

Lee Kroos

List of Publications by Year in descending order

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76
papers

3,408
citations

185998

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161609

54
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78
all docs

78
docs citations

78
times ranked

1690
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Conserved Proline Residues of Bacillus subtilis Intramembrane Metalloprotease SpoIVFB Are Important for Substrate Interaction and Cleavage. Journal of Bacteriology, 2022, 204, JB0038621. | 1.0 | 6 |
| 2 | Inhibitory proteins block substrate access by occupying the active site cleft of Bacillus subtilis intramembrane protease SpoIVFB. ELife, 2022, 11, . | 2.8 | 5 |
| 3 | Cell density, alignment, and orientation correlate with C-signalâ€‘dependent gene expression during <i>Myxococcus xanthus</i> development. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 3.3 | 7 |
| 4 | Channels modestly impact compartmentâ€‘specific ATP levels during Bacillus subtilis sporulation and a rise in the mother cell ATP level is not necessary for Pro- λ K cleavage. Molecular Microbiology, 2020, 114, 563-581. | 1.2 | 3 |
| 5 | Systematic analysis of the <i>Myxococcus xanthus</i> developmental gene regulatory network supports posttranslational regulation of FruA by Câ€‘signaling. Molecular Microbiology, 2019, 111, 1732-1752. | 1.2 | 7 |
| 6 | Ultrasensitive Response of Developing Myxococcus xanthus to the Addition of Nutrient Medium Correlates with the Level of MrpC. Journal of Bacteriology, 2018, 200, . | 1.0 | 7 |
| 7 | The <i>dev</i> Operon Regulates the Timing of Sporulation during Myxococcus xanthus Development. Journal of Bacteriology, 2017, 199, . | 1.0 | 16 |
| 8 | Highly Signal-Responsive Gene Regulatory Network Governing Myxococcus Development. Trends in Genetics, 2017, 33, 3-15. | 2.9 | 58 |
| 9 | Interaction of intramembrane metalloprotease SpoIVFB with substrate Pro- λ K. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E10677-E10686. | 3.3 | 15 |
| 10 | Bacillus subtilis Intramembrane Protease RasP Activity in Escherichia coli and <i>In Vitro</i> . Journal of Bacteriology, 2017, 199, . | 1.0 | 12 |
| 11 | Complex Formed between Intramembrane Metalloprotease SpoIVFB and Its Substrate, Pro- λ K. Journal of Biological Chemistry, 2016, 291, 10347-10362. | 1.6 | 6 |
| 12 | Combinatorial Regulation of the <i>dev</i> Operon by MrpC2 and FruA during Myxococcus xanthus Development. Journal of Bacteriology, 2015, 197, 240-251. | 1.0 | 22 |
| 13 | <i>dev</i> Is an Evolutionarily Young Negative Regulator of Myxococcus xanthus Development. Journal of Bacteriology, 2015, 197, 1249-1262. | 1.0 | 28 |
| 14 | Structure of Bacterial Transcription Factor SpoIIID and Evidence for a Novel Mode of DNA Binding. Journal of Bacteriology, 2014, 196, 2131-2142. | 1.0 | 7 |
| 15 | Nutrient-Regulated Proteolysis of MrpC Halts Expression of Genes Important for Commitment to Sporulation during Myxococcus xanthus Development. Journal of Bacteriology, 2014, 196, 2736-2747. | 1.0 | 21 |
| 16 | Transcription factor MrpC binds to promoter regions of hundreds of developmentally-regulated genes in Myxococcus xanthus. BMC Genomics, 2014, 15, 1123. | 1.2 | 35 |
| 17 | Regulated proteolysis in bacterial development. FEMS Microbiology Reviews, 2014, 38, 493-522. | 3.9 | 60 |
| 18 | Biochemical and structural insights into intramembrane metalloprotease mechanisms. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 2873-2885. | 1.4 | 52 |

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|----|---|-----|-----------|
| 19 | Features of Pro- σ^K Important for Cleavage by SpoIVFB, an Intramembrane Metalloprotease. <i>Journal of Bacteriology</i> , 2013, 195, 2793-2806. | 1.0 | 13 |
| 20 | 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 |
| 21 | Combinatorial Regulation of σ^{fmgD} by MrpC2 and FruA during <i>Myxococcus xanthus</i> Development. <i>Journal of Bacteriology</i> , 2011, 193, 1681-1689. | 1.0 | 30 |
| 22 | Combinatorial Regulation by MrpC2 and FruA Involves Three Sites in the σ^{fmgE} Promoter Region during <i>Myxococcus xanthus</i> Development. <i>Journal of Bacteriology</i> , 2011, 193, 2756-2766. | 1.0 | 29 |
| 23 | Substrate specificity of SpoIIIGA, a signal-transducing aspartic protease in Bacilli. <i>Journal of Biochemistry</i> , 2011, 149, 665-671. | 0.9 | 9 |
| 24 | Myxobacteria, Polarity, and Multicellular Morphogenesis. <i>Cold Spring Harbor Perspectives in Biology</i> , 2010, 2, a000380-a000380. | 2.3 | 79 |
| 25 | 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 |
| 26 | Combinatorial Regulation by a Novel Arrangement of FruA and MrpC2 Transcription Factors during <i>Myxococcus xanthus</i> Development. <i>Journal of Bacteriology</i> , 2009, 191, 2753-2763. | 1.0 | 39 |
| 27 | A combination of unusual transcription factors binds cooperatively to control <i>Myxococcus xanthus</i> developmental gene expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 1965-1970. | 3.3 | 42 |
| 28 | Sporulation and Enterotoxin (CPE) Synthesis Are Controlled by the Sporulation-Specific Sigma Factors SigE and SigK in <i>Clostridium perfringens</i> . <i>Journal of Bacteriology</i> , 2009, 191, 2728-2742. | 1.0 | 98 |
| 29 | Intramembrane proteolytic cleavage of a membrane-tethered transcription factor by a metalloprotease depends on ATP. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 16174-16179. | 3.3 | 31 |
| 30 | Bacterial Development: Evidence for Very Short Umbilical Cords. <i>Current Biology</i> , 2009, 19, R452-R453. | 1.8 | 0 |
| 31 | Who's the Boss? One-Way Conversations between Bacteria. <i>Developmental Cell</i> , 2009, 17, 155-156. | 3.1 | 1 |
| 32 | 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 |
| 33 | Bacterial Development in the Fast Lane. <i>Journal of Bacteriology</i> , 2008, 190, 4373-4376. | 1.0 | 4 |
| 34 | 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 |
| 35 | Combinatorial regulation of genes essential for <i>Myxococcus xanthus</i> development involves a response regulator and a LysR-type regulator. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 7969-7974. | 3.3 | 42 |
| 36 | Regulation of dev, 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 |

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|----|--|-----|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | Mutational Analysis of the <i>Myxococcus xanthus</i> $\hat{\text{C}}4406$ 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 |
| 40 | Role of $\hat{\text{I}}f D$ in Regulating Genes and Signals during <i>Myxococcus xanthus</i> Development. <i>Journal of Bacteriology</i> , 2006, 188, 3246-3256. | 1.0 | 13 |
| 41 | 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 |
| 42 | Serine proteases from two cell types target different components of a complex that governs regulated intramembrane proteolysis of pro- $\hat{\text{I}}f K$ during <i>Bacillus subtilis</i> development. <i>Molecular Microbiology</i> , 2005, 58, 835-846. | 1.2 | 43 |
| 43 | 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 |
| 44 | Substrate Requirements for Regulated Intramembrane Proteolysis of <i>Bacillus subtilis</i> Pro- $\hat{\text{I}}f K$. <i>Journal of Bacteriology</i> , 2005, 187, 961-971. | 1.0 | 19 |
| 45 | Identification of the $\hat{\text{C}}4406$ 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 |
| 46 | 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 |
| 47 | 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 |
| 48 | 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 |
| 49 | BofA protein inhibits intramembrane proteolysis of pro- $\hat{\text{A}}K$ in an intercompartmental signaling pathway during <i>Bacillus subtilis</i> sporulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 6385-6390. | 3.3 | 48 |
| 50 | 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 |
| 51 | Prokaryotic Development: Emerging Insights. <i>Journal of Bacteriology</i> , 2003, 185, 1128-1146. | 1.0 | 16 |
| 52 | 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 |
| 53 | Rescue of Social Motility Lost during Evolution of <i>Myxococcus xanthus</i> in an Asocial Environment. <i>Journal of Bacteriology</i> , 2002, 184, 2719-2727. | 1.0 | 30 |
| 54 | Forespore Signaling Is Necessary for Pro- $\hat{\text{I}}f K$ Processing during <i>Bacillus subtilis</i> Sporulation Despite the Loss of SpoIVFA upon Translational Arrest. <i>Journal of Bacteriology</i> , 2002, 184, 5393-5401. | 1.0 | 33 |

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|----|---|------|-----------|
| 55 | Identification of the $\hat{\text{I}}\text{C}4514$ 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 |
| 56 | Developmental cheating in the social bacterium <i>Myxococcus xanthus</i> . <i>Nature</i> , 2000, 404, 598-601. | 13.7 | 301 |
| 57 | Combined Action of Two Transcription Factors Regulates Genes Encoding Spore Coat Proteins of <i>Bacillus subtilis</i> . <i>Journal of Biological Chemistry</i> , 2000, 275, 13849-13855. | 1.6 | 29 |
| 58 | Evidence that SpoIVFB 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 |
| 59 | Regulation of $\hat{\text{I}}f$ factor activity during <i>Bacillus subtilis</i> development. <i>Current Opinion in Microbiology</i> , 2000, 3, 553-560. | 2.3 | 63 |
| 60 | Negative Regulation by the <i>Bacillus subtilis</i> GerE Protein. <i>Journal of Biological Chemistry</i> , 1999, 274, 8322-8327. | 1.6 | 31 |
| 61 | Control of sigma factor activity during <i>Bacillus subtilis</i> sporulation. <i>Molecular Microbiology</i> , 1999, 31, 1285-1294. | 1.2 | 122 |
| 62 | $\hat{\text{I}}, K$ Can Negatively Regulate sigE Expression by Two Different Mechanisms during Sporulation of <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 1999, 181, 4081-4088. | 1.0 | 33 |
| 63 | Identification of the $\hat{\text{I}}\text{C}4499$ 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 |
| 64 | Identification of the $\hat{\text{I}}\text{C}4400$ Regulatory Region, a Developmental Promoter of <i>Myxococcus xanthus</i> . <i>Journal of Bacteriology</i> , 1998, 180, 1995-2004. | 1.0 | 26 |
| 65 | The Prosequence of Pro- $\hat{\text{I}}, K$ Promotes Membrane Association and Inhibits RNA Polymerase Core Binding. <i>Journal of Bacteriology</i> , 1998, 180, 2434-2441. | 1.0 | 65 |
| 66 | In vitro transcription of <i>Myxococcus xanthus</i> genes with RNA polymerase containing $\hat{\text{I}}f A$, the major sigma factor in growing cells. <i>Molecular Microbiology</i> , 1997, 25, 463-472. | 1.2 | 19 |
| 67 | 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 |
| 68 | Sporulation Regulatory Protein SpoIIID 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 |
| 69 | Fate of the SpoIIID switch protein during <i>Bacillus subtilis</i> sporulation depends on the mother-cell sigma factor, $\hat{\text{I}}fK$. <i>Journal of Molecular Biology</i> , 1992, 228, 840-849. | 2.0 | 29 |
| 70 | Sporulation regulatory protein gerE 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 |
| 71 | 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 |
| 72 | 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 |

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|----|---|-----|-----------|
| 73 | A global analysis of developmentally regulated genes in <i>Myxococcus xanthus</i> . <i>Developmental Biology</i> , 1986, 117, 252-266. | 0.9 | 321 |
| 74 | Intercellular signaling is required for developmental gene expression in <i>Myxococcus xanthus</i> . <i>Developmental Biology</i> , 1986, 117, 267-276. | 0.9 | 167 |
| 75 | <i>Bacillus subtilis</i> Sporulation and Other Multicellular Behaviors. , 0, , 363-383. | | 1 |
| 76 | Transcriptional Regulatory Mechanisms during <i>Myxococcus xanthus</i> Development. , 0, , 149-168. | | 6 |