

Cameron R Currie

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

7,670
citations

53794

45
h-index

56724

83
g-index

104
all docs

104
docs citations

104
times ranked

6714
citing authors

#	ARTICLE	IF	CITATIONS
1	Fungus-growing ants use antibiotic-producing bacteria to control garden parasites. <i>Nature</i> , 1999, 398, 701-704.	27.8	705
2	Bacterial Protection of Beetle-Fungus Mutualism. <i>Science</i> , 2008, 322, 63-63.	12.6	411
3	Dentigerumycin: a bacterial mediator of an ant-fungus symbiosis. <i>Nature Chemical Biology</i> , 2009, 5, 391-393.	8.0	360
4	Symbiotic Nitrogen Fixation in the Fungus Gardens of Leaf-Cutter Ants. <i>Science</i> , 2009, 326, 1120-1123.	12.6	310
5	Coevolved Crypts and Exocrine Glands Support Mutualistic Bacteria in Fungus-Growing Ants. <i>Science</i> , 2006, 311, 81-83.	12.6	296
6	A Community of Ants, Fungi, and Bacteria: A Multilateral Approach to Studying Symbiosis. <i>Annual Review of Microbiology</i> , 2001, 55, 357-380.	7.3	272
7	Evolution and Ecology of <i>Actinobacteria</i> and Their Bioenergy Applications. <i>Annual Review of Microbiology</i> , 2016, 70, 235-254.	7.3	249
8	Weeding and grooming of pathogens in agriculture by ants. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2001, 268, 1033-1039.	2.6	246
9	The antimicrobial potential of <i>Streptomyces</i> from insect microbiomes. <i>Nature Communications</i> , 2019, 10, 516.	12.8	222
10	An Insect Herbivore Microbiome with High Plant Biomass-Degrading Capacity. <i>PLoS Genetics</i> , 2010, 6, e1001129.	3.5	213
11	Minimization of chloroplast contamination in 16S rRNA gene pyrosequencing of insect herbivore bacterial communities. <i>Journal of Microbiological Methods</i> , 2013, 95, 149-155.	1.6	181
12	Cellulose-degrading bacteria associated with the invasive woodwasp <i>Sirex noctilio</i> . <i>ISME Journal</i> , 2011, 5, 1323-1331.	9.8	154
13	Specificity in the symbiotic association between fungus-growing ants and protective <i>Pseudonocardia</i> bacteria. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 1814-1822.	2.6	135
14	Metagenomic and metaproteomic insights into bacterial communities in leaf-cutter ant fungus gardens. <i>ISME Journal</i> , 2012, 6, 1688-1701.	9.8	126
15	Chemical Analyses of Wasp-Associated <i>Streptomyces</i> Bacteria Reveal a Prolific Potential for Natural Products Discovery. <i>PLoS ONE</i> , 2011, 6, e16763.	2.5	125
16	Phylogenetic analysis of mutualistic filamentous bacteria associated with fungus-growing ants. <i>Canadian Journal of Microbiology</i> , 2005, 51, 441-446.	1.7	122
17	Defense contracts: molecular protection in insect-microbe symbioses. <i>Chemical Society Reviews</i> , 2018, 47, 1638-1651.	38.1	122
18	Microbes are trophic analogs of animals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15119-15124.	7.1	113

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19	Lateral Gene Transfer Dynamics in the Ancient Bacterial Genus <i>Streptomyces</i> . MBio, 2017, 8, .	4.1	110
20	Aerobic deconstruction of cellulosic biomass by an insect-associated <i>Streptomyces</i> . Scientific Reports, 2013, 3, 1030.	3.3	107
21	Lignocellulose pretreatment in a fungus-cultivating termite. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4709-4714.	7.1	107
22	A marine microbiome antifungal targets urgent-threat drug-resistant fungi. Science, 2020, 370, 974-978.	12.6	102
23	Coculture of Marine Invertebrate-Associated Bacteria and Interdisciplinary Technologies Enable Biosynthesis and Discovery of a New Antibiotic, Keyicin. ACS Chemical Biology, 2017, 12, 3093-3102.	3.4	98
24	Functional metagenomics reveals abundant polysaccharide-degrading gene clusters and cellobiose utilization pathways within gut microbiota of a wood-feeding higher termite. ISME Journal, 2019, 13, 104-117.	9.8	93
25	SANDPUMA: ensemble predictions of nonribosomal peptide chemistry reveal biosynthetic diversity across <i>Actinobacteria</i> . Bioinformatics, 2017, 33, 3202-3210.	4.1	89
26	Selvamicin, an atypical antifungal polyene from two alternative genomic contexts. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12940-12945.	7.1	88
27	Variable genetic architectures produce virtually identical molecules in bacterial symbionts of fungus-growing ants. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13150-13154.	7.1	86
28	Stingless Bee Larvae Require Fungal Steroid to Pupate. Scientific Reports, 2018, 8, 1122.	3.3	85
29	Microbial Community Structure of Leaf-Cutter Ant Fungus Gardens and Refuse Dumps. PLoS ONE, 2010, 5, e9922.	2.5	84
30	Natalamycin A, an ansamycin from a termite-associated <i>Streptomyces</i> sp.. Chemical Science, 2014, 5, 4333-4338.	7.4	83
31	A community resource for paired genomic and metabolomic data mining. Nature Chemical Biology, 2021, 17, 363-368.	8.0	81
32	Variation in <i>Pseudonocardia</i> antibiotic defence helps govern parasite-induced morbidity in <i>Acromyrmex</i> leaf-cutting ants. Environmental Microbiology Reports, 2010, 2, 534-540.	2.4	77
33	Bacterial symbionts in agricultural systems provide a strategic source for antibiotic discovery. Journal of Antibiotics, 2014, 67, 53-58.	2.0	77
34	Emerging evolutionary paradigms in antibiotic discovery. Journal of Industrial Microbiology and Biotechnology, 2019, 46, 257-271.	3.0	76
35	Convergent evolution of complex structures for ant-bacterial defensive symbiosis in fungus-farming ants. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 10720-10725.	7.1	74
36	Small genome of the fungus <i>Escovopsis weberi</i> , a specialized disease agent of ant agriculture. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3567-3572.	7.1	71

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37	Cellulolytic <i>Streptomyces</i> Strains Associated with Herbivorous Insects Share a Phylogenetically Linked Capacity To Degrade Lignocellulose. <i>Applied and Environmental Microbiology</i> , 2014, 80, 4692-4701.	3.1	70
38	Evolution of substrate specificity in bacterial AA10 lytic polysaccharide monooxygenases. <i>Biotechnology for Biofuels</i> , 2014, 7, 109.	6.2	69
39	Evolution of High Cellulolytic Activity in Symbiotic <i>Streptomyces</i> through Selection of Expanded Gene Content and Coordinated Gene Expression. <i>PLoS Biology</i> , 2016, 14, e1002475.	5.6	68
40	Pollen-borne microbes shape bee fitness. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20182894.	2.6	67
41	Tryptorubin A: A Polycyclic Peptide from a Fungus-Derived <i>Streptomyces</i> . <i>Journal of the American Chemical Society</i> , 2017, 139, 12899-12902.	13.7	58
42	Competition among Nasal Bacteria Suggests a Role for Siderophore-Mediated Interactions in Shaping the Human Nasal Microbiota. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	3.1	57
43	Pathogenicity of <i>Escovopsis weberi</i> : The Parasite of the Attine Ant-Microbe Symbiosis Directly Consumes the Ant-Cultivated Fungus. <i>Mycologia</i> , 2004, 96, 955.	1.9	51
44	The Evolutionary Innovation of Nutritional Symbioses in Leaf-Cutter Ants. <i>Insects</i> , 2012, 3, 41-61.	2.2	51
45	Pyrazines from bacteria and ants: convergent chemistry within an ecological niche. <i>Scientific Reports</i> , 2018, 8, 2595.	3.3	51
46	Pathogenicity of <i>Escovopsis weberi</i> : The parasite of the attine ant-microbe symbiosis directly consumes the ant-cultivated fungus. <i>Mycologia</i> , 2004, 96, 955-9.	1.9	46
47	Antagonistic Bacterial Interactions Help Shape Host-Symbiont Dynamics within the Fungus-Growing Ant-Microbe Mutualism. <i>PLoS ONE</i> , 2007, 2, e960.	2.5	44
48	A Rebeccamycin Analog Provides Plasmid-Encoded Niche Defense. <i>Journal of the American Chemical Society</i> , 2015, 137, 14272-14274.	13.7	44
49	Coordination of fungal biofilm development by extracellular vesicle cargo. <i>Nature Communications</i> , 2021, 12, 6235.	12.8	42
50	Taxonomic and Metabolic Incongruence in the Ancient Genus <i>Streptomyces</i> . <i>Frontiers in Microbiology</i> , 2019, 10, 2170.	3.5	40
51	Bacteria influence mountain pine beetle brood development through interactions with symbiotic and antagonistic fungi: implications for climate-driven host range expansion. <i>Oecologia</i> , 2015, 179, 467-485.	2.0	39
52	The fungal cultivar of leaf-cutter ants produces specific enzymes in response to different plant substrates. <i>Molecular Ecology</i> , 2016, 25, 5795-5805.	3.9	37
53	Symbiont-Mediated Digestion of Plant Biomass in Fungus-Farming Insects. <i>Annual Review of Entomology</i> , 2021, 66, 297-316.	11.8	37
54	Interaction between Workers during a Short Time Window Is Required for Bacterial Symbiont Transmission in <i>Acromyrmex</i> Leaf-Cutting Ants. <i>PLoS ONE</i> , 2014, 9, e103269.	2.5	36

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55	The Population Structure of Antibiotic-Producing Bacterial Symbionts of <i>Apterostigma dentigerum</i> Ants: Impacts of Coevolution and Multipartite Symbiosis. <i>American Naturalist</i> , 2012, 180, 604-617.	2.1	35
56	Linear Peptides Are the Major Products of a Biosynthetic Pathway That Encodes for Cyclic Depsipeptides. <i>Organic Letters</i> , 2017, 19, 1772-1775.	4.6	35
57	Biominer armor in leaf-cutter ants. <i>Nature Communications</i> , 2020, 11, 5792.	12.8	34
58	Evidence for Widespread Associations between Neotropical Hymenopteran Insects and Actinobacteria. <i>Frontiers in Microbiology</i> , 2017, 8, 2016.	3.5	31
59	Gut Microbial and Metabolic Responses to <i>Salmonella enterica</i> Serovar Typhimurium and <i>Candida albicans</i> . <i>MBio</i> , 2018, 9, .	4.1	31
60	Fungus-growing insects host a distinctive microbiota apparently adapted to the fungiculture environment. <i>Scientific Reports</i> , 2020, 10, 12384.	3.3	31
61	Laryngotracheal Microbiota in Adult Laryngotracheal Stenosis. <i>MSphere</i> , 2019, 4, .	2.9	30
62	Bacteria Contribute to Plant Secondary Compound Degradation in a Generalist Herbivore System. <i>MBio</i> , 2020, 11, .	4.1	30
63	Cellulose-Enriched Microbial Communities from Leaf-Cutter Ant (<i>Atta colombica</i>) Refuse Dumps Vary in Taxonomic Composition and Degradation Ability. <i>PLoS ONE</i> , 2016, 11, e0151840.	2.5	29
64	Enrichment and Broad Representation of Plant Biomass-Degrading Enzymes in the Specialized Hyphal Swellings of <i>Leucoagaricus gongylophorus</i> , the Fungal Symbiont of Leaf-Cutter Ants. <i>PLoS ONE</i> , 2015, 10, e0134752.	2.5	28
65	Substrate Shift Reveals Roles for Members of Bacterial Consortia in Degradation of Plant Cell Wall Polymers. <i>Frontiers in Microbiology</i> , 2018, 9, 364.	3.5	27
66	Pyonitrins A-D: Chimeric Natural Products Produced by <i>Pseudomonas protegens</i> . <i>Journal of the American Chemical Society</i> , 2019, 141, 17098-17101.	13.7	27
67	Microbial community modulates growth of symbiotic fungus required for stingless bee metamorphosis. <i>PLoS ONE</i> , 2019, 14, e0219696.	2.5	26
68	Microbial Diversity Associated with the Pollen Stores of Captive-Bred Bumble Bee Colonies. <i>Insects</i> , 2020, 11, 250.	2.2	25
69	Imaging with Mass Spectrometry of Bacteria on the Exoskeleton of Fungus-Growing Ants. <i>ACS Chemical Biology</i> , 2017, 12, 1980-1985.	3.4	24
70	Specialized Metabolites Reveal Evolutionary History and Geographic Dispersion of a Multilateral Symbiosis. <i>ACS Central Science</i> , 2021, 7, 292-299.	11.3	23
71	Cycloheximide-Producing <i>Streptomyces</i> Associated With <i>Xyleborinus saxesenii</i> and <i>Xyleborus affinis</i> Fungus-Farming Ambrosia Beetles. <i>Frontiers in Microbiology</i> , 2020, 11, 562140.	3.5	22
72	Local Adaptation of Bacterial Symbionts within a Geographic Mosaic of Antibiotic Coevolution. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	3.1	21

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73	Major changes in microbial diversity and community composition across gut sections of a juvenile <i>Panochlora</i> cockroach. <i>PLoS ONE</i> , 2017, 12, e0177189.	2.5	20
74	Madurastatin D1 and D2, Oxazoline Containing Siderophores Isolated from an <i>Actinomadura</i> sp. <i>Organic Letters</i> , 2019, 21, 6275-6279.	4.6	19
75	Biochemical Properties and Atomic Resolution Structure of a Proteolytically Processed \hat{I}^2 -Mannanase from Cellulolytic <i>Streptomyces</i> sp. <i>SirexAA-E</i> . <i>PLoS ONE</i> , 2014, 9, e94166.	2.5	18
76	Experimental Microbiomes: Models Not to Scale. <i>MSystems</i> , 2019, 4, .	3.8	17
77	Chemical Exchanges between Multilateral Symbionts. <i>Organic Letters</i> , 2021, 23, 1648-1652.	4.6	16
78	Pollen <i>Streptomyces</i> Produce Antibiotic That Inhibits the Honey Bee Pathogen <i>Paenibacillus</i> larvae. <i>Frontiers in Microbiology</i> , 2021, 12, 632637.	3.5	15
79	Antileishmanial macrolides from ant-associated <i>Streptomyces</i> sp. ISID311. <i>Bioorganic and Medicinal Chemistry</i> , 2021, 32, 116016.	3.0	14
80	Bacillibactins E and F from a Marine Sponge-Associated <i>Bacillus</i> sp.. <i>Journal of Natural Products</i> , 2021, 84, 136-141.	3.0	13
81	Insights Into the Ecological Role of <i>Pseudomonas</i> spp. in an Ant-plant Symbiosis. <i>Frontiers in Microbiology</i> , 2021, 12, 621274.	3.5	13
82	A high-quality carabid genome assembly provides insights into beetle genome evolution and cold adaptation. <i>Molecular Ecology Resources</i> , 2021, 21, 2145-2165.	4.8	13
83	Empirical, Metagenomic, and Computational Techniques Illuminate the Mechanisms by which Fungicides Compromise Bee Health. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	12
84	MS-Derived Isotopic Fine Structure Reveals Forazoline A as a Thioketone-Containing Marine-Derived Natural Product. <i>Organic Letters</i> , 2020, 22, 1275-1279.	4.6	12
85	Unique Honey Bee (<i>Apis mellifera</i>) Hive Component-Based Communities as Detected by a Hybrid of Phospholipid Fatty-Acid and Fatty-Acid Methyl Ester Analyses. <i>PLoS ONE</i> , 2015, 10, e0121697.	2.5	12
86	Symbiont-Mediated Protection of <i>Acromyrmex</i> Leaf-Cutter Ants from the Entomopathogenic Fungus <i>Metarhizium anisopliae</i> . <i>MBio</i> , 2021, 12, e0188521.	4.1	12
87	From Plants to Ants: Fungal Modification of Leaf Lipids for Nutrition and Communication in the Leaf-Cutter Ant Fungal Garden Ecosystem. <i>MSystems</i> , 2021, 6, .	3.8	11
88	Convergent evolution of signal-structure interfaces for maintaining symbioses. <i>Current Opinion in Microbiology</i> , 2019, 50, 71-78.	5.1	10
89	Whole-Genome Sequence of <i>Bacillus</i> sp. SDL11, Isolated from the Social Bee <i>Scaptotrigona depilis</i> . <i>Genome Announcements</i> , 2016, 4, .	0.8	9
90	Metagenomics Reveals Diet-Specific Specialization of Bacterial Communities in Fungus Gardens of Grass- and Dicot-Cutter Ants. <i>Frontiers in Microbiology</i> , 2020, 11, 570770.	3.5	8

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91	Experimental Warming Reduces Survival, Cold Tolerance, and Gut Prokaryotic Diversity of the Eastern Subterranean Termite, <i>Reticulitermes flavipes</i> (Kollar). <i>Frontiers in Microbiology</i> , 2021, 12, 632715.	3.5	8
92	<i>Burkholderia</i> from Fungus Gardens of Fungus-Growing Ants Produces Antifungals That Inhibit the Specialized Parasite <i>Escovopsis</i> . <i>Applied and Environmental Microbiology</i> , 2021, 87, e0017821.	3.1	8
93	Bacillimidazoles A ⁺ F, Imidazolium-Containing Compounds Isolated from a Marine Bacillus. <i>Marine Drugs</i> , 2022, 20, 43.	4.6	8
94	Complete Genome Sequence of <i>Rhodococcus</i> sp. Strain WMMA185, a Marine Sponge-Associated Bacterium. <i>Genome Announcements</i> , 2016, 4, .	0.8	6
95	Mannose- and Mannobiose-Specific Responses of the Insect-Associated Cellulolytic Bacterium <i>Streptomyces</i> sp. Strain SirexAA-E. <i>Applied and Environmental Microbiology</i> , 2021, 87, e0271920.	3.1	6
96	High Throughput Co-culture Assays for the Investigation of Microbial Interactions. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	5
97	Long-Term Cellulose Enrichment Selects for Highly Cellulolytic Consortia and Competition for Public Goods. <i>MSystems</i> , 2022, 7, e0151921.	3.8	5
98	Draft Genome Sequence of <i>Micromonospora</i> sp. Strain WMMB235, a Marine Ascidian-Associated Bacterium. <i>Genome Announcements</i> , 2017, 5, .	0.8	3
99	Complete Genome Sequence of <i>Dietzia</i> sp. Strain WMMA184, a Marine Coral-Associated Bacterium. <i>Genome Announcements</i> , 2018, 6, .	0.8	3
100	Biogeography of Bacterial Communities and Specialized Metabolism in Human Aerodigestive Tract Microbiomes. <i>Microbiology Spectrum</i> , 2021, 9, e0166921.	3.0	3
101	Symbiosis research, technology, and education: Proceedings of the 6th International Symbiosis Society Congress held in Madison Wisconsin, USA, August 2009. <i>Symbiosis</i> , 2010, 51, 1-12.	2.3	1
102	Draft Genome Sequence of <i>Micromonospora</i> sp. Strain WMMA1996, a Marine Sponge-Associated Bacterium. <i>Genome Announcements</i> , 2018, 6, .	0.8	1