Daniel B Kearns

List of Publications by Year
in descending order

106 papers	8,847 citations	61857 43 h-index	48187 88 g-index
122 all docs	122 docs citations	122 times ranked	7173 citing authors

#	Article	IF	Citations
1	Tn FLXopen : Markerless Transposons for Functional Fluorescent Fusion Proteins and Protein Interaction Prediction. Microbiology Spectrum, 2022, , e0242821.	1.2	0
2	SmiA is a hybrid priming/scaffolding adaptor for the LonA protease in Bacillus subtilis. Journal of Biological Chemistry, 2022, 298, 102045.	1.6	5
3	Identification of Genes Required for Swarming Motility in Bacillus subtilis Using Transposon Mutagenesis and High-Throughput Sequencing (TnSeq). Journal of Bacteriology, 2022, 204, .	1.0	5
4	RnhP is a plasmidâ€borne RNase HI that contributes to genome maintenance in the ancestral strain Bacillus subtilis NCIB 3610. Molecular Microbiology, 2021, 115, 99-115.	1.2	6
5	Noc Corrals Migration of FtsZ Protofilaments during Cytokinesis in Bacillus subtilis. MBio, 2021, 12, .	1.8	19
6	CwlQ Is Required for Swarming Motility but Not Flagellar Assembly in Bacillus subtilis. Journal of Bacteriology, 2021, 203, .	1.0	3
7	NusG is an intrinsic transcription termination factor that stimulates motility and coordinates gene expression with NusA. ELife, 2021, 10, .	2.8	27
8	Bacterial Swarmers Enriched During Intestinal Stress Ameliorate Damage. Gastroenterology, 2021, 161, 211-224.	0.6	13
9	Molecular and Cell Biological Analysis of SwrB in Bacillus subtilis. Journal of Bacteriology, 2021, 203, e0022721.	1.0	0
10	The Division Defect of aBacillus subtilis minD nocDouble Mutant Can Be Suppressed by Spx-Dependent and Spx-Independent Mechanisms. Journal of Bacteriology, 2021, 203, e0024921.	1.0	5
11	Structural and functional characterization of the bacterial biofilm activator RemA. Nature Communications, 2021, 12, 5707.	5.8	4
12	The Solution Structures and Interaction of SinR and SinI: Elucidating the Mechanism of Action of the Master Regulator Switch for Biofilm Formation in Bacillus subtilis. Journal of Molecular Biology, 2020, 432, 343-357.	2.0	23
13	A phase diagram for bacterial swarming. Communications Physics, 2020, 3, .	2.0	56
14	Contact with the CsrA Core Is Required for Allosteric Inhibition by FliW in Bacillus subtilis. Journal of Bacteriology, 2020, 203, .	1.0	1
15	The Min System Disassembles FtsZ Foci and Inhibits Polar Peptidoglycan Remodeling in Bacillus subtilis. MBio, 2020, 11, .	1.8	9
16	Role for Cell-Surface Collagen of Streptococcus pyogenes in Infections. ACS Infectious Diseases, 2020, 6, 1836-1843.	1.8	9
17	Harnessing Î²-Lactam Antibiotics for Illumination of the Activity of Penicillin-Binding Proteins in Bacillus subtilis. ACS Chemical Biology, 2020, 15, 1242-1251.	1.6	29
18	The Large pBS32/pLS32 Plasmid of Ancestral Bacillus subtilis. Journal of Bacteriology, 2020, 202, .	1.0	6

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19	Translation elongation factor P (EF-P). FEMS Microbiology Reviews, 2020, 44, 208-218.	3.9	21
20	Biosurfactant-Mediated Membrane Depolarization Maintains Viability during Oxygen Depletion in Bacillus subtilis. Current Biology, 2020, 30, 1011-1022.e6.	1.8	41
21	Tn FLX : a Third-Generation mariner -Based Transposon System for Bacillus subtilis. Applied and Environmental Microbiology, 2020, 86, .	1.4	9
22	Suppressor mutations in ribosomal proteins and FliY restore Bacillus subtilis swarming motility in the absence of EF-P. PLoS Genetics, 2019, 15, e1008179.	1.5	15
23	Functional Regulators of Bacterial Flagella. Annual Review of Microbiology, 2019, 73, 225-246.	2.9	51
24	Flagellar Stators Activate a Diguanylate Cyclase To Inhibit Flagellar Stators. Journal of Bacteriology, 2019, 201, .	1.0	2
25	Transcriptional Regulation and Mechanism of SigN (ZpdN), a pBS32-Encoded Sigma Factor in Bacillus subtilis. MBio, 2019, 10, .	1.8	14
26	Organization of the Flagellar Switch Complex of Bacillus subtilis. Journal of Bacteriology, 2019, 201, .	1.0	18
27	Filling in the gaps for the master regulator of biofilm formation in Bacillus subtilis: A structural and biochemical look at SinR and SinI. FASEB Journal, 2019, 33, .	0.2	0
28	EF-P Posttranslational Modification Has Variable Impact on Polyproline Translation in Bacillus subtilis. MBio, 2018, 9, .	1.8	29
29	The C-Terminal Region of Bacillus subtilis SwrA Is Required for Activity and Adaptor-Dependent LonA Proteolysis. Journal of Bacteriology, 2018, 200, .	1.0	10
30	SwrD (YlzI) Promotes Swarming in Bacillus subtilis by Increasing Power to Flagellar Motors. Journal of Bacteriology, 2018, 200, .	1.0	22
31	Assembly Order of Flagellar Rod Subunits in Bacillus subtilis. Journal of Bacteriology, 2018, 200, .	1.0	18
32	FliS/flagellin/FliW heterotrimer couples type III secretion and flagellin homeostasis. Scientific Reports, 2018, 8, 11552.	1.6	23
33	Complete Genome Sequence of Undomesticated Bacillus subtilis Strain NCIB 3610. Genome Announcements, 2017, 5, .	0.8	42
34	A structural model of flagellar filament switching across multiple bacterial species. Nature Communications, 2017, 8, 960.	5.8	90
35	Effect of Cell Aspect Ratio on Swarming Bacteria. Physical Review Letters, 2017, 118, 158002.	2.9	44
36	Carbonyl reduction by YmfI in Bacillus subtilis prevents accumulation of an inhibitory EFâ€P modification state. Molecular Microbiology, 2017, 106, 236-251.	1.2	26

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37	Viscous drag on the flagellum activates Bacillus subtilis entry into the Kâ€state. Molecular Microbiology, 2017, 106, 367-380.	1.2	14
38	MotI (DgrA) acts as a molecular clutch on the flagellar stator protein MotA in Bacillus subtilis. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13537-13542.	3.3	44
39	Noncontact Cohesive Swimming of Bacteria in Two-Dimensional Liquid Films. Physical Review Letters, 2017, 119, 018101.	2.9	17
40	Ultrastructural analysis of bacteriophage Î¦29 during infection of Bacillus subtilis. Journal of Structural Biology, 2017, 197, 163-171.	1.3	29
41	Bacteria and bacterial envelope components enhance mammalian reovirus thermostability. PLoS Pathogens, 2017, 13, e1006768.	2.1	83
42	Translation Control of Swarming Proficiency in Bacillus subtilis by 5-Amino-pentanolylated Elongation Factor P. Journal of Biological Chemistry, 2016, 291, 10976-10985.	1.6	50
43	FliW antagonizes CsrA RNA binding by a noncompetitive allosteric mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9870-9875.	3.3	41
44	The Microbial Olympics 2016. Nature Microbiology, 2016, 1, 16122.	5.9	7
45	csrT Represents a New Class of csrA -Like Regulatory Genes Associated with Integrative Conjugative Elements of Legionella pneumophila. Journal of Bacteriology, 2016, 198, 553-564.	1.0	12
46	Expression of multipleBacillus subtilisgenes is controlled by decay ofslrAmRNA from Rho-dependent 3â€² ends. Nucleic Acids Research, 2016, 44, 3364-3372.	6.5	26
47	Preparation, Imaging, and Quantification of Bacterial Surface Motility Assays. Journal of Visualized Experiments, 2015, , .	0.2	44
48	Functional Activation of the Flagellar Type III Secretion Export Apparatus. PLoS Genetics, 2015, 11, e1005443.	1.5	15
49	Adaptor-mediated Lon proteolysis restricts Bacillus subtilis hyperflagellation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 250-255.	3.3	78
50	Predation by Myxococcus xanthus Induces Bacillus subtilis To Form Spore-Filled Megastructures. Applied and Environmental Microbiology, 2015, 81, 203-210.	1.4	63
51	Identification of Poly-N-acetylglucosamine as a Major Polysaccharide Component of the Bacillus subtilis Biofilm Matrix. Journal of Biological Chemistry, 2015, 290, 19261-19272.	1.6	118
52	FlgM Is Secreted by the Flagellar Export Apparatus in Bacillus subtilis. Journal of Bacteriology, 2015, 197, 81-91.	1.0	60
53	Global analysis of <scp>mRNA</scp> decay intermediates in <scp>B</scp>acillus subtilis wildâ€type and polynucleotide phosphorylaseâ€deletion strains. Molecular Microbiology, 2014, 94, 41-55.	1.2	41
54	Bacillaene and Sporulation Protect Bacillus subtilis from Predation by Myxococcus xanthus. Applied and Environmental Microbiology, 2014, 80, 5603-5610.	1.4	119

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55	Engineering of Bacillus subtilis Strains To Allow Rapid Characterization of Heterologous Diguanylate Cyclases and Phosphodiesterases. Applied and Environmental Microbiology, 2014, 80, 6167-6174.	1.4	57
56	The Canonical Twin-Arginine Translocase Components Are Not Required for Secretion of Folded Green Fluorescent Protein from the Ancestral Strain of Bacillus subtilis. Applied and Environmental Microbiology, 2014, 80, 3219-3232.	1.4	6
57	The Structure and Regulation of Flagella inBacillus subtilis. Annual Review of Genetics, 2014, 48, 319-340.	3.2	134
58	Defects in the Flagellar Motor Increase Synthesis of Poly-Î³-Glutamate in Bacillus subtilis. Journal of Bacteriology, 2014, 196, 740-753.	1.0	55
59	Protection from Intestinal Inflammation by Bacterial Exopolysaccharides. Journal of Immunology, 2014, 192, 4813-4820.	0.4	83
60	You get what you select for: better swarming through more flagella. Trends in Microbiology, 2013, 21, 508-509.	3.5	13
61	A Plasmid-Encoded Phosphatase Regulates Bacillus subtilis Biofilm Architecture, Sporulation, and Genetic Competence. Journal of Bacteriology, 2013, 195, 2437-2448.	1.0	69
62	The cell biology of peritrichous flagella in <scp>B</scp>acillus subtilis. Molecular Microbiology, 2013, 87, 211-229.	1.2	126
63	Regulation of flagellar motility during biofilm formation. FEMS Microbiology Reviews, 2013, 37, 849-871.	3.9	447
64	<scp>RemA</scp> is a <scp>DNA</scp>â€binding protein that activates biofilm matrix gene expression in <scp>B</scp>acillus subtilis. Molecular Microbiology, 2013, 88, 984-997.	1.2	44
65	Functional Characterization of Core Components of the Bacillus subtilis Cyclic-Di-GMP Signaling Pathway. Journal of Bacteriology, 2013, 195, 4782-4792.	1.0	96
66	FliW and FliS Function Independently To Control Cytoplasmic Flagellin Levels in Bacillus subtilis. Journal of Bacteriology, 2013, 195, 297-306.	1.0	55
67	Plasmid-Encoded ComI Inhibits Competence in the Ancestral 3610 Strain of Bacillus subtilis. Journal of Bacteriology, 2013, 195, 4085-4093.	1.0	189
68	ModifiedmarinerTransposons for Random Inducible-Expression Insertions and Transcriptional Reporter Fusion Insertions in Bacillus subtilis. Applied and Environmental Microbiology, 2012, 78, 778-785.	1.4	39
69	Molecular Characterization of the Flagellar Hook in Bacillus subtilis. Journal of Bacteriology, 2012, 194, 4619-4629.	1.0	43
70	Microbe-Associated Molecular Patterns-Triggered Root Responses Mediate Beneficial Rhizobacterial Recruitment in Arabidopsis Â Â Â. Plant Physiology, 2012, 160, 1642-1661.	2.3	157
71	Selective Penicillin-Binding Protein Imaging Probes Reveal Substructure in Bacterial Cell Division. ACS Chemical Biology, 2012, 7, 1746-1753.	1.6	82
72	Swarming motility and the control of master regulators of flagellar biosynthesis. Molecular Microbiology, 2012, 83, 14-23.	1.2	81

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73	SlrA/SinR/SlrR inhibits motility gene expression upstream of a hypersensitive and hysteretic switch at the level of Ïƒ^D in Bacillus subtilis. Molecular Microbiology, 2012, 83, 1210-1228.	1.2	49
74	DegUâ€phosphate activates expression of the antiâ€sigma factor FlgM in Bacillus subtilis. Molecular Microbiology, 2011, 81, 1092-1108.	1.2	44
75	CsrA-FliW interaction governs flagellin homeostasis and a checkpoint on flagellar morphogenesis in Bacillus subtilis. Molecular Microbiology, 2011, 82, 447-461.	1.2	104
76	New inhibitors of colony spreading in Bacillus subtilis and Bacillus anthracis. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 5583-5588.	1.0	4
77	Tracing the Domestication of a Biofilm-Forming Bacterium. Journal of Bacteriology, 2011, 193, 2027-2034.	1.0	194
78	Gene position in a long operon governs motility development in Bacillus subtilis. Molecular Microbiology, 2010, 76, 273-285.	1.2	65
79	A field guide to bacterial swarming motility. Nature Reviews Microbiology, 2010, 8, 634-644.	13.6	1,180
80	The EpsE Flagellar Clutch Is Bifunctional and Synergizes with EPS Biosynthesis to Promote Bacillus subtilis Biofilm Formation. PLoS Genetics, 2010, 6, e1001243.	1.5	111
81	Multi-species integrative biclustering. Genome Biology, 2010, 11, R96.	13.9	38
82	RemA (YlzA) and RemB (YaaB) Regulate Extracellular Matrix Operon Expression and Biofilm Formation in Bacillus subtilis. Journal of Bacteriology, 2009, 191, 3981-3991.	1.0	38
83	Role of the Ïƒ^D-Dependent Autolysins inBacillus subtilisPopulation Heterogeneity. Journal of Bacteriology, 2009, 191, 5775-5784.	1.0	101
84	Laboratory Strains ofBacillus subtilisDo Not Exhibit Swarming Motility. Journal of Bacteriology, 2009, 191, 7129-7133.	1.0	64
85	GrowingBacillus subtilistendrils sense and avoid each other. FEMS Microbiology Letters, 2009, 298, 12-19.	0.7	14
86	Division of labour during Bacillus subtilis biofilm formation. Molecular Microbiology, 2008, 67, 229-231.	1.2	33
87	A novel regulatory protein governing biofilm formation in Bacillus subtilis. Molecular Microbiology, 2008, 68, 1117-1127.	1.2	129
88	MinJ (YvjD) is a topological determinant of cell division in Bacillus subtilis. Molecular Microbiology, 2008, 70, 1166-1179.	1.2	233
89	A Molecular Clutch Disables Flagella in the Bacillus subtilis Biofilm. Science, 2008, 320, 1636-1638.	6.0	275
90	MICROBIOLOGY: Bright Insight into Bacterial Gliding. Science, 2007, 315, 773-774.	6.0	4

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91	Targets of the master regulator of biofilm formation in Bacillus subtilis. Molecular Microbiology, 2006, 59, 1216-1228.	1.2	256
92	A major protein component of the Bacillus subtilis biofilm matrix. Molecular Microbiology, 2006, 59, 1229-1238.	1.2	605
93	A defined medium to investigate sliding motility in a Bacillus subtilis flagella-less mutant. BMC Microbiology, 2006, 6, 31.	1.3	41
94	Cell population heterogeneity during growth of Bacillus subtilis. Genes and Development, 2005, 19, 3083-3094.	2.7	320
95	Genetic Requirements for Potassium Ion-Dependent Colony Spreading in Bacillus subtilis. Journal of Bacteriology, 2005, 187, 8462-8469.	1.0	58
96	Novel Genes That Influence Development in Streptomyces coelicolor. Journal of Bacteriology, 2004, 186, 3570-3577.	1.0	34
97	Genes governing swarming in Bacillus subtilis and evidence for a phase variation mechanism controlling surface motility. Molecular Microbiology, 2004, 52, 357-369.	1.2	248
98	A master regulator for biofilm formation by Bacillus subtilis. Molecular Microbiology, 2004, 55, 739-749.	1.2	506
99	Swarming motility in undomesticated Bacillus subtilis. Molecular Microbiology, 2004, 49, 581-590.	1.2	444
100	An Extracellular Matrix-Associated Zinc Metalloprotease Is Required for Dilauroyl Phosphatidylethanolamine Chemotactic Excitation in Myxococcus xanthus. Journal of Bacteriology, 2002, 184, 1678-1684.	1.0	58
101	Lipid chemotaxis and signal transduction in Myxococcus xanthus. Trends in Microbiology, 2001, 9, 126-129.	3.5	55
102	[10] Directed movement and surface-borne motility of myxococcus and pseudomonas. Methods in Enzymology, 2001, 336, 94-102.	0.4	10
103	Pseudomonas aeruginosa Exhibits Directed Twitching Motility Up Phosphatidylethanolamine Gradients. Journal of Bacteriology, 2001, 183, 763-767.	1.0	92
104	Chemotaxis in a gliding bacterium. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 11957-11962.	3.3	90
105	Inducer Expulsion Is Not a Determinant of Diauxic Growth in Streptococcus bovis. Current Microbiology, 1996, 32, 221-224.	1.0	3
106	Catabolite regulation in a diauxic strain and a nondiauxic strain of Streptococcus bovis. Current Microbiology, 1996, 33, 216-219.	1.0	9