , 1997, 273, 544-551.	4.2	39
39	The Positive Regulator, TraJ, of the Escherichia coli F Plasmid Is Unstable in a cpxA * Background. <i>Journal of Bacteriology</i> , 2002, 184, 5781-5788.	2.2	38
40	Analysis and characterization of the IncFV plasmid pED208 transfer region. <i>Plasmid</i> , 2002, 48, 24-37.	1.4	38
41	Genome-Wide Analysis of Lipoprotein Expression in Escherichia coli MG1655. <i>Journal of Bacteriology</i> , 2004, 186, 3254-3258.	2.2	38
42	Mobilization of Chimeric oriT Plasmids by F and R100-1: Role of Relaxosome Formation in Defining Plasmid Specificity. <i>Journal of Bacteriology</i> , 2000, 182, 4022-4027.	2.2	36
43	In Vitro Analysis of the Interaction between the FinO Protein and FinP Antisense RNA of F-like Conjugative Plasmids. <i>Journal of Biological Chemistry</i> , 1999, 274, 10356-10362.	3.4	33
44	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
45	Hfq Is a Regulator of F-Plasmid TraJ and TraM Synthesis in Escherichia coli. <i>Journal of Bacteriology</i> , 2006, 188, 124-131.	2.2	32
46	Bacterial Conjugation in Gram-Negative Bacteria. , 0, , 203-226.		31
47	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
48	N. meningitidis1681 is a member of the FinO family of RNA chaperones. <i>RNA Biology</i> , 2010, 7, 812-819.	3.1	28
49	Protonation-mediated structural flexibility in the F conjugation regulatory protein, TraM. <i>EMBO Journal</i> , 2006, 25, 2930-2939.	7.8	27
50	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
51	Transcriptional analysis and regulation of carnobacteriocin production in <i>Carnobacterium piscicola</i> LV17. <i>Gene</i> , 1997, 188, 271-277.	2.2	25
52	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
53	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
54	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

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55	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
56	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
57	Construction of derivatives of the F plasmid pOX-tra715: characterization of traY and traD mutants that can be complemented in trans. <i>Molecular Microbiology</i> , 1996, 22, 197-205.	2.5	19
58	The FinO Repressor of Bacterial Conjugation Contains Two RNA Binding Regions. <i>Biochemistry</i> , 1999, 38, 14036-14044.	2.5	19
59	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
60	Analysis of the major domains of the F fertility inhibition protein, FinO. <i>Molecular Genetics and Genomics</i> , 1998, 259, 622-629.	2.4	17
61	Epitopes fused to F-pilin are incorporated into functional recombinant pili. <i>Journal of Molecular Biology</i> , 1998, 279, 589-603.	4.2	14
62	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
63	Cooperative Function of TraJ and ArcA in Regulating the F Plasmid tra Operon. <i>Journal of Bacteriology</i> , 2019, 201, .	2.2	11
64	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
65	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
66	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
67	Mechanisms of Gene Exchange Between Bacteria. , 2002, , 355-400.		5
68	The F-plasmid, a paradigm for bacterial conjugation. , 2005, , 151-206.		5
69	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
70	Studies on the pili of the promiscuous plasmid RP4. <i>Developments in Plant Pathology</i> , 1994, , 47-65.	0.1	4