Alan D Grossman

List of Publications by Year
in descending order

102 papers	10,071 citations	31902 53 h-index	42291 92 g-index
114 all docs	114 docs citations	114 times ranked	6037 citing authors

#	Article	IF	Citations
1	Interactions between mobile genetic elements: An anti-phage gene in an integrative and conjugative element protects host cells from predation by a temperate bacteriophage. PLoS Genetics, 2022, 18, e1010065.	1.5	21
2	A <scp>CRISPR</scp> interference screen reveals a role for cell wall teichoic acids in conjugation in <i>Bacillus subtilis</i>. Molecular Microbiology, 2022, 117, 1366-1383.	1.2	2
3	Biology and engineering of integrative and conjugative elements: Construction and analyses of hybrid ICEs reveal element functions that affect species-specific efficiencies. PLoS Genetics, 2022, 18, e1009998.	1.5	11
4	A mobile genetic element increases bacterial host fitness by manipulating development. ELife, 2021, 10, .	2.8	28
5	Specificity and Selective Advantage of an Exclusion System in the Integrative and Conjugative Element ICE <i>Bs1</i> of Bacillus subtilis. Journal of Bacteriology, 2021, 203, .	1.0	2
6	CcrZ is a pneumococcal spatiotemporal cell cycle regulator that interacts with FtsZ and controls DNA replication by modulating the activity of DnaA. Nature Microbiology, 2021, 6, 1175-1187.	5.9	24
7	Identification, characterization and benefits of an exclusion system in an integrative and conjugative element ofBacillus subtilis. Molecular Microbiology, 2019, 112, 1066-1082.	1.2	24
8	Enabling genetic analysis of diverse bacteria with Mobile-CRISPRi. Nature Microbiology, 2019, 4, 244-250.	5.9	163
9	Engineered integrative and conjugative elements for efficient and inducible DNA transfer to undomesticated bacteria. Nature Microbiology, 2018, 3, 1043-1053.	5.9	137
10	A Mobile Element in <i>mutS</i> Drives Hypermutation in a Marine <i>Vibrio</i>. MBio, 2017, 8, .	1.8	26
11	Genetic and biochemical interactions between the bacterial replication initiator DnaA and the nucleoidâ€associated protein Rok in <i>Bacillus subtilis</i>. Molecular Microbiology, 2017, 103, 798-817.	1.2	24
12	Genetic networks controlled by the bacterial replication initiator and transcription factor DnaA in <i>Bacillus subtilis</i>. Molecular Microbiology, 2017, 106, 109-128.	1.2	28
13	Complete Genome Sequence of Bacillus subtilis Strain CU1050, Which Is Sensitive to Phage SPÎ². Genome Announcements, 2016, 4, .	0.8	6
14	Autonomous Replication of the Conjugative Transposon Tn <i>916</i>. Journal of Bacteriology, 2016, 198, 3355-3366.	1.0	44
15	Analysis of LexA binding sites and transcriptomics in response to genotoxic stress in<i>Leptospira interrogans</i>. Nucleic Acids Research, 2016, 44, 1179-1191.	6.5	8
16	The Composition of the Cell Envelope Affects Conjugation in Bacillus subtilis. Journal of Bacteriology, 2016, 198, 1241-1249.	1.0	12
17	Identification of a Single Strand Origin of Replication in the Integrative and Conjugative Element ICEBs1 of Bacillus subtilis. PLoS Genetics, 2015, 11, e1005556.	1.5	27
18	In Vitro Whole Genome DNA Binding Analysis of the Bacterial Replication Initiator and Transcription Factor DnaA. PLoS Genetics, 2015, 11, e1005258.	1.5	35

#	Article	IF	Citations
19	Critical Components of the Conjugation Machinery of the Integrative and Conjugative Element ICE <i>Bs1</i> of Bacillus subtilis. Journal of Bacteriology, 2015, 197, 2558-2567.	1.0	29
20	Integrative and Conjugative Elements (ICEs): What They Do and How They Work. Annual Review of Genetics, 2015, 49, 577-601.	3.2	458
21	Complete Genome Sequences of Bacillus subtilis subsp. <i>subtilis</i> Laboratory Strains JH642 (AG174) and AG1839. Genome Announcements, 2014, 2, .	0.8	45
22	Identification of host genes that affect acquisition of an integrative and conjugative element in <scp><i>B</i></scp><i>acillus subtilis</i>. Molecular Microbiology, 2014, 93, 1284-1301.	1.2	55
23	The Bifunctional Cell Wall Hydrolase CwlT Is Needed for Conjugation of the Integrative and Conjugative Element ICE <i>Bs1</i> in Bacillus subtilis and B. anthracis. Journal of Bacteriology, 2014, 196, 1588-1596.	1.0	40
24	Selective Pressures to Maintain Attachment Site Specificity of Integrative and Conjugative Elements. PLoS Genetics, 2013, 9, e1003623.	1.5	46
25	A Conserved Helicase Processivity Factor Is Needed for Conjugation and Replication of an Integrative and Conjugative Element. PLoS Genetics, 2013, 9, e1003198.	1.5	44
26	The Primosomal Protein DnaD Inhibits Cooperative DNA Binding by the Replication Initiator DnaA in Bacillus subtilis. Journal of Bacteriology, 2012, 194, 5110-5117.	1.0	29
27	The Bacillus subtilis Conjugative Transposon ICE <i>Bs1</i> Mobilizes Plasmids Lacking Dedicated Mobilization Functions. Journal of Bacteriology, 2012, 194, 3165-3172.	1.0	79
28	Replicationâ€"transcription conflicts in bacteria. Nature Reviews Microbiology, 2012, 10, 449-458.	13.6	190
29	Control of the replication initiator DnaA by an anti-cooperativity factor. Molecular Microbiology, 2011, 82, 434-446.	1.2	33
30	Co-directional replicationâ€"transcription conflicts lead to replication restart. Nature, 2011, 470, 554-557.	13.7	162
31	Efficient Gene Transfer in Bacterial Cell Chains. MBio, 2011, 2, .	1.8	70
32	The Sporulation Protein SirA Inhibits the Binding of DnaA to the Origin of Replication by Contacting a Patch of Clustered Amino Acids. Journal of Bacteriology, 2011, 193, 1302-1307.	1.0	42
33	Primosomal Proteins DnaD and DnaB Are Recruited to Chromosomal Regions Bound by DnaA in<i>Bacillus subtilis</i>. Journal of Bacteriology, 2011, 193, 640-648.	1.0	42
34	Regulation of Horizontal Gene Transfer in <i>Bacillus subtilis</i> by Activation of a Conserved Site-Specific Protease. Journal of Bacteriology, 2011, 193, 22-29.	1.0	52
35	Autonomous plasmidâ€like replication of a conjugative transposon. Molecular Microbiology, 2010, 75, 268-279.	1.2	103
36	Ordered association of helicase loader proteins with the <i>Bacillus subtilis</i> origin of replication <i>in vivo</i>. Molecular Microbiology, 2010, 75, 452-461.	1.2	63

#	Article	IF	Citations
37	Polar Positioning of a Conjugation Protein from the Integrative and Conjugative Element ICE<i>Bs1</i>of<i>Bacillus subtilis</i>. Journal of Bacteriology, 2010, 192, 38-45.	1.0	42
38	When simple sequence comparison fails: the cryptic case of the shared domains of the bacterial replication initiation proteins DnaB and DnaD. Nucleic Acids Research, 2010, 38, 6930-6942.	6.5	26
39	The Transcriptional Regulator Rok Binds A+T-Rich DNA and Is Involved in Repression of a Mobile Genetic Element in Bacillus subtilis. PLoS Genetics, 2010, 6, e1001207.	1.5	90
40	Intragenic and Extragenic Suppressors of Temperature Sensitive Mutations in the Replication Initiation Genes dnaD and dnaB of Bacillus subtilis. PLoS ONE, 2009, 4, e6774.	1.1	10
41	Dynamic Association of the Replication Initiator and Transcription Factor DnaA with the Bacillus subtilis Chromosome during Replication Stress. Journal of Bacteriology, 2009, 191, 486-493.	1.0	28
42	YabA of <i>Bacillus subtilis</i> controls DnaAâ€mediated replication initiation but not the transcriptional response to replication stress. Molecular Microbiology, 2009, 74, 454-466.	1.2	43
43	Comparison of Responses to Double-Strand Breaks between<i>Escherichia coli</i>and<i>Bacillus subtilis</i>Reveals Different Requirements for SOS Induction. Journal of Bacteriology, 2009, 191, 1152-1161.	1.0	65
44	A conserved antiâ€repressor controls horizontal gene transfer by proteolysis. Molecular Microbiology, 2008, 70, 570-582.	1.2	101
45	Inducible protein degradation in <i>Bacillus subtilis</i> using heterologous peptide tags and adaptor proteins to target substrates to the protease ClpXP. Molecular Microbiology, 2008, 70, 1012-1025.	1.2	86
46	A Degenerate Tripartite DNA-Binding Site Required for Activation of ComA-Dependent Quorum Response Gene Expression in Bacillus subtilis. Journal of Molecular Biology, 2008, 381, 261-275.	2.0	20
47	Clp and Lon Proteases Occupy Distinct Subcellular Positions in<i>Bacillus subtilis</i>. Journal of Bacteriology, 2008, 190, 6758-6768.	1.0	48
48	Replication is required for the RecA localization response to DNA damage in Bacillus subtilis. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 1360-1365.	3.3	55
49	Identification of the Origin of Transfer (oriT) and DNA Relaxase Required for Conjugation of the Integrative and Conjugative Element ICE Bs1 of Bacillus subtilis. Journal of Bacteriology, 2007, 189, 7254-7261.	1.0	79
50	SOS Induction in a Subpopulation of Structural Maintenance of Chromosome (Smc) Mutant Cells in Bacillus subtilis. Journal of Bacteriology, 2007, 189, 4359-4366.	1.0	15
51	Genome-wide coorientation of replication and transcription reduces adverse effects on replication in Bacillus subtilis. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 5608-5613.	3.3	99
52	Nutritional Control of Elongation of DNA Replication by (p)ppGpp. Cell, 2007, 128, 865-875.	13.5	267
53	Subcellular positioning of the origin region of the Bacillus subtilis chromosome is independent of sequences within oriC, the site of replication initiation, and the replication initiator DnaA. Molecular Microbiology, 2007, 63, 150-165.	1.2	42
54	Whole-genome analysis of the chromosome partitioning and sporulation protein Spo0J (ParB) reveals spreading and origin-distal sites on the Bacillus subtilis chromosome. Molecular Microbiology, 2007, 64, 703-718.	1.2	167

#	Article	IF	Citations
55	Identification and characterization of the immunity repressor (ImmR) that controls the mobile genetic element ICEBs1ofBacillus subtilis. Molecular Microbiology, 2007, 64, 1515-1528.	1.2	91
56	Identification and characterization of <i>int</i> (integrase), <i>xis</i> (excisionase) and chromosomal attachment sites of the integrative and conjugative element ICE<i>Bs1</i> of <i>Bacillus subtilis</i>. Molecular Microbiology, 2007, 66, 1356-1369.	1.2	72
57	Analysis of non-polar deletion mutations in the genes of the spo0K (opp) operon of Bacillus subtilis. FEMS Microbiology Letters, 2006, 153, 63-69.	0.7	24
58	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 Bacillus subtilis. Molecular Microbiology, 2006, 60, 853-869.	1.2	146
59	Spatial and temporal organization of the Bacillus subtilis replication cycle. Molecular Microbiology, 2006, 62, 57-71.	1.2	78
60	Modulation of the ComA-Dependent Quorum Response in Bacillus subtilis by Multiple Rap Proteins and Phr Peptides. Journal of Bacteriology, 2006, 188, 5273-5285.	1.0	95
61	Characterization of the Global Transcriptional Responses to Different Types of DNA Damage and Disruption of Replication in Bacillus subtilis. Journal of Bacteriology, 2006, 188, 5595-5605.	1.0	93
62	Conservation of genes and processes controlled by the quorum response in bacteria: characterization of genes controlled by the quorum-sensing transcription factor ComA in Bacillus subtilis. Molecular Microbiology, 2005, 57, 1159-1174.	1.2	146
63	Genetic Composition of the Bacillus subtilis SOS System. Journal of Bacteriology, 2005, 187, 7655-7666.	1.0	172
64	A transcriptional response to replication status mediated by the conserved bacterial replication protein DnaA. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12932-12937.	3.3	96
65	Regulation of a Bacillus subtilis 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
66	Multicopy Plasmids Affect Replisome Positioning in Bacillus subtilis. Journal of Bacteriology, 2004, 186, 7084-7090.	1.0	19
67	Identification of AbrB-regulated genes involved in biofilm formation by Bacillus subtilis. Molecular Microbiology, 2004, 52, 847-860.	1.2	177
68	Control of DNA replication initiation by recruitment of an essential initiation protein to the membrane of Bacillus subtilis. Molecular Microbiology, 2004, 52, 1757-1767.	1.2	80
69	Structure and Mechanism of Action of Sda, an Inhibitor of the Histidine Kinases that Regulate Initiation of Sporulation in Bacillus subtilis. Molecular Cell, 2004, 13, 689-701.	4.5	110
70	FapR, a Bacterial Transcription Factor Involved in Global Regulation of Membrane Lipid Biosynthesis. Developmental Cell, 2003, 4, 663-672.	3.1	161
71	Effects of the Chromosome Partitioning Protein Spo0J (ParB) on oriC Positioning and Replication Initiation in Bacillus subtilis. Journal of Bacteriology, 2003, 185, 1326-1337.	1.0	93
72	Isolation and Characterization of Mutants of the Bacillus subtilis Oligopeptide Permease with Altered Specificity of Oligopeptide Transport. Journal of Bacteriology, 2003, 185, 6425-6433.	1.0	24

#	Article	IF	Citations
73	Structural Maintenance of Chromosomes Protein of Bacillus subtilis Affects Supercoiling In Vivo. Journal of Bacteriology, 2002, 184, 5317-5322.	1.0	59
74	Characterization of comQ and comX, Two Genes Required for Production of ComX Pheromone in Bacillus subtilis. Journal of Bacteriology, 2002, 184, 410-419.	1.0	122
75	Genome-Wide Analysis of the Stationary-Phase Sigma Factor (Sigma-H) Regulon of Bacillus subtilis. Journal of Bacteriology, 2002, 184, 4881-4890.	1.0	292
76	Subcellular localization of the Bacillus subtilis structural maintenance of chromosomes (SMC) protein. Molecular Microbiology, 2002, 46, 997-1009.	1.2	74
77	Replication Initiation Proteins Regulate a Developmental Checkpoint in Bacillus subtilis. Cell, 2001, 104, 269-279.	13.5	193
78	Control of a Family of Phosphatase Regulatory Genes (phr) by the Alternate Sigma Factor Sigma-H of Bacillus subtilis. Journal of Bacteriology, 2001, 183, 4905-4909.	1.0	63
79	In Vivo Effects of Sporulation Kinases on Mutant Spo0A Proteins in Bacillus subtilis. Journal of Bacteriology, 2001, 183, 6573-6578.	1.0	107
80	The extrusion-capture model for chromosome partitioning in bacteria. Genes and Development, 2001, 15, 2031-2041.	2.7	135
81	Control of Sporulation Gene Expression in Bacillus subtilis by the Chromosome Partitioning Proteins Soj (ParA) and Spo0J (ParB). Journal of Bacteriology, 2000, 182, 3446-3451.	1.0	77
82	Control of Initiation of Sporulation by Replication Initiation Genes in Bacillus subtilis. Journal of Bacteriology, 2000, 182, 2989-2991.	1.0	18
83	Movement of Replicating DNA through a Stationary Replisome. Molecular Cell, 2000, 6, 1321-1330.	4.5	213
84	Control of Development by Altered Localization of a Transcription Factor in B. subtilis. Molecular Cell, 1999, 4, 665-672.	4.5	165
85	An Autoregulatory Circuit Affecting Peptide Signaling in <i>Bacillus subtilis</i>. Journal of Bacteriology, 1999, 181, 5193-5200.	1.0	108
86	Synthetic Lethal Phenotypes Caused by Mutations Affecting Chromosome Partitioning in <i>Bacillus subtilis</i>. Journal of Bacteriology, 1999, 181, 5860-5864.	1.0	65
87	Cell cycle and sporulation in Bacillus subtilis. Current Opinion in Microbiology, 1998, 1, 630-635.	2.3	33
88	The ins and outs of peptide signaling. Trends in Microbiology, 1998, 6, 288-294.	3.5	160
89	Identification and Characterization of a Bacterial Chromosome Partitioning Site. Cell, 1998, 92, 675-685.	13.5	391
90	Chromosome arrangement within a bacterium. Current Biology, 1998, 8, 1102-1109.	1.8	186

#	Article	IF	Citations
91	Localization of Bacterial DNA Polymerase: Evidence for a Factory Model of Replication. , 1998, 282, 1516-1519.		452
92	An Exported Peptide Functions Intracellularly to Contribute to Cell Density Signaling in B. subtilis. Cell, 1997, 89, 917-925.	13.5	230
93	Bipolar Localization of the Replication Origin Regions of Chromosomes in Vegetative and Sporulating Cells of B. subtilis. Cell, 1997, 88, 667-674.	13.5	357
94	A regulatory switch involving a Clp atpase. BioEssays, 1997, 19, 455-458.	1.2	9
95	Who's competent and when: regulation of natural genetic competence in bacteria. Trends in Genetics, 1996, 12, 150-155.	2.9	169
96	Altering the level and regulation of the major sigma subunit of RNA polymerase affects gene expression and development in Bacillus subtilis. Molecular Microbiology, 1996, 20, 201-212.	1.2	53
97	Genetic Networks Controlling the Initiation of Sporulation and the Development of Genetic Competence in Bacillus subtilis. Annual Review of Genetics, 1995, 29, 477-508.	3.2	381
98	Biochemical and genetic characterization of a competence pheromone from B. subtilis. Cell, 1994, 77, 207-216.	13.5	435
99	Sequence and properties of mecA, a negative regulator of genetic competence in Bacillus subtilis. Molecular Microbiology, 1993, 9, 365-373.	1.2	59
100	Extracellular Peptide Signaling and Quorum Responses in Development, Self-Recognition, and Horizontal Gene Transfer in Bacillus subtilis. , 0, , 13-30.		2
101	Chromosome Replication and Segregation. , 0, , 71-86.		12
102	Regulation of the Initiation of Endospore Formation in<i>Bacillus subtilis</i>. , 0, , 151-166.		23