Kelly T Hughes

List of Publications by Year
in descending order

83 papers	5,447 citations	87723 38 h-index	88477 70 g-index
85 all docs	85 docs citations	85 times ranked	4050 citing authors

#	Article	IF	Citations
1	Targeting early proximal-rod component substrate FlgB to FlhB for flagellar-type III secretion in Salmonella. PLoS Genetics, 2022, 18, e1010313.	1.5	4
2	Molecular structure of the intact bacterial flagellar basal body. Nature Microbiology, 2021, 6, 712-721.	5.9	61
3	Genetic Analysis of the Salmonella FliE Protein That Forms the Base of the Flagellar Axial Structure. MBio, 2021, 12, e0239221.	1.8	10
4	Type 1 interferon-dependent repression of NLRC4 and iPLA2 licenses down-regulation of <i>Salmonella</i> flagellin inside macrophages. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 29811-29822.	3.3	8
5	Methylation of Salmonella Typhimurium flagella promotes bacterial adhesion and host cell invasion. Nature Communications, 2020, 11, 2013.	5.8	68
6	Integration of the pSLT Plasmid into the Salmonella Chromosome Results in a Temperature-Sensitive Growth Defect Due to Aberrant DNA Replication. Journal of Bacteriology, 2020, 202, .	1.0	0
7	Typeâ€III secretion pore formed by flagellar protein FliP. Molecular Microbiology, 2018, 107, 94-103.	1.2	30
8	â€œLost in translation: Seeing the forest by focusing on the treesâ€ RNA Biology, 2018, 15, 182-185.	1.5	0
9	Thailandamide, a Fatty Acid Synthesis Antibiotic That Is Coexpressed with a Resistant Target Gene. Antimicrobial Agents and Chemotherapy, 2018, 62, .	1.4	18
10	Mechanism of typeâ€<scp>III</scp> protein secretion: Regulation of <scp>F</scp>lh<scp>A</scp> conformation by a functionally critical chargedâ€residue cluster. Molecular Microbiology, 2017, 104, 234-249.	1.2	57
11	Nanoscale-length control of the flagellar driveshaft requires hitting the tethered outer membrane. Science, 2017, 356, 197-200.	6.0	86
12	Case for the genetic code as a triplet of triplets. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4745-4750.	3.3	33
13	Variability in bacterial flagella re-growth patterns after breakage. Scientific Reports, 2017, 7, 1282.	1.6	20
14	Dual host specificity of phage SP6 is facilitated by tailspike rotation. Virology, 2017, 507, 206-215.	1.1	37
15	Flagellum Length Control: How Long Is Long Enough?. Current Biology, 2017, 27, R413-R415.	1.8	12
16	Identical folds used for distinct mechanical functions of the bacterial flagellar rod and hook. Nature Communications, 2017, 8, 14276.	5.8	60
17	Coupling of Flagellar Gene Expression with Assembly in Salmonella enterica. Methods in Molecular Biology, 2017, 1593, 47-71.	0.4	12
18	The bacterium has landed. Science, 2017, 358, 446-447.	6.0	21

#	Article	IF	Citations
19	Communication across the bacterial cell envelope depends on the size of the periplasm. PLoS Biology, 2017, 15, e2004303.	2.6	108
20	Mg2+-dependent translational speed bump acts to regulate gene transcription. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14881-14883.	3.3	2
21	Systematic Nomenclature for GGDEF and EAL Domain-Containing Cyclic Di-GMP Turnover Proteins of Escherichia coli. Journal of Bacteriology, 2016, 198, 7-11.	1.0	96
22	Molecular ruler determines needle length for the <i>Salmonella</i> Spi-1 injectisome. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4098-4103.	3.3	33
23	Genome Sequence of Salmonella Phage Ï‡. Genome Announcements, 2015, 3, .	0.8	25
24	FliT Selectively Enhances Proteolysis of FlhC Subunit in FlhD4C2 Complex by an ATP-dependent Protease, ClpXP. Journal of Biological Chemistry, 2014, 289, 33001-33011.	1.6	26
25	Rod-to-Hook Transition for Extracellular Flagellum Assembly Is Catalyzed by the L-Ring-Dependent Rod Scaffold Removal. Journal of Bacteriology, 2014, 196, 2387-2395.	1.0	45
26	The Effect of Cell Growth Phase on the Regulatory Cross-Talk between Flagellar and Spi1 Virulence Gene Expression. PLoS Pathogens, 2014, 10, e1003987.	2.1	58
27	The Effects of Codon Context on In Vivo Translation Speed. PLoS Genetics, 2014, 10, e1004392.	1.5	124
28	ATPase-Independent Type-III Protein Secretion in Salmonella enterica. PLoS Genetics, 2014, 10, e1004800.	1.5	78
29	Comparative analysis of the secretion capability of early and late flagellar type <scp>III</scp> secretion substrates. Molecular Microbiology, 2014, 93, 505-520.	1.2	28
30	The Salmonella Spi1 Virulence Regulatory Protein HilD Directly Activates Transcription of the Flagellar Master Operon <i>flhDC</i>. Journal of Bacteriology, 2014, 196, 1448-1457.	1.0	77
31	Analysis of Factors That Affect FlgM-Dependent Type III Secretion for Protein Purification with Salmonella enterica Serovar Typhimurium. Journal of Bacteriology, 2014, 196, 2333-2347.	1.0	14
32	RflM Functions as a Transcriptional Repressor in the Autogenous Control of the Salmonella Flagellar Master Operon flhDC. Journal of Bacteriology, 2013, 195, 4274-4282.	1.0	28
33	Rebuttal: Mystery of FliK in Length Control of the Flagellar Hook. Journal of Bacteriology, 2012, 194, 4801-4801.	1.0	14
34	Selective Purification of Recombinant Neuroactive Peptides Using the Flagellar Type III Secretion System. MBio, 2012, 3, .	1.8	38
35	Flagellar Hook Length Is Controlled by a Secreted Molecular Ruler. Journal of Bacteriology, 2012, 194, 4793-4796.	1.0	21
36	The Locus of Enterocyte Effacement Type III Secretion Specificity Switch: the Devil's in the Data for a Common Mechanism. Journal of Bacteriology, 2012, 194, 6019-6022.	1.0	4

#	Article	IF	Citations
37	YdiV: a dual function protein that targets FlhDC for ClpXPâ€dependent degradation by promoting release of DNAâ€bound FlhDC complex. Molecular Microbiology, 2012, 83, 1268-1284.	1.2	82
38	An infrequent molecular ruler controls flagellar hook length in<i>Salmonella enterica</i>. EMBO Journal, 2011, 30, 2948-2961.	3.5	123
39	Câ€ring requirement in flagellar type III secretion is bypassed by FlhDC upregulation. Molecular Microbiology, 2010, 75, 376-393.	1.2	55
40	The role of the FliK molecular ruler in hookâ€length control in <i>Salmonella enterica</i>. Molecular Microbiology, 2010, 75, 1272-1284.	1.2	47
41	Multiple Promoters Contribute to Swarming and the Coordination of Transcription with Flagellar Assembly in <i>Salmonella</i>. Journal of Bacteriology, 2010, 192, 4752-4762.	1.0	35
42	Bacterial Nanomachines: The Flagellum and Type III Injectisome. Cold Spring Harbor Perspectives in Biology, 2010, 2, a000299-a000299.	2.3	212
43	T-POP Array Identifies EcnR and PefI-SrgD as Novel Regulators of Flagellar Gene Expression. Journal of Bacteriology, 2009, 191, 1498-1508.	1.0	47
44	Autonomous and FliK-Dependent Length Control of the Flagellar Rod in <i>Salmonella enterica</i>. Journal of Bacteriology, 2009, 191, 6469-6472.	1.0	9
45	The Helicobacter pylori Anti-Sigma Factor FlgM Is Predominantly Cytoplasmic and Cooperates with the Flagellar Basal Body Protein FlhA. Journal of Bacteriology, 2009, 191, 4824-4834.	1.0	21
46	Mutations in Flk, FlgG, FlhA, and FlhE That Affect the Flagellar Type III Secretion Specificity Switch in <i>Salmonella enterica</i>. Journal of Bacteriology, 2009, 191, 3938-3949.	1.0	44
47	Interaction of FliK with the bacterial flagellar hook is required for efficient export specificity switching. Molecular Microbiology, 2009, 74, 239-251.	1.2	52
48	Energy source of flagellar typeâ€‰III secretion. Nature, 2008, 451, 489-492.	13.7	289
49	Coordinating assembly of a bacterial macromolecular machine. Nature Reviews Microbiology, 2008, 6, 455-465.	13.6	609
50	Genetic Dissection of the Consensus Sequence for the Class 2 and Class 3 Flagellar Promoters. Journal of Molecular Biology, 2008, 379, 936-952.	2.0	19
51	Generation of Deletions and Duplications Using Transposons as Portable Regions of Homology with Emphasis on Mud and Tn10 Transposons. Methods in Enzymology, 2007, 421, 51-68.	0.4	3
52	The mechanism of outer membrane penetration by the eubacterial flagellum and implications for spirochete evolution. Genes and Development, 2007, 21, 2326-2335.	2.7	62
53	Use of Operon and Gene Fusions to Study Gene Regulation in Salmonella. Methods in Enzymology, 2007, 421, 140-158.	0.4	12
54	2P027 Structural insights into the difference between the rod as a drive shaft and the hook as a universal joint of the bacterial flagellum(Proteins-structure and structure-function) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 57 Td (relations		

#	Article	IF	Citations
55	FliK regulates flagellar hook length as an internal ruler. Molecular Microbiology, 2007, 64, 1404-1415.	1.2	92
56	The Type III Flagellar Export Specificity Switch is Dependent on FliK Ruler and a Molecular Clock. Journal of Molecular Biology, 2006, 359, 466-477.	2.0	100
57	2P265 Structure of the Bacterial Flagellar Poly-rod by Electron Cryomicroscopy and Image Analysis(39. Cell motility,Poster Session,Abstract,Meeting Program of EABS & BSJ 2006). Seibutsu Butsuri, 2006, 46, S362.	0.0	0
58	Flk prevents premature secretion of the anti-sigma factor FlgM into the periplasm. Molecular Microbiology, 2006, 60, 630-643.	1.2	52
59	Genetic Transplantation: Salmonella enterica Serovar Typhimurium as a Host To Study Sigma Factor and Anti-Sigma Factor Interactions in GeneticallyIntractable Systems. Journal of Bacteriology, 2006, 188, 103-114.	1.0	27
60	Ïƒ 28 -Dependent Transcription in Salmonella enterica Is Independent of Flagellar Shearing. Journal of Bacteriology, 2006, 188, 5196-5203.	1.0	17
61	The flagellar-specific transcription factor, Â28, is the Type III secretion chaperone for the flagellar-specific anti-Â28 factor FlgM. Genes and Development, 2006, 20, 2315-2326.	2.7	70
62	A Little Gene with Big Effects: a serT Mutant Is Defective in flgM Gene Translation. Journal of Bacteriology, 2006, 188, 297-304.	1.0	11
63	Identification of New Flagellar Genes of Salmonella enterica Serovar Typhimurium. Journal of Bacteriology, 2006, 188, 2233-2243.	1.0	140
64	Posttranscriptional Control of the Salmonella enterica Flagellar Hook Protein FlgE. Journal of Bacteriology, 2006, 188, 3308-3316.	1.0	30
65	Keeping your lawn wet. EMBO Reports, 2005, 6, 518-519.	2.0	0
66	The type III secretion chaperone FlgN regulates flagellar assembly via a negative feedback loop containing its chaperone substrates FlgK and FlgL. Molecular Microbiology, 2003, 49, 1333-1345.	1.2	82
67	Regulation of flagellar assembly. Current Opinion in Microbiology, 2002, 5, 160-165.	2.3	316
68	A multipartite interaction between Salmonella transcription factor Ïƒ28 and its anti-sigma factor FlgM: implications for Ïƒ28 holoenzyme destabilization through stepwise binding. Journal of Molecular Biology, 2001, 306, 915-929.	2.0	55
69	Putting a lid on it. , 2001, 8, 96-97.		5
70	Completion of the hook-basal body complex of the Salmonella typhimurium flagellum is coupled to FlgM secretion and fliC transcription. Molecular Microbiology, 2000, 37, 1220-1231.	1.2	169
71	Coupling of Flagellar Gene Expression to Flagellar Assembly in Salmonella enterica Serovar Typhimurium and Escherichia coli. Microbiology and Molecular Biology Reviews, 2000, 64, 694-708.	2.9	579
72	The Flagellar Hook Protein, FlgE, of Salmonella enterica Serovar Typhimurium Is Posttranscriptionally Regulated in Response to the Stage of Flagellar Assembly. Journal of Bacteriology, 2000, 182, 4044-4050.	1.0	27

#	Article	IF	Citations
73	Translation/Secretion Coupling by Type III Secretion Systems. Cell, 2000, 102, 487-497.	13.5	127
74	The type III secretion determinants of the flagellar anti-transcription factor, FlgM, extend from the amino-terminus into the anti-sigma28 domain. Molecular Microbiology, 1998, 30, 1029-1040.	1.2	43
75	In Vivo Identification of Intermediate Stages of the DNA Inversion Reaction Catalyzed by the Salmonella Hin Recombinase. Genetics, 1998, 149, 1649-1663.	1.2	20
76	Flk Couples <i>flgM</i> Translation to Flagellar Ring Assembly in <i>Salmonella typhimurium</i>. Journal of Bacteriology, 1998, 180, 5384-5397.	1.0	35
77	The C-terminal half of the anti-sigma factor, FlgM, becomes structured when bound to its target, Ïƒ28. Nature Structural Biology, 1997, 4, 285-291.	9.7	174
78	Role of arginineâ€43 and arginineâ€69 of the Hin recombinase catalytic domain in the binding of Hin toâ€ƒthe hix DNA recombination sites. Molecular Microbiology, 1997, 24, 1235-1247.	1.2	12
79	The role of anti-sigma factors in gene regulation. Molecular Microbiology, 1995, 16, 397-404.	1.2	103
80	DIRECTED FORMATION OF DELETIONS AND DUPLICATIONS USING Mu<i>d</i>(Ap, <i>lac</i>). Genetics, 1985, 109, 263-282.	1.2	83
81	Phage and Bacterial Genetics at Cold Spring Harbor Laboratory. , 0, , 23-25.		1
82	Fishing for Fluke: the Genetics of Flk and the Flagellar Type 3 Secretion Specificity Switch. , 0, , 99-113.		0
83	John Roth's Paths and Pathways. , 0, , 1-7.		0