

Lee Kroos

List of Publications by Year in descending order

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76
papers

3,408
citations

185998

28
h-index

161609

54
g-index

78
all docs

78
docs citations

78
times ranked

1690
citing authors

#	ARTICLE	IF	CITATIONS
1	A global analysis of developmentally regulated genes in <i>Myxococcus xanthus</i> . <i>Developmental Biology</i> , 1986, 117, 252-266.	0.9	321
2	Developmental cheating in the social bacterium <i>Myxococcus xanthus</i> . <i>Nature</i> , 2000, 404, 598-601.	13.7	301
3	A forespore checkpoint for mother cell gene expression during development in <i>B. subtilis</i> . <i>Cell</i> , 1990, 62, 239-250.	13.5	196
4	Intercellular signaling is required for developmental gene expression in <i>Myxococcus xanthus</i> . <i>Developmental Biology</i> , 1986, 117, 267-276.	0.9	167
5	Identification of the promoter for a spore coat protein gene in <i>Bacillus subtilis</i> and studies on the regulation of its induction at a late stage of sporulation. <i>Journal of Molecular Biology</i> , 1988, 200, 461-473.	2.0	134
6	Control of sigma factor activity during <i>Bacillus subtilis</i> sporulation. <i>Molecular Microbiology</i> , 1999, 31, 1285-1294.	1.2	122
7	The <i>Bacillus</i> and <i>Myxococcus</i> Developmental Networks and Their Transcriptional Regulators. <i>Annual Review of Genetics</i> , 2007, 41, 13-39.	3.2	122
8	Yapsins Are a Family of Aspartyl Proteases Required for Cell Wall Integrity in <i>Saccharomyces cerevisiae</i> . <i>Eukaryotic Cell</i> , 2005, 4, 1364-1374.	3.4	115
9	Sporulation regulatory protein <i>gerE</i> from <i>Bacillus subtilis</i> binds to and can activate or repress transcription from promoters for mother-cell-specific genes. <i>Journal of Molecular Biology</i> , 1992, 226, 1037-1050.	2.0	114
10	Regulation of <i>dev</i> , an Operon That Includes Genes Essential for <i>Myxococcus xanthus</i> Development and CRISPR-Associated Genes and Repeats. <i>Journal of Bacteriology</i> , 2007, 189, 3738-3750.	1.0	99
11	Sporulation and Enterotoxin (CPE) Synthesis Are Controlled by the Sporulation-Specific Sigma Factors <i>SigE</i> and <i>SigK</i> in <i>Clostridium perfringens</i> . <i>Journal of Bacteriology</i> , 2009, 191, 2728-2742.	1.0	98
12	<i>Myxobacteria</i> , Polarity, and Multicellular Morphogenesis. <i>Cold Spring Harbor Perspectives in Biology</i> , 2010, 2, a000380-a000380.	2.3	79
13	Regulation of the Transcription of a Cluster of <i>Bacillus subtilis</i> Spore Coat Genes. <i>Journal of Molecular Biology</i> , 1994, 240, 405-415.	2.0	71
14	Sporulation Regulatory Protein <i>SpoIIID</i> from <i>Bacillus subtilis</i> Activates and Represses Transcription by Both Mother-cell-specific Forms of RNA Polymerase. <i>Journal of Molecular Biology</i> , 1994, 243, 425-436.	2.0	71
15	Evidence that <i>SpoIVFB</i> Is a Novel Type of Membrane Metalloprotease Governing Intercompartmental Communication during <i>Bacillus subtilis</i> Sporulation. <i>Journal of Bacteriology</i> , 2000, 182, 3305-3309.	1.0	69
16	The Prosequence of Pro- σ^H Promotes Membrane Association and Inhibits RNA Polymerase Core Binding. <i>Journal of Bacteriology</i> , 1998, 180, 2434-2441.	1.0	65
17	Regulation of σ^H factor activity during <i>Bacillus subtilis</i> development. <i>Current Opinion in Microbiology</i> , 2000, 3, 553-560.	2.3	63
18	Regulated proteolysis in bacterial development. <i>FEMS Microbiology Reviews</i> , 2014, 38, 493-522.	3.9	60

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19	Highly Signal-Responsive Gene Regulatory Network Governing Myxococcus Development. Trends in Genetics, 2017, 33, 3-15.	2.9	58
20	Biochemical and structural insights into intramembrane metalloprotease mechanisms. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 2873-2885.	1.4	52
21	BofA protein inhibits intramembrane proteolysis of pro- σ^K in an intercompartmental signaling pathway during Bacillus subtilis sporulation. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 6385-6390.	3.3	48
22	Serine proteases from two cell types target different components of a complex that governs regulated intramembrane proteolysis of pro- σ^K during Bacillus subtilis development. Molecular Microbiology, 2005, 58, 835-846.	1.2	43
23	Combinatorial regulation of genes essential for Myxococcus xanthus development involves a response regulator and a LysR-type regulator. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 7969-7974.	3.3	42
24	A combination of unusual transcription factors binds cooperatively to control Myxococcus xanthus developmental gene expression. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 1965-1970.	3.3	42
25	Combinatorial Regulation by a Novel Arrangement of FruA and MrpC2 Transcription Factors during Myxococcus xanthus Development. Journal of Bacteriology, 2009, 191, 2753-2763.	1.0	39
26	Transcription factor MrpC binds to promoter regions of hundreds of developmentally-regulated genes in Myxococcus xanthus. BMC Genomics, 2014, 15, 1123.	1.2	35
27	Forespore Signaling Is Necessary for Pro- σ^K Processing during Bacillus subtilis Sporulation Despite the Loss of SpoIVFA upon Translational Arrest. Journal of Bacteriology, 2002, 184, 5393-5401.	1.0	33
28	σ^K Can Negatively Regulate sigE Expression by Two Different Mechanisms during Sporulation of Bacillus subtilis. Journal of Bacteriology, 1999, 181, 4081-4088.	1.0	33
29	Negative Regulation by the Bacillus subtilis GerE Protein. Journal of Biological Chemistry, 1999, 274, 8322-8327.	1.6	31
30	Intramembrane proteolytic cleavage of a membrane-tethered transcription factor by a metalloprotease depends on ATP. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 16174-16179.	3.3	31
31	Rescue of Social Motility Lost during Evolution of Myxococcus xanthus in an Asocial Environment. Journal of Bacteriology, 2002, 184, 2719-2727.	1.0	30
32	Combinatorial Regulation of σ^{fmgD} by MrpC2 and FruA during Myxococcus xanthus Development. Journal of Bacteriology, 2011, 193, 1681-1689.	1.0	30
33	Fate of the SpoIIID switch protein during Bacillus subtilis sporulation depends on the mother-cell sigma factor, σ^K . Journal of Molecular Biology, 1992, 228, 840-849.	2.0	29
34	Combined Action of Two Transcription Factors Regulates Genes Encoding Spore Coat Proteins of Bacillus subtilis. Journal of Biological Chemistry, 2000, 275, 13849-13855.	1.6	29
35	Combinatorial Regulation by MrpC2 and FruA Involves Three Sites in the σ^{fmgE} Promoter Region during Myxococcus xanthus Development. Journal of Bacteriology, 2011, 193, 2756-2766.	1.0	29
36	σ^{devL} Is an Evolutionarily Young Negative Regulator of Myxococcus xanthus Development. Journal of Bacteriology, 2015, 197, 1249-1262.	1.0	28

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37	Identification of the $\hat{\text{C}}4400$ Regulatory Region, a Developmental Promoter of <i>Myxococcus xanthus</i> . <i>Journal of Bacteriology</i> , 1998, 180, 1995-2004.	1.0	26
38	Regulation of the <i>Myxococcus xanthus</i> C-Signal-Dependent $\hat{\text{C}}4400$ Promoter by the Essential Developmental Protein FruA. <i>Journal of Bacteriology</i> , 2006, 188, 5167-5176.	1.0	23
39	Evidence That the <i>Bacillus subtilis</i> SpoIIIGA Protein Is a Novel Type of Signal-transducing Aspartic Protease. <i>Journal of Biological Chemistry</i> , 2008, 283, 15287-15299.	1.6	23
40	Combinatorial Regulation of the <i>dev</i> Operon by MrpC2 and FruA during <i>Myxococcus xanthus</i> Development. <i>Journal of Bacteriology</i> , 2015, 197, 240-251.	1.0	22
41	Nutrient-Regulated Proteolysis of MrpC Halts Expression of Genes Important for Commitment to Sporulation during <i>Myxococcus xanthus</i> Development. <i>Journal of Bacteriology</i> , 2014, 196, 2736-2747.	1.0	21
42	Eukaryotic-like signaling and gene regulation in a prokaryote that undergoes multicellular development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 2681-2682.	3.3	20
43	Identification of the $\hat{\text{C}}4499$ Regulatory Region Controlling Developmental Expression of a <i>Myxococcus xanthus</i> Cytochrome P-450 System. <i>Journal of Bacteriology</i> , 1999, 181, 5467-5475.	1.0	20
44	In vitro transcription of <i>Myxococcus xanthus</i> genes with RNA polymerase containing σ^A , the major sigma factor in growing cells. <i>Molecular Microbiology</i> , 1997, 25, 463-472.	1.2	19
45	cis Elements Necessary for Developmental Expression of a <i>Myxococcus xanthus</i> Gene That Depends on C Signaling. <i>Journal of Bacteriology</i> , 2003, 185, 1405-1414.	1.0	19
46	Substrate Requirements for Regulated Intramembrane Proteolysis of <i>Bacillus subtilis</i> Pro- σ^K . <i>Journal of Bacteriology</i> , 2005, 187, 961-971.	1.0	19
47	Identification of the $\hat{\text{C}}4514$ Regulatory Region, a Developmental Promoter of <i>Myxococcus xanthus</i> That Is Transcribed In Vitro by the Major Vegetative RNA Polymerase. <i>Journal of Bacteriology</i> , 2002, 184, 3348-3359.	1.0	16
48	Prokaryotic Development: Emerging Insights. <i>Journal of Bacteriology</i> , 2003, 185, 1128-1146.	1.0	16
49	Residues in Conserved Loops of Intramembrane Metalloprotease SpoIVFB Interact with Residues near the Cleavage Site in Pro- σ^K . <i>Journal of Bacteriology</i> , 2013, 195, 4936-4946.	1.0	16
50	The <i>dev</i> Operon Regulates the Timing of Sporulation during <i>Myxococcus xanthus</i> Development. <i>Journal of Bacteriology</i> , 2017, 199, .	1.0	16
51	Mutational Analysis of the <i>Myxococcus xanthus</i> $\hat{\text{C}}4400$ Promoter Region Provides Insight into Developmental Gene Regulation by C Signaling. <i>Journal of Bacteriology</i> , 2004, 186, 661-671.	1.0	15
52	Interaction of intramembrane metalloprotease SpoIVFB with substrate Pro- σ^K . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E10677-E10686.	3.3	15
53	Mutational Analysis of the <i>Myxococcus xanthus</i> $\hat{\text{C}}4499$ Promoter Region Reveals Shared and Unique Properties in Comparison with Other C-Signal-Dependent Promoters. <i>Journal of Bacteriology</i> , 2004, 186, 3766-3776.	1.0	14
54	Role of σ^D in Regulating Genes and Signals during <i>Myxococcus xanthus</i> Development. <i>Journal of Bacteriology</i> , 2006, 188, 3246-3256.	1.0	13

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55	Features of Pro-İf ^K Important for Cleavage by SpoIVFB, an Intramembrane Metalloprotease. <i>Journal of Bacteriology</i> , 2013, 195, 2793-2806.	1.0	13
56	<i>Bacillus subtilis</i> Intramembrane Protease RasP Activity in <i>Escherichia coli</i> and <i>In Vitro</i> . <i>Journal of Bacteriology</i> , 2017, 199, .	1.0	12
57	One Perturbation of the Mother Cell Gene Regulatory Network Suppresses the Effects of Another during Sporulation of <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2007, 189, 8467-8473.	1.0	11
58	Mutational Analysis of the fruA Promoter Region Demonstrates that C-Box and 5-Base-Pair Elements Are Important for Expression of an Essential Developmental Gene of <i>Myxococcus xanthus</i> . <i>Journal of Bacteriology</i> , 2004, 186, 5961-5967.	1.0	10
59	Mutational Analysis of the <i>Myxococcus xanthus</i> Î©4406 Promoter Region Reveals an Upstream Negative Regulatory Element That Mediates C-Signal Dependence. <i>Journal of Bacteriology</i> , 2006, 188, 515-524.	1.0	10
60	Substrate specificity of SpoIIIGA, a signal-transducing aspartic protease in Bacilli. <i>Journal of Biochemistry</i> , 2011, 149, 665-671.	0.9	9
61	Identification of the Î©4406 Regulatory Region, a Developmental Promoter of <i>Myxococcus xanthus</i> , and a DNA Segment Responsible for Chromosomal Position-Dependent Inhibition of Gene Expression. <i>Journal of Bacteriology</i> , 2005, 187, 4149-4162.	1.0	8
62	Structure of Bacterial Transcription Factor SpoIIID and Evidence for a Novel Mode of DNA Binding. <i>Journal of Bacteriology</i> , 2014, 196, 2131-2142.	1.0	7
63	Ultrasensitive Response of Developing <i>Myxococcus xanthus</i> to the Addition of Nutrient Medium Correlates with the Level of MrpC. <i>Journal of Bacteriology</i> , 2018, 200, .	1.0	7
64	Systematic analysis of the <i>Myxococcus xanthus</i> developmental gene regulatory network supports posttranslational regulation of FruA by C signaling. <i>Molecular Microbiology</i> , 2019, 111, 1732-1752.	1.2	7
65	Cell density, alignment, and orientation correlate with C-signal dependent gene expression during <i>Myxococcus xanthus</i> development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	7
66	Maintaining the Transcription Factor SpoIIID Level Late during Sporulation Causes Spore Defects in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2007, 189, 7302-7309.	1.0	6
67	Two Regions of <i>Bacillus subtilis</i> Transcription Factor SpoIIID Allow a Monomer To Bind DNA. <i>Journal of Bacteriology</i> , 2010, 192, 1596-1606.	1.0	6
68	Complex Formed between Intramembrane Metalloprotease SpoIVFB and Its Substrate, Pro-İfK. <i>Journal of Biological Chemistry</i> , 2016, 291, 10347-10362.	1.6	6
69	Transcriptional Regulatory Mechanisms during <i>Myxococcus xanthus</i> Development. , 0, , 149-168.		6
70	Conserved Proline Residues of <i>Bacillus subtilis</i> Intramembrane Metalloprotease SpoIVFB Are Important for Substrate Interaction and Cleavage. <i>Journal of Bacteriology</i> , 2022, 204, JB0038621.	1.0	6
71	Inhibitory proteins block substrate access by occupying the active site cleft of <i>Bacillus subtilis</i> intramembrane protease SpoIVFB. <i>ELife</i> , 2022, 11, .	2.8	5
72	Bacterial Development in the Fast Lane. <i>Journal of Bacteriology</i> , 2008, 190, 4373-4376.	1.0	4

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73	Channels modestly impact compartment-specific ATP levels during <i>Bacillus subtilis</i> sporulation and a rise in the mother cell ATP level is not necessary for Pro- σ^H cleavage. <i>Molecular Microbiology</i> , 2020, 114, 563-581.	1.2	3
74	Who's the Boss? One-Way Conversations between Bacteria. <i>Developmental Cell</i> , 2009, 17, 155-156.	3.1	1
75	<i>Bacillus subtilis</i> Sporulation and Other Multicellular Behaviors. , 0, , 363-383.		1
76	Bacterial Development: Evidence for Very Short Umbilical Cords. <i>Current Biology</i> , 2009, 19, R452-R453.	1.8	0