

Clay Fuqua

List of Publications by Year in descending order

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104
papers

12,841
citations

50276

46
h-index

30922

102
g-index

112
all docs

112
docs citations

112
times ranked

12237
citing authors

#	ARTICLE	IF	CITATIONS
1	Bacterial competition: surviving and thriving in the microbial jungle. <i>Nature Reviews Microbiology</i> , 2010, 8, 15-25.	28.6	2,085
2	Regulation of Gene Expression by Cell-to-Cell Communication: Acyl-Homoserine Lactone Quorum Sensing. <i>Annual Review of Genetics</i> , 2001, 35, 439-468.	7.6	1,251
3	CENSUS AND CONSENSUS IN BACTERIAL ECOSYSTEMS: The LuxR-LuxI Family of Quorum-Sensing Transcriptional Regulators. <i>Annual Review of Microbiology</i> , 1996, 50, 727-751.	7.3	1,095
4	Listening in on bacteria: acyl-homoserine lactone signalling. <i>Nature Reviews Molecular Cell Biology</i> , 2002, 3, 685-695.	37.0	964
5	Biofilm Formation by Plant-Associated Bacteria. <i>Annual Review of Microbiology</i> , 2007, 61, 401-422.	7.3	704
6	Genome sequence of <i>Silicibacter pomeroyi</i> reveals adaptations to the marine environment. <i>Nature</i> , 2004, 432, 910-913.	27.8	415
7	Biofilm formation in plant-microbe associations. <i>Current Opinion in Microbiology</i> , 2004, 7, 602-609.	5.1	366
8	Broad-host-range expression vectors that carry the l-arabinose-inducible <i>Escherichia coli</i> araBAD promoter and the araC regulator. <i>Gene</i> , 1999, 227, 197-203.	2.2	337
9	Analogues of the Autoinducer 3-Oxo-octanoyl-Homoserine Lactone Strongly Inhibit Activity of the TraR Protein of <i>Agrobacterium tumefaciens</i> . <i>Journal of Bacteriology</i> , 1998, 180, 5398-5405.	2.2	300
10	A simple screening protocol for the identification of quorum signal antagonists. <i>Journal of Microbiological Methods</i> , 2004, 58, 351-360.	1.6	289
11	Self perception in bacteria: quorum sensing with acylated homoserine lactones. <i>Current Opinion in Microbiology</i> , 1998, 1, 183-189.	5.1	281
12	Biofilms on Indwelling Urethral Catheters Produce Quorum-Sensing Signal Molecules In Situ and In Vitro. <i>Applied and Environmental Microbiology</i> , 1998, 64, 3486-3490.	3.1	213
13	Polar growth in the Alphaproteobacterial order Rhizobiales. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 1697-1701.	7.1	195
14	Quorum sensing and motility mediate interactions between <i>Pseudomonas aeruginosa</i> and <i>Agrobacterium tumefaciens</i> in biofilm cocultures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 3828-3833.	7.1	187
15	Motility and Chemotaxis in <i>Agrobacterium tumefaciens</i> Surface Attachment and Biofilm Formation. <i>Journal of Bacteriology</i> , 2007, 189, 8005-8014.	2.2	176
16	Surface contact stimulates the just-in-time deployment of bacterial adhesins. <i>Molecular Microbiology</i> , 2012, 83, 41-51.	2.5	172
17	Localization and Visualization of a <i>Coxiella</i> -Type Symbiont within the Lone Star Tick, <i>Amblyomma americanum</i> . <i>Applied and Environmental Microbiology</i> , 2007, 73, 6584-6594.	3.1	124
18	Quorum Sensing in <i>Rhizobium</i> sp. Strain NGR234 Regulates Conjugal Transfer (tra) Gene Expression and Influences Growth Rate. <i>Journal of Bacteriology</i> , 2003, 185, 809-822.	2.2	119

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19	Chemical Signaling Between Plants and Plant-Pathogenic Bacteria. Annual Review of Phytopathology, 2013, 51, 17-37.	7.8	119
20	The QscR Quorum-Sensing Regulon of <i>Pseudomonas aeruginosa</i> : an Orphan Claims Its Identity. Journal of Bacteriology, 2006, 188, 3169-3171.	2.2	115
21	Phosphorus Limitation Enhances Biofilm Formation of the Plant Pathogen <i>Agrobacterium tumefaciens</i> through the PhoR-PhoB Regulatory System. Journal of Bacteriology, 2004, 186, 4492-4501.	2.2	113
22	Decoding Microbial Chatter: Cell-Cell Communication in Bacteria. Journal of Bacteriology, 2005, 187, 5507-5519.	2.2	111
23	The arthropod, but not the vertebrate host or its environment, dictates bacterial community composition of fleas and ticks. ISME Journal, 2013, 7, 221-223.	9.8	107
24	What's in a name? The semantics of quorum sensing. Trends in Microbiology, 2010, 18, 383-387.	7.7	105
25	The Effect of Cellulose Overproduction on Binding and Biofilm Formation on Roots by <i>Agrobacterium tumefaciens</i> . Molecular Plant-Microbe Interactions, 2005, 18, 1002-1010.	2.6	100
26	Concordance of bacterial communities of two tick species and blood of their shared rodent host. Molecular Ecology, 2015, 24, 2566-2579.	3.9	100
27	Diversity and quorum-sensing signal production of Proteobacteria associated with marine sponges. Environmental Microbiology, 2007, 10, 070907134207003-???.	3.8	97
28	Genetic analysis of <i>Agrobacterium tumefaciens</i> unipolar polysaccharide production reveals complex integrated control of the motile- sessile switch. Molecular Microbiology, 2013, 89, 929-948.	2.5	97
29	Detection of quorum sensing signals in the haloalkaliphilic archaeon <i>Natronococcus occultus</i> . FEMS Microbiology Letters, 2003, 221, 49-52.	1.8	93
30	Mechanisms and regulation of surface interactions and biofilm formation in <i>Agrobacterium</i> . Frontiers in Plant Science, 2014, 5, 176.	3.6	92
31	Evolution of the Insertion-Deletion Mutation Rate Across the Tree of Life. G3: Genes, Genomes, Genetics, 2016, 6, 2583-2591.	1.8	89
32	Localization of OccR-activated and TraR-activated promoters that express two ABC-type permeases and the traR gene of Ti plasmid pTiR10. Molecular Microbiology, 1996, 20, 1199-1210.	2.5	86
33	Mechanisms and regulation of polar surface attachment in <i>Agrobacterium tumefaciens</i> . Current Opinion in Microbiology, 2009, 12, 708-714.	5.1	84
34	A complex LuxR- LuxI type quorum sensing network in a roseobacterial marine sponge symbiont activates flagellar motility and inhibits biofilm formation. Molecular Microbiology, 2012, 85, 916-933.	2.5	75
35	<i>Agrobacterium tumefaciens</i> ExoR Controls Acid Response Genes and Impacts Exopolysaccharide Synthesis, Horizontal Gene Transfer, and Virulence Gene Expression. Journal of Bacteriology, 2014, 196, 3221-3233.	2.2	66
36	Phosphorus limitation increases attachment in <i>Agrobacterium tumefaciens</i> and reveals a conditional functional redundancy in adhesin biosynthesis. Research in Microbiology, 2012, 163, 674-684.	2.1	65

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37	<i>Agrobacterium tumefaciens</i> ExoR represses succinoglycan biosynthesis and is required for biofilm formation and motility. <i>Microbiology (United Kingdom)</i> , 2010, 156, 2670-2681.	1.8	63
38	Diffusion of Bacterial Cells in Porous Media. <i>Biophysical Journal</i> , 2016, 110, 247-257.	0.5	62
39	Inhibition of the <i>Agrobacterium tumefaciens</i> TraR Quorum-sensing Regulator. <i>Journal of Biological Chemistry</i> , 2001, 276, 49449-49458.	3.4	59
40	Biofilms 2012: New Discoveries and Significant Wrinkles in a Dynamic Field. <i>Journal of Bacteriology</i> , 2013, 195, 2947-2958.	2.2	59
41	Antiparallel and Interlinked Control of Cellular Iron Levels by the Irr and RirA Regulators of <i>Agrobacterium tumefaciens</i> . <i>Journal of Bacteriology</i> , 2011, 193, 3461-3472.	2.2	56
42	A cooperative virulence plasmid imposes a high fitness cost under conditions that induce pathogenesis. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 1691-1699.	2.6	56
43	Ecological and evolutionary dynamics of a model facultative pathogen: <i>Agrobacterium</i> and crown gall disease of plants. <i>Environmental Microbiology</i> , 2018, 20, 16-29.	3.8	54
44	Laboratory Maintenance of <i>Agrobacterium</i> . <i>Current Protocols in Microbiology</i> , 2012, 24, Unit3D.1.	6.5	52
45	The FNR-type transcriptional regulator SinR controls maturation of <i>Agrobacterium tumefaciens</i> biofilms. <i>Molecular Microbiology</i> , 2004, 52, 1495-1511.	2.5	51
46	Coordination of Division and Development Influences Complex Multicellular Behavior in <i>Agrobacterium tumefaciens</i> . <i>PLoS ONE</i> , 2013, 8, e56682.	2.5	51
47	Genetic Manipulation of <i>Agrobacterium</i> . <i>Current Protocols in Microbiology</i> , 2012, 25, Unit 3D.2..	6.5	50
48	Acyl-Homoserine Lactone Quorum Sensing in the Roseobacter Clade. <i>International Journal of Molecular Sciences</i> , 2014, 15, 654-669.	4.1	50
49	A Pterin-Dependent Signaling Pathway Regulates a Dual-Function Diguanylate Cyclase-Phosphodiesterase Controlling Surface Attachment in <i>Agrobacterium tumefaciens</i> . <i>MBio</i> , 2015, 6, e00156.	4.1	48
50	Introduction to Bacterial Signals and Chemical Communication. <i>Chemical Reviews</i> , 2011, 111, 1-3.	47.7	45
51	Structural basis for antiactivation in bacterial quorum sensing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 16474-16479.	7.1	43
52	Quorum-sensing antiactivator TraM forms a dimer that dissociates to inhibit TraR. <i>Molecular Microbiology</i> , 2004, 52, 1641-1651.	2.5	39
53	Ecological dynamics and complex interactions of <i>Agrobacterium</i> megaplasmids. <i>Frontiers in Plant Science</i> , 2014, 5, 635.	3.6	36
54	Function and Regulation of <i>Agrobacterium tumefaciens</i> Cell Surface Structures that Promote Attachment. <i>Current Topics in Microbiology and Immunology</i> , 2018, 418, 143-184.	1.1	36

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55	Characterization of multiple novel aerobic polychlorinated biphenyl (PCB)-utilizing bacterial strains indigenous to contaminated tropical African soils. <i>Biodegradation</i> , 2008, 19, 145-159.	3.0	35
56	Passing the baton between laps: adhesion and cohesion in <i>Pseudomonas putida</i> biofilms. <i>Molecular Microbiology</i> , 2010, 77, 533-536.	2.5	33
57	The CckA-ChpT-CtrA Phosphorelay System Is Regulated by Quorum Sensing and Controls Flagellar Motility in the Marine Sponge Symbiont <i>Ruegeria</i> sp. KLH11. <i>PLoS ONE</i> , 2013, 8, e66346.	2.5	33
58	The Ctp Type IVb Pilus Locus of <i>Agrobacterium tumefaciens</i> Directs Formation of the Common Pili and Contributes to Reversible Surface Attachment. <i>Journal of Bacteriology</i> , 2014, 196, 2979-2988.	2.2	32
59	The Essential Role of Spermidine in Growth of <i>Agrobacterium tumefaciens</i> Is Determined by the 1,3-Diaminopropane Moiety. <i>ACS Chemical Biology</i> , 2016, 11, 491-499.	3.4	31
60	Non-additive costs and interactions alter the competitive dynamics of co-occurring ecologically distinct plasmids. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20132173.	2.6	30
61	Pterin function in bacteria. <i>Pteridines</i> , 2017, 28, 23-36.	0.5	28
62	Cell-Cell Influences on Bacterial Community Development in Aquatic Biofilms. <i>Applied and Environmental Microbiology</i> , 2005, 71, 8987-8990.	3.1	27
63	Diversity and functional analysis of <i>luxS</i> genes in <i>Vibrios</i> from marine sponges <i>Mycale laxissima</i> and <i>Ircinia strobilina</i> . <i>ISME Journal</i> , 2011, 5, 1505-1516.	9.8	27
64	Discrete Responses to Limitation for Iron and Manganese in <i>Agrobacterium tumefaciens</i> : Influence on Attachment and Biofilm Formation. <i>Journal of Bacteriology</i> , 2016, 198, 816-829.	2.2	27
65	Large Deletions in the pAtC58 Megaplasmid of <i>Agrobacterium tumefaciens</i> Can Confer Reduced Carriage Cost and Increased Expression of Virulence Genes. <i>Genome Biology and Evolution</i> , 2013, 5, 1353-1364.	2.5	25
66	Spermidine Inversely Influences Surface Interactions and Planktonic Growth in <i>Agrobacterium tumefaciens</i> . <i>Journal of Bacteriology</i> , 2016, 198, 2682-2691.	2.2	25
67	Growth on dichlorobiphenyls with chlorine substitution on each ring by bacteria isolated from contaminated African soils. <i>Applied Microbiology and Biotechnology</i> , 2007, 74, 484-492.	3.6	24
68	RESOURCE AND COMPETITIVE DYNAMICS SHAPE THE BENEFITS OF PUBLIC GOODS COOPERATION IN A PLANT PATHOGEN. <i>Evolution; International Journal of Organic Evolution</i> , 2012, 66, 1953-1965.	2.3	24
69	Identification and sequence analysis of an Mhc class II B gene in a marsupial (<i>Monodelphis domestica</i>). <i>Immunogenetics</i> , 1999, 49, 461-463.	2.4	22
70	Association of Host and Microbial Species Diversity across Spatial Scales in Desert Rodent Communities. <i>PLoS ONE</i> , 2014, 9, e109677.	2.5	21
71	A solo <i>luxI</i> -type gene directs acylhomoserine lactone synthesis and contributes to motility control in the marine sponge symbiont <i>Ruegeria</i> sp. KLH11. <i>Microbiology (United Kingdom)</i> , 2015, 161, 50-56.	1.8	21
72	Novel Pseudotaxis Mechanisms Improve Migration of Straight-Swimming Bacterial Mutants Through a Porous Environment. <i>MBio</i> , 2015, 6, e00005.	4.1	20

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73	Inhibition and dispersal of <i>Agrobacterium tumefaciens</i> biofilms by a small diffusible <i>Pseudomonas aeruginosa</i> exoproduct(s). <i>Archives of Microbiology</i> , 2012, 194, 391-403.	2.2	19
74	Multiple Flagellin Proteins Have Distinct and Synergistic Roles in <i>Agrobacterium tumefaciens</i> Motility. <i>Journal of Bacteriology</i> , 2018, 200, .	2.2	18
75	Conformation and dynamic interactions of the multipartite genome in <i>Agrobacterium tumefaciens</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	17
76	Regulatory Linkages between Flagella and Surfactant during Swarming Behavior: Lubricating the Flagellar Propeller?. <i>Journal of Bacteriology</i> , 2012, 194, 1283-1286.	2.2	15
77	Phenotypic Analyses of <i>Agrobacterium</i> . <i>Current Protocols in Microbiology</i> , 2012, 25, Unit 3D.3..	6.5	15
78	Identification and Characterization of a Second Quorum-Sensing System in <i>Agrobacterium tumefaciens</i> A6. <i>Journal of Bacteriology</i> , 2014, 196, 1403-1411.	2.2	15
79	Biofilms 2018: a Diversity of Microbes and Mechanisms. <i>Journal of Bacteriology</i> , 2019, 201, .	2.2	14
80	Genome Sequence of <i>Ruegeria</i> sp. Strain KLH11, an <i>N</i> -Acylhomoserine Lactone-Producing Bacterium Isolated from the Marine Sponge <i>Mycale laxissima</i> . <i>Journal of Bacteriology</i> , 2011, 193, 5011-5012.	2.2	13
81	Crystal Structure and Mechanism of TraM2, a Second Quorum-Sensing Antiaactivator of <i>Agrobacterium tumefaciens</i> Strain A6. <i>Journal of Bacteriology</i> , 2006, 188, 8244-8251.	2.2	11
82	The <i>Agrobacterium tumefaciens</i> Transcription Factor BlcR Is Regulated via Oligomerization. <i>Journal of Biological Chemistry</i> , 2011, 286, 20431-20440.	3.4	11
83	From endosymbionts to host communities: factors determining the reproductive success of arthropod vectors. <i>Oecologia</i> , 2017, 184, 859-871.	2.0	11
84	The <i>Agrobacterium tumefaciens</i> CheY-like protein ClaR regulates biofilm formation. <i>Microbiology (United Kingdom)</i> , 2017, 163, 1680-1691.	1.8	11
85	Motility control through an anti-activation mechanism in <i>Agrobacterium tumefaciens</i> . <i>Molecular Microbiology</i> , 2021, 116, 1281-1297.	2.5	10
86	[1] Methods for studying bacterial biofilms associated with plants. <i>Methods in Enzymology</i> , 2001, 337, 3-18.	1.0	9
87	Reciprocal control of motility and biofilm formation by the PdhS2 two-component sensor kinase of <i>Agrobacterium tumefaciens</i> . <i>Microbiology (United Kingdom)</i> , 2019, 165, 146-162.	1.8	9
88	Acylated Homoserine Lactone Signaling in Marine Bacterial Systems. , 0, , 251-272.		9
89	Dual adhesive unipolar polysaccharides synthesized by overlapping biosynthetic pathways in <i>Agrobacterium tumefaciens</i> . <i>Molecular Microbiology</i> , 2022, 117, 1023-1047.	2.5	9
90	Centromere Interactions Promote the Maintenance of the Multipartite Genome in <i>Agrobacterium tumefaciens</i> . <i>MBio</i> , 2022, 13, e0050822.	4.1	9

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91	New Twists and Turns in Bacterial Locomotion and Signal Transduction. <i>Journal of Bacteriology</i> , 2019, 201, .	2.2	7
92	Co-dependent and Interdigitated: Dual Quorum Sensing Systems Regulate Conjugative Transfer of the Ti Plasmid and the At Megaplasmid in <i>Agrobacterium tumefaciens</i> 15955. <i>Frontiers in Microbiology</i> , 2020, 11, 605896.	3.5	7
93	A dicentric bacterial chromosome requires XerC/D site-specific recombinases for resolution. <i>Current Biology</i> , 2022, 32, 3609-3618.e7.	3.9	6
94	Destabilization of the Tumor-Inducing Plasmid from an Octopine-Type <i>Agrobacterium tumefaciens</i> Lineage Drives a Large Deletion in the Co-resident At Megaplasmid. <i>G3: Genes, Genomes, Genetics</i> , 2019, 9, 3489-3500.	1.8	5
95	Simple and economical biosensors for distinguishing <i>Agrobacterium</i> -mediated plant galls from nematode-mediated root knots. <i>Scientific Reports</i> , 2019, 9, 17961.	3.3	5
96	Enzymatic and Mutational Analysis of the PruA Pteridine Reductase Required for Pterin-Dependent Control of Biofilm Formation in <i>Agrobacterium tumefaciens</i> . <i>Journal of Bacteriology</i> , 2020, 202, .	2.2	5
97	Strains of <i>Ehrlichia chaffeensis</i> in Southern Indiana, Kentucky, Mississippi, and North Carolina. <i>Journal of Medical Entomology</i> , 2009, 46, 1468-1473.	1.8	4
98	The quorum sensing transcriptional regulator TraR has separate binding sites for DNA and the anti-activator. <i>Biochemical and Biophysical Research Communications</i> , 2012, 418, 396-401.	2.1	4
99	<i>Agrobacterium</i> -Host Attachment and Biofilm Formation. , 2008, , 243-277.		4
100	In vivo analysis of DNA binding and ligand interaction of BlcR, an IclR-type repressor from <i>Agrobacterium tumefaciens</i> . <i>Microbiology (United Kingdom)</i> , 2013, 159, 814-822.	1.8	3
101	Promoter-probe cassettes with the <i>gusA</i> (β -glucuronidase) reporter gene and several different antibiotic resistance markers. <i>Journal of Microbiological Methods</i> , 2005, 60, 281-283.	1.6	2
102	Short, Rich, and Powerful: a New Family of Arginine-Rich Small Proteins Have Outsized Impact in <i>Agrobacterium tumefaciens</i> . <i>Journal of Bacteriology</i> , 2020, 202, .	2.2	1
103	Molecular Mechanisms of Quorum Sensing. , 0, , 361-384.		0
104	A complex <i>LuxR</i> - <i>LuxI</i> type quorum sensing network in a roseobacterial marine sponge symbiont activates flagellar motility and inhibits biofilm formation. <i>Molecular Microbiology</i> , 2012, 86, 500-500.	2.5	0