

Douglas C Woodhams

List of Publications by Year in descending order

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61
papers

7,037
citations

57366

43
h-index

99707

65
g-index

78
all docs

78
docs citations

78
times ranked

4140
citing authors

#	ARTICLE	IF	CITATIONS
1	Skin microbes on frogs prevent morbidity and mortality caused by a lethal skin fungus. <i>ISME Journal</i> , 2009, 3, 818-824.	9.9	491
2	The amphibian skin-associated microbiome across species, space and life history stages. <i>Molecular Ecology</i> , 2014, 23, 1238-1250.	3.6	373
3	Microbial community dynamics and effect of environmental microbial reservoirs on red-backed salamanders (<i>Plethodon cinereus</i>). <i>ISME Journal</i> , 2014, 8, 830-840.	9.9	322
4	Emerging disease of amphibians cured by elevated body temperature. <i>Diseases of Aquatic Organisms</i> , 2003, 55, 65-67.	1.0	290
5	Mitigating amphibian chytridiomycosis with bioaugmentation: characteristics of effective probiotics and strategies for their selection and use. <i>Ecology Letters</i> , 2013, 16, 807-820.	6.6	249
6	Symbiotic bacteria contribute to innate immune defenses of the threatened mountain yellow-legged frog, <i>Rana muscosa</i> . <i>Biological Conservation</i> , 2007, 138, 390-398.	4.1	248
7	Topographical Mapping of the Rainbow Trout (<i>Oncorhynchus mykiss</i>) Microbiome Reveals a Diverse Bacterial Community with Antifungal Properties in the Skin. <i>Applied and Environmental Microbiology</i> , 2015, 81, 6915-6925.	3.2	231
8	Ecology of Chytridiomycosis in Rainforest Stream Frog Assemblages of Tropical Queensland. <i>Conservation Biology</i> , 2005, 19, 1449-1459.	4.7	213
9	LIFE-HISTORY TRADE-OFFS INFLUENCE DISEASE IN CHANGING CLIMATES: STRATEGIES OF AN AMPHIBIAN PATHOGEN. <i>Ecology</i> , 2008, 89, 1627-1639.	3.4	210
10	Immune Defenses against <i>Batrachochytrium dendrobatidis</i> , a Fungus Linked to Global Amphibian Declines, in the South African Clawed Frog, <i>Xenopus laevis</i> . <i>Infection and Immunity</i> , 2010, 78, 3981-3992.	2.3	206
11	Antifungal isolates database of amphibian skin-associated bacteria and function against emerging fungal pathogens. <i>Ecology</i> , 2015, 96, 595-595.	3.4	203
12	Mitigating amphibian disease: strategies to maintain wild populations and control chytridiomycosis. <i>Frontiers in Zoology</i> , 2011, 8, 8.	2.1	199
13	Amphibian Immune Defenses against Chytridiomycosis: Impacts of Changing Environments. <i>Integrative and Comparative Biology</i> , 2011, 51, 552-562.	2.0	196
14	Interacting Symbionts and Immunity in the Amphibian Skin Mucosome Predict Disease Risk and Probiotic Effectiveness. <i>PLoS ONE</i> , 2014, 9, e96375.	2.5	194
15	Probiotic treatment restores protection against lethal fungal infection lost during amphibian captivity. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20161553.	2.8	153
16	Using Omics and Integrated Multi-Omics Approaches to Guide Probiotic Selection to Mitigate Chytridiomycosis and Other Emerging Infectious Diseases. <i>Frontiers in Microbiology</i> , 2016, 7, 68.	3.5	137
17	PREDICTED DISEASE SUSCEPTIBILITY IN A PANAMANIAN AMPHIBIAN ASSEMBLAGE BASED ON SKIN PEPTIDE DEFENSES. <i>Journal of Wildlife Diseases</i> , 2006, 42, 207-218.	0.8	133
18	Population trends associated with skin peptide defenses against chytridiomycosis in Australian frogs. <i>Oecologia</i> , 2006, 146, 531-540.	2.0	122

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19	Social Immunity in Amphibians: Evidence for Vertical Transmission of Innate Defenses. <i>Biotropica</i> , 2011, 43, 396-400.	1.6	122
20	Phylogenetic distribution of symbiotic bacteria from Panamanian amphibians that inhibit growth of the lethal fungal pathogen <i>Batrachochytrium dendrobatidis</i> . <i>Molecular Ecology</i> , 2015, 24, 1628-1641.	3.6	122
21	Mosquito Microbiome Dynamics, a Background for Prevalence and Seasonality of West Nile Virus. <i>Frontiers in Microbiology</i> , 2017, 8, 526.	3.5	117
22	Antimicrobial Peptide Defenses in Amphibian Skin. <i>Integrative and Comparative Biology</i> , 2005, 45, 137-142.	2.0	116
23	Inhibitory bacteria reduce fungi on early life stages of endangered Colorado boreal toads (<i>Anaxyrus boreas</i>). <i>ISME Journal</i> , 2016, 10, 934-944.	9.9	111
24	Prodigiosin, Violacein, and Volatile Organic Compounds Produced by Widespread Cutaneous Bacteria of Amphibians Can Inhibit Two <i>Batrachochytrium</i> Fungal Pathogens. <i>Microbial Ecology</i> , 2018, 75, 1049-1062.	3.0	111
25	Chromosomal Copy Number Variation, Selection and Uneven Rates of Recombination Reveal Cryptic Genome Diversity Linked to Pathogenicity. <i>PLoS Genetics</i> , 2013, 9, e1003703.	3.3	106
26	Antimicrobial peptide defenses of the mountain yellow-legged frog (<i>Rana muscosa</i>). <i>Developmental and Comparative Immunology</i> , 2006, 30, 831-842.	2.2	102
27	Variations in the expressed antimicrobial peptide repertoire of northern leopard frog (<i>Rana pipiens</i>) populations suggest intraspecies differences in resistance to pathogens. <i>Developmental and Comparative Immunology</i> , 2009, 33, 1247-1257.	2.2	90
28	Treatment of amphibians infected with chytrid fungus: learning from failed trials with itraconazole, antimicrobial peptides, bacteria, and heat therapy. <i>Diseases of Aquatic Organisms</i> , 2012, 98, 11-25.	1.0	88
29	Managing Amphibian Disease with Skin Microbiota. <i>Trends in Microbiology</i> , 2016, 24, 161-164.	7.7	87
30	Greater Species Richness of Bacterial Skin Symbionts Better Suppresses the Amphibian Fungal Pathogen <i>Batrachochytrium Dendrobatidis</i> . <i>Microbial Ecology</i> , 2017, 74, 217-226.	3.0	84
31	Community richness of amphibian skin bacteria correlates with bioclimate at the global scale. <i>Nature Ecology and Evolution</i> , 2019, 3, 381-389.	7.9	73
32	Using decision analysis to support proactive management of emerging infectious wildlife diseases. <i>Frontiers in Ecology and the Environment</i> , 2017, 15, 214-221.	2.9	72
33	Vertebrate Hosts as Islands: Dynamics of Selection, Immigration, Loss, Persistence, and Potential Function of Bacteria on Salamander Skin. <i>Frontiers in Microbiology</i> , 2016, 7, 333.	3.5	67
34	Stability of Microbiota Facilitated by Host Immune Regulation: Informing Probiotic Strategies to Manage Amphibian Disease. <i>PLoS ONE</i> , 2014, 9, e87101.	2.5	66
35	Host-associated microbiomes are predicted by immune system complexity and climate. <i>Genome Biology</i> , 2020, 21, 23.	9.1	62
36	Peptides with differential cytolytic activity from skin secretions of the lemur leaf frog <i>Hylomantis lemur</i> (Hyllidae: Phyllomedusinae). <i>Toxicon</i> , 2007, 50, 498-506.	1.9	61

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37	Chytridiomycosis and Amphibian Population Declines Continue to Spread Eastward in Panama. <i>EcoHealth</i> , 2008, 5, 268-274.	2.0	59
38	The Alyteserins: Two families of antimicrobial peptides from the skin secretions of the midwife toad <i>Alytes obstetricans</i> (Alytidae). <i>Peptides</i> , 2009, 30, 1069-1073.	2.4	57
39	Skin bacteria provide early protection for newly metamorphosed southern leopard frogs (<i>Rana</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T <i>Conservation</i> , 2015, 187, 91-102.	4.1	57
40	Probiotics Modulate a Novel Amphibian Skin Defense Peptide That Is Antifungal and Facilitates Growth of Antifungal Bacteria. <i>Microbial Ecology</i> , 2020, 79, 192-202.	3.0	53
41	Variation in the Presence of Anti-Batrachochytrium dendrobatidis Bacteria of Amphibians Across Life Stages and Elevations in Ecuador. <i>EcoHealth</i> , 2015, 12, 310-319.	2.0	44
42	The ebb and flow of antimicrobial skin peptides defends northern leopard frogs (<i><sc>R</sc></i>ana) Tj ETQq0 0 0 rgBT /Overlock 10 T	9.6	42
43	A peptide of the phylloseptin family from the skin of the frog <i>Hylomantis lemur</i> (Phyllomedusinae) with potent in vitro and in vivo insulin-releasing activity. <i>Peptides</i> , 2008, 29, 2136-2143.	2.4	38
44	Developmental trajectories of amphibian microbiota: response to bacterial therapy depends on initial community structure. <i>Environmental Microbiology</i> , 2017, 19, 1502-1517.	3.8	38
45	Hybrid advantage in skin peptide immune defenses of water frogs (<i>Pelophylax esculentus</i>) at risk from emerging pathogens. <i>Infection, Genetics and Evolution</i> , 2012, 12, 1854-1864.	2.3	35
46	Identification of Bufadienolides from the Boreal Toad, <i>Anaxyrus boreas</i> , Active Against a Fungal Pathogen. <i>Microbial Ecology</i> , 2017, 74, 990-1000.	3.0	31
47	Prevalence and pathogen load estimates for the fungus <i>Batrachochytrium dendrobatidis</i> are impacted by ITS DNA copy number variation. <i>Diseases of Aquatic Organisms</i> , 2017, 123, 213-226.	1.0	31
48	Life history linked to immune investment in developing amphibians. , 2016, 4, cow025.		30
49	Inhibitory Bacterial Diversity and Mucosome Function Differentiate Susceptibility of Appalachian Salamanders to Chytrid Fungal Infection. <i>Applied and Environmental Microbiology</i> , 2022, 88, e0181821.	3.2	30
50	Adaptations of skin peptide defences and possible response to the amphibian chytrid fungus in populations of Australian green-eyed treefrogs, <i>Litoria genimaculata</i>. <i>Diversity and Distributions</i> , 2010, 16, 703-712.	4.1	28
51	Winter is coming—Temperature affects immune defenses and susceptibility to <i>Batrachochytrium salamandrivorans</i> . <i>PLoS Pathogens</i> , 2021, 17, e1009234.	4.0	25
52	Tolerance of fungal infection in European water frogs exposed to <i>Batrachochytrium dendrobatidis</i> after experimental reduction of innate immune defenses. <i>BMC Veterinary Research</i> , 2012, 8, 197.	2.0	24
53	Immune evasion or avoidance: Fungal skin infection linked to reduced defence peptides in Australian green-eyed treefrogs, <i>Litoria serrata</i> . <i>Fungal Biology</i> , 2012, 116, 1203-1211.	2.5	23
54	Sink or swim: a test of tadpole behavioral responses to predator cues and potential alarm pheromones from skin secretions. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2012, 198, 841-846.	1.7	18

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55	The adaptive microbiome hypothesis and immune interactions in amphibian mucus. <i>Developmental and Comparative Immunology</i> , 2023, 145, 104690.	2.2	16
56	Converting the Religious: Putting Amphibian Conservation in Context. <i>BioScience</i> , 2009, 59, 463-464.	4.8	5
57	Cold hardiness in two helminth parasites of the freeze-tolerant wood frog, <i>Rana sylvatica</i> . <i>Canadian Journal of Zoology</i> , 2000, 78, 1085-1091.	1.1	5
58	Disease defence through generations: leaf-cutter ants and their symbiotic bacteria. <i>Molecular Ecology</i> , 2013, 22, 4141-4143.	3.6	3
59	Towards the generation of gnotobiotic larvae as a tool to investigate the influence of the microbiome on the development of the amphibian immune system. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2023, 378, .	4.1	2
60	Shotgun metagenomics captures more microbial diversity than targeted 16S rRNA gene sequencing for field specimens and preserved museum specimens. <i>PLoS ONE</i> , 2023, 18, e0291540.	2.5	1
61	Mosquito Microbiomes of Rwanda: Characterizing Mosquito Host and Microbial Communities in the Land of a Thousand Hills. <i>Microbial Ecology</i> , 2024, 87, .	3.0	0