

Alan D Grossman

List of Publications by Year in descending order

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102
papers

10,071
citations

31902

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92
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114
all docs

114
docs citations

114
times ranked

6037
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrative and Conjugative Elements (ICEs): What They Do and How They Work. Annual Review of Genetics, 2015, 49, 577-601.	3.2	458
2	Localization of Bacterial DNA Polymerase: Evidence for a Factory Model of Replication. , 1998, 282, 1516-1519.		452
3	Biochemical and genetic characterization of a competence pheromone from <i>B. subtilis</i> . Cell, 1994, 77, 207-216.	13.5	435
4	Identification and Characterization of a Bacterial Chromosome Partitioning Site. Cell, 1998, 92, 675-685.	13.5	391
5	Genetic Networks Controlling the Initiation of Sporulation and the Development of Genetic Competence in <i>Bacillus subtilis</i> . Annual Review of Genetics, 1995, 29, 477-508.	3.2	381
6	Bipolar Localization of the Replication Origin Regions of Chromosomes in Vegetative and Sporulating Cells of <i>B. subtilis</i> . Cell, 1997, 88, 667-674.	13.5	357
7	Genome-Wide Analysis of the Stationary-Phase Sigma Factor (Sigma-H) Regulon of <i>Bacillus subtilis</i> . Journal of Bacteriology, 2002, 184, 4881-4890.	1.0	292
8	Nutritional Control of Elongation of DNA Replication by (p)ppGpp. Cell, 2007, 128, 865-875.	13.5	267
9	Regulation of a <i>Bacillus subtilis</i> mobile genetic element by intercellular signaling and the global DNA damage response. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12554-12559.	3.3	237
10	An Exported Peptide Functions Intracellularly to Contribute to Cell Density Signaling in <i>B. subtilis</i> . Cell, 1997, 89, 917-925.	13.5	230
11	Movement of Replicating DNA through a Stationary Replisome. Molecular Cell, 2000, 6, 1321-1330.	4.5	213
12	Replication Initiation Proteins Regulate a Developmental Checkpoint in <i>Bacillus subtilis</i> . Cell, 2001, 104, 269-279.	13.5	193
13	Replication-transcription conflicts in bacteria. Nature Reviews Microbiology, 2012, 10, 449-458.	13.6	190
14	Chromosome arrangement within a bacterium. Current Biology, 1998, 8, 1102-1109.	1.8	186
15	Identification of AbrB-regulated genes involved in biofilm formation by <i>Bacillus subtilis</i> . Molecular Microbiology, 2004, 52, 847-860.	1.2	177
16	Genetic Composition of the <i>Bacillus subtilis</i> SOS System. Journal of Bacteriology, 2005, 187, 7655-7666.	1.0	172
17	Who's competent and when: regulation of natural genetic competence in bacteria. Trends in Genetics, 1996, 12, 150-155.	2.9	169
18	Whole-genome analysis of the chromosome partitioning and sporulation protein Spo0J (ParB) reveals spreading and origin-distal sites on the <i>Bacillus subtilis</i> chromosome. Molecular Microbiology, 2007, 64, 703-718.	1.2	167

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19	Control of Development by Altered Localization of a Transcription Factor in <i>B. subtilis</i> . <i>Molecular Cell</i> , 1999, 4, 665-672.	4.5	165
20	Enabling genetic analysis of diverse bacteria with Mobile-CRISPRi. <i>Nature Microbiology</i> , 2019, 4, 244-250.	5.9	163
21	Co-directional replication and transcription conflicts lead to replication restart. <i>Nature</i> , 2011, 470, 554-557.	13.7	162
22	FapR, a Bacterial Transcription Factor Involved in Global Regulation of Membrane Lipid Biosynthesis. <i>Developmental Cell</i> , 2003, 4, 663-672.	3.1	161
23	The ins and outs of peptide signaling. <i>Trends in Microbiology</i> , 1998, 6, 288-294.	3.5	160
24	Conservation of genes and processes controlled by the quorum response in bacteria: characterization of genes controlled by the quorum-sensing transcription factor ComA in <i>Bacillus subtilis</i> . <i>Molecular Microbiology</i> , 2005, 57, 1159-1174.	1.2	146
25	The chromosome partitioning proteins Soj (ParA) and Spo0J (ParB) contribute to accurate chromosome partitioning, separation of replicated sister origins, and regulation of replication initiation in <i>Bacillus subtilis</i> . <i>Molecular Microbiology</i> , 2006, 60, 853-869.	1.2	146
26	Engineered integrative and conjugative elements for efficient and inducible DNA transfer to undomesticated bacteria. <i>Nature Microbiology</i> , 2018, 3, 1043-1053.	5.9	137
27	The extrusion-capture model for chromosome partitioning in bacteria. <i>Genes and Development</i> , 2001, 15, 2031-2041.	2.7	135
28	Characterization of comQ and comX, Two Genes Required for Production of ComX Pheromone in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2002, 184, 410-419.	1.0	122
29	Structure and Mechanism of Action of Sda, an Inhibitor of the Histidine Kinases that Regulate Initiation of Sporulation in <i>Bacillus subtilis</i> . <i>Molecular Cell</i> , 2004, 13, 689-701.	4.5	110
30	An Autoregulatory Circuit Affecting Peptide Signaling in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 1999, 181, 5193-5200.	1.0	108
31	In Vivo Effects of Sporulation Kinases on Mutant Spo0A Proteins in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2001, 183, 6573-6578.	1.0	107
32	Autonomous plasmid-like replication of a conjugative transposon. <i>Molecular Microbiology</i> , 2010, 75, 268-279.	1.2	103
33	A conserved anti-repressor controls horizontal gene transfer by proteolysis. <i>Molecular Microbiology</i> , 2008, 70, 570-582.	1.2	101
34	Genome-wide coorientation of replication and transcription reduces adverse effects on replication in <i>Bacillus subtilis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 5608-5613.	3.3	99
35	A transcriptional response to replication status mediated by the conserved bacterial replication protein DnaA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 12932-12937.	3.3	96
36	Modulation of the ComA-Dependent Quorum Response in <i>Bacillus subtilis</i> by Multiple Rap Proteins and Phr Peptides. <i>Journal of Bacteriology</i> , 2006, 188, 5273-5285.	1.0	95

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37	Effects of the Chromosome Partitioning Protein Spo0J (ParB) on oriC Positioning and Replication Initiation in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2003, 185, 1326-1337.	1.0	93
38	Characterization of the Global Transcriptional Responses to Different Types of DNA Damage and Disruption of Replication in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2006, 188, 5595-5605.	1.0	93
39	Identification and characterization of the immunity repressor (ImmR) that controls the mobile genetic element ICEBs1 of <i>Bacillus subtilis</i> . <i>Molecular Microbiology</i> , 2007, 64, 1515-1528.	1.2	91
40	The Transcriptional Regulator Rok Binds A+T-Rich DNA and Is Involved in Repression of a Mobile Genetic Element in <i>Bacillus subtilis</i> . <i>PLoS Genetics</i> , 2010, 6, e1001207.	1.5	90
41	Inducible protein degradation in <i>Bacillus subtilis</i> using heterologous peptide tags and adaptor proteins to target substrates to the protease ClpXP. <i>Molecular Microbiology</i> , 2008, 70, 1012-1025.	1.2	86
42	Control of DNA replication initiation by recruitment of an essential initiation protein to the membrane of <i>Bacillus subtilis</i> . <i>Molecular Microbiology</i> , 2004, 52, 1757-1767.	1.2	80
43	Identification of the Origin of Transfer (oriT) and DNA Relaxase Required for Conjugation of the Integrative and Conjugative Element ICE Bs1 of <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2007, 189, 7254-7261.	1.0	79
44	The <i>Bacillus subtilis</i> Conjugative Transposon ICE Bs1 Mobilizes Plasmids Lacking Dedicated Mobilization Functions. <i>Journal of Bacteriology</i> , 2012, 194, 3165-3172.	1.0	79
45	Spatial and temporal organization of the <i>Bacillus subtilis</i> replication cycle. <i>Molecular Microbiology</i> , 2006, 62, 57-71.	1.2	78
46	Control of Sporulation Gene Expression in <i>Bacillus subtilis</i> by the Chromosome Partitioning Proteins Soj (ParA) and Spo0J (ParB). <i>Journal of Bacteriology</i> , 2000, 182, 3446-3451.	1.0	77
47	Subcellular localization of the <i>Bacillus subtilis</i> structural maintenance of chromosomes (SMC) protein. <i>Molecular Microbiology</i> , 2002, 46, 997-1009.	1.2	74
48	Identification and characterization of <i>int</i> (integrase), <i>xis</i> (excisionase) and chromosomal attachment sites of the integrative and conjugative element ICE Bs1 of <i>Bacillus subtilis</i> . <i>Molecular Microbiology</i> , 2007, 66, 1356-1369.	1.2	72
49	Efficient Gene Transfer in Bacterial Cell Chains. <i>MBio</i> , 2011, 2, .	1.8	70
50	Comparison of Responses to Double-Strand Breaks between <i>Escherichia coli</i> and <i>Bacillus subtilis</i> Reveals Different Requirements for SOS Induction. <i>Journal of Bacteriology</i> , 2009, 191, 1152-1161.	1.0	65
51	Synthetic Lethal Phenotypes Caused by Mutations Affecting Chromosome Partitioning in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 1999, 181, 5860-5864.	1.0	65
52	Control of a Family of Phosphatase Regulatory Genes (<i>phr</i>) by the Alternate Sigma Factor Sigma-H of <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2001, 183, 4905-4909.	1.0	63
53	Ordered association of helicase loader proteins with the <i>Bacillus subtilis</i> origin of replication <i>in vivo</i> . <i>Molecular Microbiology</i> , 2010, 75, 452-461.	1.2	63
54	Sequence and properties of <i>mecA</i> , a negative regulator of genetic competence in <i>Bacillus subtilis</i> . <i>Molecular Microbiology</i> , 1993, 9, 365-373.	1.2	59

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55	Structural Maintenance of Chromosomes Protein of <i>Bacillus subtilis</i> Affects Supercoiling In Vivo. <i>Journal of Bacteriology</i> , 2002, 184, 5317-5322.	1.0	59
56	Replication is required for the RecA localization response to DNA damage in <i>Bacillus subtilis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 1360-1365.	3.3	55
57	Identification of host genes that affect acquisition of an integrative and conjugative element in <i>Bacillus subtilis</i> . <i>Molecular Microbiology</i> , 2014, 93, 1284-1301.	1.2	55
58	Altering the level and regulation of the major sigma subunit of RNA polymerase affects gene expression and development in <i>Bacillus subtilis</i> . <i>Molecular Microbiology</i> , 1996, 20, 201-212.	1.2	53
59	Regulation of Horizontal Gene Transfer in <i>Bacillus subtilis</i> by Activation of a Conserved Site-Specific Protease. <i>Journal of Bacteriology</i> , 2011, 193, 22-29.	1.0	52
60	Clp and Lon Proteases Occupy Distinct Subcellular Positions in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2008, 190, 6758-6768.	1.0	48
61	Selective Pressures to Maintain Attachment Site Specificity of Integrative and Conjugative Elements. <i>PLoS Genetics</i> , 2013, 9, e1003623.	1.5	46
62	Complete Genome Sequences of <i>Bacillus subtilis</i> subsp. <i>subtilis</i> Laboratory Strains JH642 (AG174) and AG1839. <i>Genome Announcements</i> , 2014, 2, .	0.8	45
63	A Conserved Helicase Processivity Factor Is Needed for Conjugation and Replication of an Integrative and Conjugative Element. <i>PLoS Genetics</i> , 2013, 9, e1003198.	1.5	44
64	Autonomous Replication of the Conjugative Transposon Tn 916. <i>Journal of Bacteriology</i> , 2016, 198, 3355-3366.	1.0	44
65	YabA of <i>Bacillus subtilis</i> controls DnaA-mediated replication initiation but not the transcriptional response to replication stress. <i>Molecular Microbiology</i> , 2009, 74, 454-466.	1.2	43
66	Subcellular positioning of the origin region of the <i>Bacillus subtilis</i> chromosome is independent of sequences within oriC, the site of replication initiation, and the replication initiator DnaA. <i>Molecular Microbiology</i> , 2007, 63, 150-165.	1.2	42
67	Polar Positioning of a Conjugation Protein from the Integrative and Conjugative Element ICEBs1 of <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2010, 192, 38-45.	1.0	42
68	The Sporulation Protein SirA Inhibits the Binding of DnaA to the Origin of Replication by Contacting a Patch of Clustered Amino Acids. <i>Journal of Bacteriology</i> , 2011, 193, 1302-1307.	1.0	42
69	Primosomal Proteins DnaD and DnaB Are Recruited to Chromosomal Regions Bound by DnaA in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2011, 193, 640-648.	1.0	42
70	The Bifunctional Cell Wall Hydrolase CwlT Is Needed for Conjugation of the Integrative and Conjugative Element ICEBs1 in <i>Bacillus subtilis</i> and <i>B. anthracis</i> . <i>Journal of Bacteriology</i> , 2014, 196, 1588-1596.	1.0	40
71	In Vitro Whole Genome DNA Binding Analysis of the Bacterial Replication Initiator and Transcription Factor DnaA. <i>PLoS Genetics</i> , 2015, 11, e1005258.	1.5	35
72	Cell cycle and sporulation in <i>Bacillus subtilis</i> . <i>Current Opinion in Microbiology</i> , 1998, 1, 630-635.	2.3	33

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73	Control of the replication initiator DnaA by an anti-cooperativity factor. <i>Molecular Microbiology</i> , 2011, 82, 434-446.	1.2	33
74	The Primosomal Protein DnaD Inhibits Cooperative DNA Binding by the Replication Initiator DnaA in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2012, 194, 5110-5117.	1.0	29
75	Critical Components of the Conjugation Machinery of the Integrative and Conjugative Element ICE <i>bs1</i> of <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2015, 197, 2558-2567.	1.0	29
76	Dynamic Association of the Replication Initiator and Transcription Factor DnaA with the <i>Bacillus subtilis</i> Chromosome during Replication Stress. <i>Journal of Bacteriology</i> , 2009, 191, 486-493.	1.0	28
77	Genetic networks controlled by the bacterial replication initiator and transcription factor DnaA in <i>Bacillus subtilis</i> . <i>Molecular Microbiology</i> , 2017, 106, 109-128.	1.2	28
78	A mobile genetic element increases bacterial host fitness by manipulating development. <i>ELife</i> , 2021, 10, .	2.8	28
79	Identification of a Single Strand Origin of Replication in the Integrative and Conjugative Element ICEBs1 of <i>Bacillus subtilis</i> . <i>PLoS Genetics</i> , 2015, 11, e1005556.	1.5	27
80	When simple sequence comparison fails: the cryptic case of the shared domains of the bacterial replication initiation proteins DnaB and DnaD. <i>Nucleic Acids Research</i> , 2010, 38, 6930-6942.	6.5	26
81	A Mobile Element in <i>mutS</i> Drives Hypermutation in a Marine <i>Vibrio</i> . <i>MBio</i> , 2017, 8, .	1.8	26
82	Isolation and Characterization of Mutants of the <i>Bacillus subtilis</i> Oligopeptide Permease with Altered Specificity of Oligopeptide Transport. <i>Journal of Bacteriology</i> , 2003, 185, 6425-6433.	1.0	24
83	Analysis of non-polar deletion mutations in the genes of the <i>spo0K</i> (<i>opp</i>) operon of <i>Bacillus subtilis</i> . <i>FEMS Microbiology Letters</i> , 2006, 153, 63-69.	0.7	24
84	Genetic and biochemical interactions between the bacterial replication initiator DnaA and the nucleoid-associated protein Rok in <i>Bacillus subtilis</i> . <i>Molecular Microbiology</i> , 2017, 103, 798-817.	1.2	24
85	Identification, characterization and benefits of an exclusion system in an integrative and conjugative element of <i>Bacillus subtilis</i> . <i>Molecular Microbiology</i> , 2019, 112, 1066-1082.	1.2	24
86	CcrZ is a pneumococcal spatiotemporal cell cycle regulator that interacts with FtsZ and controls DNA replication by modulating the activity of DnaA. <i>Nature Microbiology</i> , 2021, 6, 1175-1187.	5.9	24
87	Regulation of the Initiation of Endospore Formation in <i>Bacillus subtilis</i> . , 0, , 151-166.		23
88	Interactions between mobile genetic elements: An anti-phage gene in an integrative and conjugative element protects host cells from predation by a temperate bacteriophage. <i>PLoS Genetics</i> , 2022, 18, e1010065.	1.5	21
89	A Degenerate Tripartite DNA-Binding Site Required for Activation of ComA-Dependent Quorum Response Gene Expression in <i>Bacillus subtilis</i> . <i>Journal of Molecular Biology</i> , 2008, 381, 261-275.	2.0	20
90	Multicopy Plasmids Affect Replisome Positioning in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2004, 186, 7084-7090.	1.0	19

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91	Control of Initiation of Sporulation by Replication Initiation Genes in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2000, 182, 2989-2991.	1.0	18
92	SOS Induction in a Subpopulation of Structural Maintenance of Chromosome (Smc) Mutant Cells in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2007, 189, 4359-4366.	1.0	15
93	The Composition of the Cell Envelope Affects Conjugation in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2016, 198, 1241-1249.	1.0	12
94	Chromosome Replication and Segregation. , 0, , 71-86.		12
95	Biology and engineering of integrative and conjugative elements: Construction and analyses of hybrid ICEs reveal element functions that affect species-specific efficiencies. <i>PLoS Genetics</i> , 2022, 18, e1009998.	1.5	11
96	Intragenic and Extragenic Suppressors of Temperature Sensitive Mutations in the Replication Initiation Genes <i>dnaD</i> and <i>dnaB</i> of <i>Bacillus subtilis</i> . <i>PLoS ONE</i> , 2009, 4, e6774.	1.1	10
97	A regulatory switch involving a Clp atpase. <i>BioEssays</i> , 1997, 19, 455-458.	1.2	9
98	Analysis of LexA binding sites and transcriptomics in response to genotoxic stress in <i>Leptospira interrogans</i> . <i>Nucleic Acids Research</i> , 2016, 44, 1179-1191.	6.5	8
99	Complete Genome Sequence of <i>Bacillus subtilis</i> Strain CU1050, Which Is Sensitive to Phage SP1 ² . <i>Genome Announcements</i> , 2016, 4, .	0.8	6
100	Specificity and Selective Advantage of an Exclusion System in the Integrative and Conjugative Element ICE <i>Bs1</i> of <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2021, 203, .	1.0	2
101	Extracellular Peptide Signaling and Quorum Responses in Development, Self-Recognition, and Horizontal Gene Transfer in <i>Bacillus subtilis</i> . , 0, , 13-30.		2
102	A <i>CRISPR</i> interference screen reveals a role for cell wall teichoic acids in conjugation in <i>Bacillus subtilis</i> . <i>Molecular Microbiology</i> , 2022, 117, 1366-1383.	1.2	2