

# Ulrich G Mueller

## List of Publications by Year in descending order

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67  
papers

5,133  
citations

87888

38  
h-index

98798

67  
g-index

69  
all docs

69  
docs citations

69  
times ranked

4106  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microbiome breeding: conceptual and practical issues. Trends in Microbiology, 2022, 30, 997-1011.	7.7	24
2	Artificial Selection on Microbiomes To Breed Microbiomes That Confer Salt Tolerance to Plants. MSystems, 2021, 6, e0112521.	3.8	36
3	High diversity and multiple invasions to North America by fungi grown by the northern-most Trachymyrmex and Mycetomoellerius ant species. Fungal Ecology, 2020, 44, 100878.	1.6	11
4	Sensory ecology of the frog-eating bat, <i>Trachops cirrhosus</i> , from DNA metabarcoding and behavior. Behavioral Ecology, 2020, 31, 1420-1428.	2.2	14
5	The molecular phylogenetics of <i>Trachymyrmex</i> Forel ants and their fungal cultivars provide insights into the origin and coevolutionary history of higher-attine ant agriculture. Systematic Entomology, 2019, 44, 939-956.	3.9	50
6	Landscape genomics of an obligate mutualism: Concordant and discordant population structures between the leafcutter ant <i>Atta texana</i> and its two main fungal symbiont types. Molecular Ecology, 2019, 28, 2831-2845.	3.9	18
7	Potential Distribution of Six North American Higher-Attine Fungus-Farming Ant (Hymenoptera: Tj ETQq1 1 0.784314rgBT /Overlock 10 1.5 14		
8	Phylogenetic patterns of ant-fungus associations indicate that farming strategies, not only a superior fungal cultivar, explain the ecological success of leafcutter ants. Molecular Ecology, 2018, 27, 2414-2434.	3.9	68
9	Effects of substrate, ant and fungal species on plant fiber degradation in a fungus-gardening ant symbiosis. Journal of Insect Physiology, 2017, 98, 301-308.	2.0	9
10	Partitioning the effects of mating and nuptial feeding on the microbiome in gift-giving insects. Environmental Microbiology Reports, 2017, 9, 104-112.	2.4	9
11	Biogeography of mutualistic fungi cultivated by leafcutter ants. Molecular Ecology, 2017, 26, 6921-6937.	3.9	49
12	Flowers and Wild Megachilid Bees Share Microbes. Microbial Ecology, 2017, 73, 188-200.	2.8	128
13	Nuclear populations of the multinucleate fungus of leafcutter ants can be dekarotized and recombined to manipulate growth of nutritive hyphal nodules harvested by the ants. Mycologia, 2017, 109, 1-15.	1.9	6
14	Spatial Structure of the Mormon Cricket Gut Microbiome and its Predicted Contribution to Nutrition and Immune Function. Frontiers in Microbiology, 2017, 8, 801.	3.5	37
15	Bacterial microbiomes from vertically transmitted fungal inocula of the leaf-cutting ant <i>Atta texana</i> . Environmental Microbiology Reports, 2016, 8, 630-640.	2.4	50
16	Assessing the role of $\beta$ -ocimene in regulating foraging behavior of the honey bee, <i>Apis mellifera</i> . Apidologie, 2016, 47, 135-144.	2.0	16
17	Gone to Texas: phylogeography of two <i>Trachymyrmex</i> (Hymenoptera: Formicidae) species along the southeastern coastal plain of North America. Biological Journal of the Linnean Society, 2015, 114, 689-698.	1.6	21
18	Blind trust in unblinded observation in Ecology, Evolution, and Behavior. Frontiers in Ecology and Evolution, 2015, 3, .	2.2	50

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19	Specialization and group size: brain and behavioural correlates of colony size in ants lacking morphological castes. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20142502.	2.6	46
20	Sexual transmission of beneficial microbes. <i>Trends in Ecology and Evolution</i> , 2015, 30, 438-440.	8.7	23
21	Bacterial community composition and diversity in an ancestral ant fungus symbiosis. <i>FEMS Microbiology Ecology</i> , 2015, 91, fiv073.	2.7	44
22	The Most Relictual Fungus-Farming Ant Species Cultivates the Most Recently Evolved and Highly Domesticated Fungal Symbiont Species. <i>American Naturalist</i> , 2015, 185, 693-703.	2.1	45
23	Shared <i>Escovopsis</i> parasites between leaf-cutting and non-leaf-cutting ants in the higher attine fungus-growing ant symbiosis. <i>Royal Society Open Science</i> , 2015, 2, 150257.	2.4	23
24	Metabolism and the Rise of Fungus Cultivation by Ants. <i>American Naturalist</i> , 2014, 184, 364-373.	2.1	26
25	Ant-fungal species combinations engineer physiological activity of fungus gardens. <i>Journal of Experimental Biology</i> , 2014, 217, 2540-7.	1.7	16
26	Intraspecific variation and emendation of <i>Hannaella kunmingensis</i> . <i>Mycological Progress</i> , 2013, 12, 157-165.	1.4	6
27	Fungus-gardening ants prefer native fungal species: do ants control their crops?. <i>Behavioral Ecology</i> , 2012, 23, 1250-1256.	2.2	15
28	Symbiont recruitment versus ant-symbiont co-evolution in the attine ant-microbe symbiosis. <i>Current Opinion in Microbiology</i> , 2012, 15, 269-277.	5.1	60
29	Symbiont fidelity and the origin of species in fungus-growing ants. <i>Nature Communications</i> , 2012, 3, 840.	12.8	57
30	Fitness consequences of nest infiltration by the mutualist-exploiter <i>Megalomyrmex adamsae</i> . <i>Ecological Entomology</i> , 2012, 37, 453-462.	2.2	19
31	Cryptic sexual populations account for genetic diversity and ecological success in a widely distributed, asexual fungus-growing ant. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 12366-12371.	7.1	51
32	Nesting Biology and Fungiculture of the Fungus-Growing Ant, <i>Mycetagroicus cerradensis</i> : New Light on the Origin of Higher Attine Agriculture. <i>Journal of Insect Science</i> , 2011, 11, 1-14.	1.5	18
33	Evolution of cold-tolerant fungal symbionts permits winter fungiculture by leafcutter ants at the northern frontier of a tropical ant-fungus symbiosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 4053-4056.	7.1	85
34	Ecology of microfungal communities in gardens of fungus-growing ants (Hymenoptera: Formicidae): a year-long survey of three species of attine ants in Central Texas. <i>FEMS Microbiology Ecology</i> , 2011, 78, 244-255.	2.7	81
35	Frontier mutualism: coevolutionary patterns at the northern range limit of the leaf-cutter ant-fungus symbiosis. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 3050-3059.	2.6	40
36	Microbiomes of ant castes implicate new microbial roles in the fungus-growing ant <i>Trachymyrmex septentrionalis</i> . <i>Scientific Reports</i> , 2011, 1, 204.	3.3	63

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37	Construction of chimaeric gardens through fungal intercropping: a symbiont choice experiment in the leafcutter ant <i>Atta texana</i> (Attini, Formicidae). <i>Behavioral Ecology and Sociobiology</i> , 2010, 64, 1125-1133.	1.4	15
38	Placement of attine ant-associated <i>Pseudonocardia</i> in a global <i>Pseudonocardia</i> phylogeny ( <i>Pseudonocardiaceae</i> , <i>Actinomycetales</i> ): a test of two symbiont-association models. <i>Antonie Van Leeuwenhoek</i> , 2010, 98, 195-212.	1.7	34
39	EVOLUTIONARY TRANSITIONS IN ENZYME ACTIVITY OF ANT FUNGUS GARDENS. <i>Evolution; International Journal of Organic Evolution</i> , 2010, 64, 2055-69.	2.3	63
40	Comparative Dating of Attine Ant and Lepiotaceous Cultivar Phylogenies Reveals Coevolutionary Synchrony and Discord. <i>American Naturalist</i> , 2010, 175, E126-E133.	2.1	75
41	Monoculture of Leafcutter Ant Gardens. <i>PLoS ONE</i> , 2010, 5, e12668.	2.5	60
42	Sperm length evolution in the fungus-growing ants. <i>Behavioral Ecology</i> , 2009, 20, 38-45.	2.2	18
43	Free-living fungal symbionts ( <i>Lepiotaceae</i> ) of fungus-growing ants (Attini: <i>Formicidae</i> ). <i>Mycologia</i> , 2009, 101, 206-210.	1.9	59
44	Generalized antifungal activity and 454-screening of <i>Pseudonocardia</i> and <i>Amycolatopsis</i> bacteria in nests of fungus-growing ants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 17805-17810.	7.1	199
45	Antagonistic interactions between garden yeasts and microfungal garden pathogens of leaf-cutting ants. <i>Antonie Van Leeuwenhoek</i> , 2009, 96, 331-342.	1.7	73
46	Phylogeny of leafcutter ants in the genus <i>Atta</i> Fabricius ( <i>Formicidae</i> : <i>Attini</i> ) based on mitochondrial and nuclear DNA sequences. <i>Molecular Phylogenetics and Evolution</i> , 2009, 51, 427-437.	2.7	51
47	No sex in fungus-farming ants or their crops. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 2611-2616.	2.6	44
48	Polymorphic microsatellite markers for the symbiotic fungi cultivated by leaf cutter ants (Attini.) <i>Tj ETQqO 0 0 rgBT /Qverlock 10 Tf 50 30</i>	4.8	16
49	COEVOLUTION BETWEEN ATTINE ANTS AND ACTINOMYCETE BACTERIA: A REEVALUATION. <i>Evolution; International Journal of Organic Evolution</i> , 2008, 62, 2894-2912.	2.3	118
50	Phylogeography of post-Pleistocene population expansion in a fungus-gardening ant and its microbial mutualists. <i>Molecular Ecology</i> , 2008, 17, 4480-4488.	3.9	62
51	A breakthrough innovation in animal evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 5287-5288.	7.1	40
52	Paleodistributions and Comparative Molecular Phylogeography of Leafcutter Ants ( <i>Atta</i> spp.) Provide New Insight into the Origins of Amazonian Diversity. <i>PLoS ONE</i> , 2008, 3, e2738.	2.5	77
53	Genetic relationships between native and introduced populations of the little fire ant <i>Wasmannia auropunctata</i> . <i>Diversity and Distributions</i> , 2007, 13, 573-579.	4.1	20
54	GEOGRAPHIC VARIATION OF GENETIC AND BEHAVIORAL TRAITS IN NORTHERN AND SOUTHERN TÅŠNGARA FROGS. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 1669-1679.	2.3	65

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55	No evidence for female mate choice based on genetic similarity in the t <sup>Â</sup> ngara frog <i>Physalaemus pustulosus</i> . <i>Behavioral Ecology and Sociobiology</i> , 2006, 59, 796-804.	1.4	15
56	Complex host-pathogen coevolution in the <i>Apterostigma</i> fungus-growing ant-microbe symbiosis. <i>BMC Evolutionary Biology</i> , 2006, 6, 88.	3.2	54
57	Cooperation, conflict, and coevolution in the attine ant-fungus symbiosis. <i>Behavioral Ecology</i> , 2006, 17, 291-296.	2.2	26
58	Cryptic sex and many-to-one coevolution in the fungus-growing ant symbiosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 10702-10706.	7.1	137
59	The Evolution of Agriculture in Insects. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2005, 36, 563-595.	8.3	490
60	EVOLUTION OF ANT-CULTIVAR SPECIALIZATION AND CULTIVAR SWITCHING IN APTEROSTIGMA FUNGUS-GROWING ANTS. <i>Evolution; International Journal of Organic Evolution</i> , 2004, 58, 2252-2265.	2.3	62
61	The Evolution of Cooperation. <i>Quarterly Review of Biology</i> , 2004, 79, 135-160.	0.1	885
62	Ancient Tripartite Coevolution in the Attine Ant-Microbe Symbiosis. <i>Science</i> , 2003, 299, 386-388.	12.6	321
63	Ant versus Fungus versus Mutualism: Ant <sup>Â</sup> Cultivar Conflict and the Deconstruction of the Attine Ant <sup>Â</sup> Fungus Symbiosis. <i>American Naturalist</i> , 2002, 160, S67-S98.	2.1	149
64	Fungus-farming insects: Multiple origins and diverse evolutionary histories. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 15247-15249.	7.1	171
65	The Origin of the Attine Ant-Fungus Mutualism. <i>Quarterly Review of Biology</i> , 2001, 76, 169-197.	0.1	289
66	Agro-predation: usurpation of attine fungus gardens by <i>Megalomyrmex</i> ants. <i>Die Naturwissenschaften</i> , 2000, 87, 549-554.	1.6	42
67	Antifungal Diketopiperazines from Symbiotic Fungus of Fungus-Growing Ant <i>Cyphomyrmex minutus</i> . <i>Journal of Chemical Ecology</i> , 1999, 25, 935-941.	1.8	43