

Kit Pogliano

List of Publications by Year in descending order

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Version: 2024-02-01

98
papers

10,396
citations

53751

45
h-index

39638

94
g-index

108
all docs

108
docs citations

108
times ranked

11124
citing authors

#	ARTICLE	IF	CITATIONS
1	Isolation and characterization of Streptomyces bacteriophages and Streptomyces strains encoding biosynthetic arsenals. PLoS ONE, 2022, 17, e0262354.	1.1	5
2	Subcellular organization of viral particles during maturation of nucleus-forming jumbo phage. Science Advances, 2022, 8, eabj9670.	4.7	18
3	Bacterial-fungal interactions revealed by genome-wide analysis of bacterial mutant fitness. Nature Microbiology, 2021, 6, 87-102.	5.9	49
4	Metabolic differentiation and intercellular nurturing underpin bacterial endospore formation. Science Advances, 2021, 7, .	4.7	13
5	Asymmetric localization of the cell division machinery during Bacillus subtilis sporulation. ELife, 2021, 10, .	2.8	24
6	Bacterial Cytological Profiling Identifies Rhodanine-Containing PAINS Analogs as Specific Inhibitors of <i>Escherichia coli</i> Thymidylate Kinase <i>In Vivo</i> . Journal of Bacteriology, 2021, 203, e0010521.	1.0	6
7	Antimicrobials from a feline commensal bacterium inhibit skin infection by drug-resistant <i>S. pseudintermedius</i> . ELife, 2021, 10, .	2.8	14
8	Shaping an Endospore: Architectural Transformations During <i>Bacillus subtilis</i> Sporulation. Annual Review of Microbiology, 2020, 74, 361-386.	2.9	46
9	Viral Capsid Trafficking along Treadmilling Tubulin Filaments in Bacteria. Cell, 2019, 177, 1771-1780.e12.	13.5	62
10	Group A Streptococcal S Protein Utilizes Red Blood Cells as Immune Camouflage and Is a Critical Determinant for Immune Evasion. Cell Reports, 2019, 29, 2979-2989.e15.	2.9	16
11	The molecular architecture of engulfment during Bacillus subtilis sporulation. ELife, 2019, 8, .	2.8	34
12	SCH79797 improves outcomes in experimental bacterial pneumonia by boosting neutrophil killing and direct antibiotic activity. Journal of Antimicrobial Chemotherapy, 2018, 73, 1586-1594.	1.3	18
13	Chromosome Translocation Inflates Bacillus Forespores and Impacts Cellular Morphology. Cell, 2018, 172, 758-770.e14.	13.5	42
14	Spatiotemporally regulated proteolysis to dissect the role of vegetative proteins during <i>Bacillus subtilis</i> sporulation: cell-specific requirement of H^+ and A^+ . Molecular Microbiology, 2018, 108, 45-62.	1.2	12
15	Rapid Inhibition Profiling Identifies a Keystone Target in the Nucleotide Biosynthesis Pathway. ACS Chemical Biology, 2018, 13, 3251-3258.	1.6	11
16	Identification of the S-transferase like superfamily bacillithiol transferases encoded by Bacillus subtilis. PLoS ONE, 2018, 13, e0192977.	1.1	8
17	Assembly of a nucleus-like structure during viral replication in bacteria. Science, 2017, 355, 194-197.	6.0	207
18	Phenylthiazole Antibacterial Agents Targeting Cell Wall Synthesis Exhibit Potent Activity in Vitro and in Vivo against Vancomycin-Resistant Enterococci. Journal of Medicinal Chemistry, 2017, 60, 2425-2438.	2.9	46

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19	Arylthiazole antibiotics targeting intracellular methicillin-resistant <i>Staphylococcus aureus</i> (MRSA) that interfere with bacterial cell wall synthesis. <i>European Journal of Medicinal Chemistry</i> , 2017, 139, 665-673.	2.6	46
20	Bacteriological profiling of diphenylureas as a novel class of antibiotics against methicillin-resistant <i>Staphylococcus aureus</i> . <i>PLoS ONE</i> , 2017, 12, e0182821.	1.1	39
21	Rapid Inhibition Profiling in <i>Bacillus subtilis</i> to Identify the Mechanism of Action of New Antimicrobials. <i>ACS Chemical Biology</i> , 2016, 11, 2222-2231.	1.6	53
22	Phosphorylation of spore coat proteins by a family of atypical protein kinases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E3482-91.	3.3	56
23	Reticulons Regulate the ER Inheritance Block during ER Stress. <i>Developmental Cell</i> , 2016, 37, 279-288.	3.1	13
24	Sharing and community curation of mass spectrometry data with Global Natural Products Social Molecular Networking. <i>Nature Biotechnology</i> , 2016, 34, 828-837.	9.4	2,802
25	Bacterial Cytological Profiling (BCP) as a Rapid and Accurate Antimicrobial Susceptibility Testing Method for <i>Staphylococcus aureus</i> . <i>EBioMedicine</i> , 2016, 4, 95-103.	2.7	64
26	Application of bacterial cytological profiling to crude natural product extracts reveals the antibacterial arsenal of <i>Bacillus subtilis</i> . <i>Journal of Antibiotics</i> , 2016, 69, 353-361.	1.0	52
27	Cell-wall remodeling drives engulfment during <i>Bacillus subtilis</i> sporulation. <i>ELife</i> , 2016, 5, .	2.8	42
28	Bacillithiol: a key protective thiol in <i>Staphylococcus aureus</i> . <i>Expert Review of Anti-Infective Therapy</i> , 2015, 13, 1089-1107.	2.0	41
29	Fatty acid-releasing activities in <i>Sinorhizobium meliloti</i> include unusual diacylglycerol lipase. <i>Environmental Microbiology</i> , 2015, 17, 3391-3406.	1.8	10
30	Visualization and functional dissection of coaxial paired SpoIIIE channels across the sporulation septum. <i>ELife</i> , 2015, 4, e06474.	2.8	34
31	The Dynamic Architecture of the <i>Bacillus</i> Cell. , 2014, , 13-20.		3
32	Impact of a Transposon Insertion in <i>phzF2</i> on the Specialized Metabolite Production and Interkingdom Interactions of <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , 2014, 196, 1683-1693.	1.0	33
33	Bistable Forespore Engulfment in <i>Bacillus subtilis</i> by a Zipper Mechanism in Absence of the Cell Wall. <i>PLoS Computational Biology</i> , 2014, 10, e1003912.	1.5	20
34	MS/MS-based networking and peptidogenomics guided genome mining revealed the stenothricin gene cluster in <i>Streptomyces roseosporus</i> . <i>Journal of Antibiotics</i> , 2014, 67, 99-104.	1.0	64
35	In Vivo Assembly and Arrangement of the DNA Translocase SpoIIIE During Chromosome Segregation and Membrane Fission in <i>B. Subtilis</i> . <i>Biophysical Journal</i> , 2014, 106, 226a.	0.2	0
36	Purification and characterization of the <i>Staphylococcus aureus</i> bacillithiol transferase BstA. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 2851-2861.	1.1	17

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37	Bacterial cytological profiling rapidly identifies the cellular pathways targeted by antibacterial molecules. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 16169-16174.	3.3	272
38	Peptidoglycan transformations during <i>Bacillus subtilis</i> sporulation. Molecular Microbiology, 2013, 88, 673-686.	1.2	109
39	MS/MS networking guided analysis of molecule and gene cluster families. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E2611-20.	3.3	250
40	The <i>SpoIIQ</i> landmark protein has different requirements for septal localization and immobilization. Molecular Microbiology, 2013, 89, 1053-1068.	1.2	18
41	Functional requirements for bacteriophage growth: gene essentiality and expression in mycobacteriophage <i>G</i> files. Molecular Microbiology, 2013, 88, 577-589.	1.2	53
42	Visualization of pinholin lesions in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E2054-63.	3.3	41
43	Super-resolution microscopy reveals mechanistic details of bacterial cell division. Microscopy and Microanalysis, 2012, 18, 672-673.	0.2	0
44	Microbial metabolic exchange – the chemotype-to-phenotype link. Nature Chemical Biology, 2012, 8, 26-35.	3.9	199
45	Primer on Agar-Based Microbial Imaging Mass Spectrometry. Journal of Bacteriology, 2012, 194, 6023-6028.	1.0	133
46	Mass spectral molecular networking of living microbial colonies. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E1743-52.	3.3	804
47	The <i>Bacillus subtilis</i> cannibalism toxin SDP collapses the proton motive force and induces autolysis. Molecular Microbiology, 2012, 84, 486-500.	1.2	101
48	Cellular Architecture Mediates DivIVA Ultrastructure and Regulates Min Activity in <i>Bacillus subtilis</i> . MBio, 2011, 2, .	1.8	126
49	Microbial competition between <i>Bacillus subtilis</i> and <i>Staphylococcus aureus</i> monitored by imaging mass spectrometry. Microbiology (United Kingdom), 2011, 157, 2485-2492.	0.7	108
50	Isolation and Characterization of a Psychropiezophilic Alphaproteobacterium. Applied and Environmental Microbiology, 2011, 77, 8145-8153.	1.4	50
51	Holin triggering in real time. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 798-803.	3.3	130
52	Recruitment of a species-specific translational arrest module to monitor different cellular processes. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6073-6078.	3.3	57
53	Expanding the Diversity of Mycobacteriophages: Insights into Genome Architecture and Evolution. PLoS ONE, 2011, 6, e16329.	1.1	133
54	Cell wall synthesis is necessary for membrane dynamics during sporulation of <i>Bacillus subtilis</i> . Molecular Microbiology, 2010, 76, 956-970.	1.2	68

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55	Dynamic SpoIIIE assembly mediates septal membrane fission during <i>Bacillus subtilis</i> sporulation. <i>Genes and Development</i> , 2010, 24, 1160-1172.	2.7	60
56	Automated Quantitative Live Cell Fluorescence Microscopy. <i>Cold Spring Harbor Perspectives in Biology</i> , 2010, 2, a000455-a000455.	2.3	16
57	SpoIID-Mediated Peptidoglycan Degradation Is Required throughout Engulfment during <i>Bacillus subtilis</i> Sporulation. <i>Journal of Bacteriology</i> , 2010, 192, 3174-3186.	1.0	43
58	Imaging mass spectrometry of intraspecies metabolic exchange revealed the cannibalistic factors of <i>Bacillus subtilis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 16286-16290.	3.3	179
59	Transposon Assisted Gene Insertion Technology (TAGIT): A Tool for Generating Fluorescent Fusion Proteins. <i>PLoS ONE</i> , 2010, 5, e8731.	1.1	18
60	Divergent stalling sequences sense and control cellular physiology. <i>Biochemical and Biophysical Research Communications</i> , 2010, 393, 1-5.	1.0	101
61	A ribosome nascent chain sensor of membrane protein biogenesis in <i>Bacillus subtilis</i> . <i>EMBO Journal</i> , 2009, 28, 3461-3475.	3.5	87
62	Sequence-directed DNA export guides chromosome translocation during sporulation in <i>Bacillus subtilis</i> . <i>Nature Structural and Molecular Biology</i> , 2008, 15, 485-493.	3.6	91
63	<i>Bacillus subtilis</i> MinC destabilizes FtsZ-rings at new cell poles and contributes to the timing of cell division. <i>Genes and Development</i> , 2008, 22, 3475-3488.	2.7	114
64	Impact of Membrane Fusion and Proteolysis on SpoIIQ Dynamics and Interaction with SpoIIIAH. <i>Journal of Biological Chemistry</i> , 2007, 282, 2576-2586.	1.6	25
65	Dual localization pathways for the engulfment proteins during <i>Bacillus subtilis</i> sporulation. <i>Molecular Microbiology</i> , 2007, 65, 1534-1546.	1.2	40
66	Cell-specific SpoIIIE assembly and DNA translocation polarity are dictated by chromosome orientation. <i>Molecular Microbiology</i> , 2007, 66, 1066-1079.	1.2	48
67	Forespore Engulfment Mediated by a Ratchet-Like Mechanism. <i>Cell</i> , 2006, 126, 917-928.	13.5	84
68	Evidence that the SpoIIIE DNA translocase participates in membrane fusion during cytokinesis and engulfment. <i>Molecular Microbiology</i> , 2006, 59, 1097-1113.	1.2	60
69	Suppression of Engulfment Defects in <i>Bacillus subtilis</i> by Elevated Expression of the Motility Regulon. <i>Journal of Bacteriology</i> , 2006, 188, 1159-1164.	1.0	14
70	Engulfment-regulated proteolysis of SpoIIQ: evidence that dual checkpoints control Ifk activity. <i>Molecular Microbiology</i> , 2005, 58, 102-115.	1.2	42
71	Localization of Translocation Complex Components in <i>Bacillus subtilis</i> : Enrichment of the Signal Recognition Particle Receptor at Early Sporulation Septa. <i>Journal of Bacteriology</i> , 2005, 187, 5000-5002.	1.0	38
72	Zipper-like interaction between proteins in adjacent daughter cells mediates protein localization. <i>Genes and Development</i> , 2004, 18, 2916-2928.	2.7	93

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73	Septal localization of forespore membrane proteins during engulfment in <i>Bacillus subtilis</i> . <i>EMBO Journal</i> , 2004, 23, 1636-1646.	3.5	53
74	Chromosome segregation in Eubacteria. <i>Current Opinion in Microbiology</i> , 2003, 6, 586-593.	2.3	23
75	c-Jun Is Essential for Organization of the Epidermal Leading Edge. <i>Developmental Cell</i> , 2003, 4, 865-877.	3.1	208
76	The Membrane Domain of SpoIIIE Is Required for Membrane Fusion during <i>Bacillus subtilis</i> Sporulation. <i>Journal of Bacteriology</i> , 2003, 185, 2005-2008.	1.0	38
77	A cytoskeleton-like role for the bacterial cell wall during engulfment of the <i>Bacillus subtilis</i> forespore. <i>Genes and Development</i> , 2002, 16, 3253-3264.	2.7	106
78	Role of Cell-Specific SpoIIIE Assembly in Polarity of DNA Transfer. <i>Science</i> , 2002, 295, 137-139.	6.0	79
79	Partitioning of Chromosomal DNA during Establishment of Cellular Asymmetry in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2002, 184, 1743-1749.	1.0	28
80	The E1 ² and E2 Subunits of the <i>Bacillus subtilis</i> Pyruvate Dehydrogenase Complex Are Involved in Regulation of Sporulation. <i>Journal of Bacteriology</i> , 2002, 184, 2780-2788.	1.0	42
81	MinCD-dependent regulation of the polarity of SpoIIIE assembly and DNA transfer. <i>EMBO Journal</i> , 2002, 21, 6267-6274.	3.5	33
82	SpoIIB Localizes to Active Sites of Septal Biogenesis and Spatially Regulates Septal Thinning during Engulfment in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2000, 182, 1096-1108.	1.0	63
83	A Dispensable Role for Forespore-Specific Gene Expression in Engulfment of the Forespore during Sporulation of <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2000, 182, 2919-2927.	1.0	45
84	A vital stain for studying membrane dynamics in bacteria: a novel mechanism controlling septation during <i>Bacillus subtilis</i> sporulation. <i>Molecular Microbiology</i> , 1999, 31, 1149-1159.	1.2	223
85	Septation, dephosphorylation, and the activation of sigma F during sporulation in <i>Bacillus subtilis</i> . <i>Genes and Development</i> , 1999, 13, 1156-1167.	2.7	78
86	Aberrant Cell Division and Random FtsZ Ring Positioning in <i>Escherichia coli</i> <i>cpxA</i> * Mutants. <i>Journal of Bacteriology</i> , 1998, 180, 3486-3490.	1.0	28
87	Disappearance of the sigma E transcription factor from the forespore and the SpoIIE phosphatase from the mother cell contributes to establishment of cell-specific gene expression during sporulation in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 1997, 179, 3331-3341.	1.0	111
88	Inactivation of FtsI inhibits constriction of the FtsZ cytokinetic ring and delays the assembly of FtsZ rings at potential division sites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 559-564.	3.3	219
89	Localization of the <i>Escherichia coli</i> cell division protein FtsI (PBP3) to the division site and cell pole. <i>Molecular Microbiology</i> , 1997, 25, 671-681.	1.2	118
90	Use of immunofluorescence to visualize cell-specific gene expression during sporulation in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 1995, 177, 3386-3393.	1.0	181

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91	Visualization of the subcellular location of sporulation proteins in <i>Bacillus subtilis</i> using immunofluorescence microscopy. <i>Molecular Microbiology</i> , 1995, 18, 459-470.	1.2	149
92	Localization of Protein Implicated in Establishment of Cell Type to Sites of Asymmetric Division. <i>Science</i> , 1995, 270, 637-640.	6.0	177
93	Genetic and molecular characterization of the <i>Escherichia coli</i> <i>secD</i> operon and its products. <i>Journal of Bacteriology</i> , 1994, 176, 804-814.	1.0	93
94	Mutations that eliminate the requirement for the vertex protein in bacteriophage T4 capsid assembly. <i>Journal of Molecular Biology</i> , 1992, 224, 601-611.	2.0	11
95	Characterization of <i>degP</i> , a gene required for proteolysis in the cell envelope and essential for growth of <i>Escherichia coli</i> at high temperature. <i>Journal of Bacteriology</i> , 1989, 171, 2689-2696.	1.0	370
96	Expression and secretion of the cloned <i>Pseudomonas aeruginosa</i> exotoxin A by <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 1988, 170, 714-719.	1.0	47
97	Characterization of <i>Pseudomonas aeruginosa</i> mutants with altered piliation. <i>Journal of Bacteriology</i> , 1987, 169, 5663-5667.	1.0	41
98	Chromosome Translocation Inflates <i>Bacillus subtilis</i> Forespores and Impacts Cellular Morphology. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0