

Louise A Rollins-Smith

List of Publications by Year in descending order

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99
papers

6,667
citations

53794

45
h-index

64796

79
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99
all docs

99
docs citations

99
times ranked

3764
citing authors

#	ARTICLE	IF	CITATIONS
1	Amphibian declines: an immunological perspective. <i>Developmental and Comparative Immunology</i> , 1999, 23, 459-472.	2.3	413
2	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	241
3	Metamorphosis and the amphibian immune system. <i>Immunological Reviews</i> , 1998, 166, 221-230.	6.0	240
4	LIFE-HISTORY TRADE-OFFS INFLUENCE DISEASE IN CHANGING CLIMATES: STRATEGIES OF AN AMPHIBIAN PATHOGEN. <i>Ecology</i> , 2008, 89, 1627-1639.	3.2	206
5	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.	2.2	199
6	Amphibian Immune Defenses against Chytridiomycosis: Impacts of Changing Environments. <i>Integrative and Comparative Biology</i> , 2011, 51, 552-562.	2.0	193
7	Antifungal isolates database of amphibian skin-associated bacteria and function against emerging fungal pathogens. <i>Ecology</i> , 2015, 96, 595-595.	3.2	192
8	Amphibians acquire resistance to live and dead fungus overcoming fungal immunosuppression. <i>Nature</i> , 2014, 511, 224-227.	27.8	190
9	The role of amphibian antimicrobial peptides in protection of amphibians from pathogens linked to global amphibian declines. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 1593-1599.	2.6	185
10	Antimicrobial Peptides from Amphibian Skin Potently Inhibit Human Immunodeficiency Virus Infection and Transfer of Virus from Dendritic Cells to T Cells. <i>Journal of Virology</i> , 2005, 79, 11598-11606.	3.4	157
11	Antimicrobial peptide defenses against pathogens associated with global amphibian declines. <i>Developmental and Comparative Immunology</i> , 2002, 26, 63-72.	2.3	155
12	The Invasive Chytrid Fungus of Amphibians Paralyzes Lymphocyte Responses. <i>Science</i> , 2013, 342, 366-369.	12.6	154
13	Antimicrobial peptide defenses against chytridiomycosis, an emerging infectious disease of amphibian populations. <i>Developmental and Comparative Immunology</i> , 2005, 29, 589-598.	2.3	153
14	Amphibian immunity—stress, disease, and climate change. <i>Developmental and Comparative Immunology</i> , 2017, 66, 111-119.	2.3	149
15	Effects of Chytrid and Carbaryl Exposure on Survival, Growth and Skin Peptide Defenses in Foothill Yellow-legged Frogs. <i>Environmental Science & Technology</i> , 2007, 41, 1771-1776.	10.0	144
16	Activity of antimicrobial skin peptides from ranid frogs against <i>Batrachochytrium dendrobatidis</i> , the chytrid fungus associated with global amphibian declines. <i>Developmental and Comparative Immunology</i> , 2002, 26, 471-479.	2.3	140
17	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	135
18	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	130

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19	Shifts in disease dynamics in a tropical amphibian assemblage are not due to pathogen attenuation. <i>Science</i> , 2018, 359, 1517-1519.	12.6	127
20	Population trends associated with skin peptide defenses against chytridiomycosis in Australian frogs. <i>Oecologia</i> , 2006, 146, 531-540.	2.0	120
21	Social Immunity in Amphibians: Evidence for Vertical Transmission of Innate Defenses. <i>Biotropica</i> , 2011, 43, 396-400.	1.6	120
22	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.	3.9	118
23	Antimicrobial Peptide Defenses in Amphibian Skin. <i>Integrative and Comparative Biology</i> , 2005, 45, 137-142.	2.0	116
24	FKBP Binding Characteristics of Cardiac Microsomes from Diverse Vertebrates. <i>Biochemical and Biophysical Research Communications</i> , 2001, 281, 979-986.	2.1	107
25	Antimicrobial peptide defenses of the mountain yellow-legged frog (<i>Rana muscosa</i>). <i>Developmental and Comparative Immunology</i> , 2006, 30, 831-842.	2.3	99
26	Dietary protein restriction impairs growth, immunity, and disease resistance in southern leopard frog tadpoles. <i>Oecologia</i> , 2012, 169, 23-31.	2.0	91
27	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	87
28	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.	2.3	86
29	Inactivation of Frog Virus 3 and Channel Catfish Virus by Esculentin-2P and Ranatuerin-2P, Two Antimicrobial Peptides Isolated from Frog Skin. <i>Virology</i> , 2001, 288, 351-357.	2.4	81
30	Antimicrobial peptide defenses of the Tarahumara frog, <i>Rana tarahumarae</i> . <i>Biochemical and Biophysical Research Communications</i> , 2002, 297, 361-367.	2.1	78
31	Toxins and pharmacologically active compounds from species of the family Bufonidae (Amphibia). <i>Tj ETQq1 1 0.784314 rgBT/Overloc</i> 4.1 77		
32	Neuroendocrine-Immune System Interactions in Amphibians: Implications for Understanding Global Amphibian Declines. <i>Immunologic Research</i> , 2001, 23, 273-280.	2.9	74
33	Community richness of amphibian skin bacteria correlates with bioclimate at the global scale. <i>Nature Ecology and Evolution</i> , 2019, 3, 381-389.	7.8	68
34	Activities of Temporin Family Peptides against the Chytrid Fungus (<i>Batrachochytrium dendrobatidis</i>) Associated with Global Amphibian Declines. <i>Antimicrobial Agents and Chemotherapy</i> , 2003, 47, 1157-1160.	3.2	62
35	Peptides with differential cytolytic activity from skin secretions of the lemur leaf frog <i>Hylomantis lemur</i> (Hylidae: Phyllomedusinae). <i>Toxicon</i> , 2007, 50, 498-506.	1.6	60
36	Chytridiomycosis and Amphibian Population Declines Continue to Spread Eastward in Panama. <i>EcoHealth</i> , 2008, 5, 268-274.	2.0	59

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37	Immune defenses of <i>Xenopus laevis</i> against <i>Batrachochytrium dendrobatidis</i> . <i>Frontiers in Bioscience - Scholar</i> , 2009, S1, 68-91.	2.1	58
38	Involvement of Glucocorticoids in the Reorganization of the Amphibian Immune System at Metamorphosis. <i>Autoimmunity</i> , 1997, 5, 145-152.	0.6	55
39	Host Stress Response Is Important for the Pathogenesis of the Deadly Amphibian Disease, Chytridiomycosis, in <i>Litoria caerulea</i> . <i>PLoS ONE</i> , 2013, 8, e62146.	2.5	54
40	Inhibition of Local Immune Responses by the Frog-Killing Fungus <i>Batrachochytrium dendrobatidis</i> . <i>Infection and Immunity</i> , 2014, 82, 4698-4706.	2.2	54
41	Skin bacteria provide early protection for newly metamorphosed southern leopard frogs (<i>Rana</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Conservation, 2015, 187, 91-102.	4.1	54
42	Development of antimicrobial peptide defenses of southern leopard frogs, <i>Rana sphenoccephala</i> , against the pathogenic chytrid fungus, <i>Batrachochytrium dendrobatidis</i> . <i>Developmental and Comparative Immunology</i> , 2015, 48, 65-75.	2.3	52
43	Expression of Class II Major Histocompatibility Complex Antigens on Adult T Cells in <i>Xenopus</i> is Metamorphosis- Dependent. <i>Autoimmunity</i> , 1990, 1, 97-104.	0.6	48
44	An antimicrobial peptide from the skin secretions of the mountain chicken frog <i>Leptodactylus fallax</i> (Anura:Leptodactylidae). <i>Regulatory Peptides</i> , 2005, 124, 173-178.	1.9	47
45	Correlates of virulence in a frog-killing fungal pathogen: evidence from a California amphibian decline. <i>ISME Journal</i> , 2015, 9, 1570-1578.	9.8	47
46	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.	2.8	44
47	Characterization of a peptide from skin secretions of male specimens of the frog, <i>Leptodactylus fallax</i> that stimulates aggression in male frogs. <i>Peptides</i> , 2005, 26, 597-601.	2.4	43
48	The ebb and flow of antimicrobial skin peptides defends northern leopard frogs (<i>Rana</i>) Tj ETQq0 0 0 rgBT /Overlock 10 T	9.5	41
49	Comment on "Amphibian fungal panzootic causes catastrophic and ongoing loss of biodiversity". <i>Science</i> , 2020, 367, .	12.6	40
50	ANTIMICROBIAL PEPTIDE DEFENSES IN THE SALAMANDER, <i>AMBYSTOMA TIGRINUM</i> , AGAINST EMERGING AMPHIBIAN PATHOGENS. <i>Journal of Wildlife Diseases</i> , 2008, 44, 226-236.	0.8	39
51	Immunomodulatory Metabolites Released by the Frog-Killing Fungus <i>Batrachochytrium dendrobatidis</i> . <i>Infection and Immunity</i> , 2015, 83, 4565-4570.	2.2	39
52	Global Amphibian Declines, Disease, and the Ongoing Battle between <i>Batrachochytrium</i> Fungi and the Immune System. <i>Herpetologica</i> , 2020, 76, 178.	0.4	39
53	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	37
54	Involvement of Thyroid Hormones in the Expression of MHC class I Antigens During Ontogeny in <i>Xenopus</i> . <i>Autoimmunity</i> , 1997, 5, 133-144.	0.6	36

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55	Contribution of ventral blood island mesoderm to hematopoiesis in postmetamorphic and metamorphosis-inhibited <i>Xenopus laevis</i> . <i>Developmental Biology</i> , 1990, 142, 178-183.	2.0	34
56	Conservation risk of <i>Batrachochytrium salamandrivorans</i> to endemic lungless salamanders. <i>Conservation Letters</i> , 2020, 13, e12675.	5.7	34
57	The effects of corticosteroid hormones and thyroid hormones on lymphocyte viability and proliferation during development and metamorphosis of <i>Xenopus laevis</i> . <i>Differentiation</i> , 1993, 54, 155-160.	1.9	33
58	Skin peptides protect juvenile leopard frogs (<i>Rana pipiens</i>) against chytridiomycosis. <i>Journal of Experimental Biology</i> , 2013, 216, 2908-16.	1.7	31
59	In Vitro Studies of Spontaneous and Corticosteroid-Induced Apoptosis of Lymphocyte Populations from Metamorphosing Frogs/RU486 Inhibition. <i>Brain, Behavior, and Immunity</i> , 1997, 11, 119-131.	4.1	29
60	Life history linked to immune investment in developing amphibians. , 2016, 4, cow025.		28
61	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	27
62	Larval exposure to predator cues alters immune function and response to a fungal pathogen in post-metamorphic wood frogs. <i>Ecological Applications</i> , 2013, 23, 1443-1454.	3.8	26
63	Inhibition of HIV infection by caerin 1 antimicrobial peptides. <i>Peptides</i> , 2015, 71, 296-303.	2.4	26
64	Microbiota and skin defense peptides may facilitate coexistence of two sympatric Andean frog species with a lethal pathogen. <i>ISME Journal</i> , 2019, 13, 361-373.	9.8	26
65	Thymus Ontogeny in Frogs: T-Cell Renewal at Metamorphosis. <i>Autoimmunity</i> , 1992, 2, 207-213.	0.6	25
66	Norepinephrine depletion of antimicrobial peptides from the skin glands of <i>Xenopus laevis</i> . <i>Developmental and Comparative Immunology</i> , 2012, 37, 19-27.	2.3	25
67	Winter is coming—Temperature affects immune defenses and susceptibility to <i>Batrachochytrium salamandrivorans</i> . <i>PLoS Pathogens</i> , 2021, 17, e1009234.	4.7	25
68	Effects of captivity and rewilding on amphibian skin microbiomes. <i>Biological Conservation</i> , 2022, 271, 109576.	4.1	25
69	Effects of thyroxine-driven precocious metamorphosis on maturation of adult-type allograft rejection responses in early thyroidectomized frogs. <i>Differentiation</i> , 1988, 37, 180-185.	1.9	24
70	Disease and the Drying Pond: Examining Possible Links among Drought, Immune Function, and Disease Development in Amphibians. <i>Physiological and Biochemical Zoology</i> , 2019, 92, 339-348.	1.5	24
71	Viscosin-like lipopeptides from frog skin bacteria inhibit <i>Aspergillus fumigatus</i> and <i>Batrachochytrium dendrobatidis</i> detected by imaging mass spectrometry and molecular networking. <i>Scientific Reports</i> , 2019, 9, 3019.	3.3	23
72	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	22

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73	Evaluation of Amphotericin B and Chloramphenicol as Alternative Drugs for Treatment of Chytridiomycosis and Their Impacts on Innate Skin Defenses. <i>Applied and Environmental Microbiology</i> , 2014, 80, 4034-4041.	3.1	22
74	Nikkomycin Z is an effective inhibitor of the chytrid fungus linked to global amphibian declines. <i>Fungal Biology</i> , 2014, 118, 48-60.	2.5	21
75	Frogs adapt to physiologically costly anthropogenic noise. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20182194.	2.6	21
76	Mitogenic responses of frog lymphocytes to crude and purified preparations of bacterial lipopolysaccharide (LPS). <i>Developmental and Comparative Immunology</i> , 1983, 7, 483-496.	2.3	18
77	Preparatory immunity: Seasonality of mucosal skin defences and <i>Batrachochytrium</i> infections in Southern leopard frogs. <i>Journal of Animal Ecology</i> , 2021, 90, 542-554.	2.8	18
78	Immune defenses of <i>Xenopus laevis</i> against <i>Batrachochytrium dendrobatidis</i> . <i>Frontiers in Bioscience - Elite</i> , 2009, 1, 68.	1.8	17
79	Interactive effects of competition and predator cues on immune responses of leopard frogs at metamorphosis. <i>Journal of Experimental Biology</i> , 2014, 217, 351-8.	1.7	17
80	Increased interleukin-6 (IL-6) production in a young child with clinical and pathologic features of multicentric Castleman's disease. <i>Journal of Clinical Immunology</i> , 1994, 14, 382-390.	3.8	16
81	UVB Dose-toxicity Thresholds and Steady-state DNA-photoproduct Levels During Chronic Irradiation of Inbred <i>Xenopus laevis</i> Tadpoles. <i>Photochemistry and Photobiology</i> , 2006, 82, 1080.	2.5	16
82	Natural history and conservation of the rediscovered Hula painted frog, <i>Latonia nigriventer</i> . <i>Contributions To Zoology</i> , 2017, 86, 11-37.	0.5	16
83	Out in the cold and sick: Low temperatures and fungal infections impair a frog's skin defenses. <i>Journal of Experimental Biology</i> , 2019, 222, .	1.7	16
84	Metabolites Involved in Immune Evasion by <i>Batrachochytrium dendrobatidis</i> Include the Polyamine Spermidine. <i>Infection and Immunity</i> , 2019, 87, .	2.2	15
85	Antibiotic Properties of Novel Synthetic Temporin A Analogs and a Cecropin A-Temporin A Hybrid Peptide. <i>Protein and Peptide Letters</i> , 2002, 9, 533-543.	0.9	15
86	Antimicrobial Secretions of Toads (Anura, Bufonidae): Bioactive Extracts and Isolated Compounds against Human Pathogens. <i>Antibiotics</i> , 2020, 9, 843.	3.7	13
87	Coqui frogs persist with the deadly chytrid fungus despite a lack of defensive antimicrobial peptides. <i>Diseases of Aquatic Organisms</i> , 2015, 113, 81-83.	1.0	13
88	Temperature-dependent dissociation of Luck's renal adenocarcinoma cells. <i>Differentiation</i> , 1984, 26, 227-230.	1.9	12
89	Effects of thyroid hormone deprivation on immunity in postmetamorphic frogs. <i>Developmental and Comparative Immunology</i> , 1993, 17, 157-164.	2.3	12
90	Evaluation of the Skin Peptide Defenses of the Oregon Spotted Frog <i>Rana pretiosa</i> Against Infection by the Chytrid Fungus <i>Batrachochytrium dendrobatidis</i> . <i>Journal of Chemical Ecology</i> , 2013, 39, 797-805.	1.8	11

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91	Effect of glucocorticoids on expression of cutaneous antimicrobial peptides in northern leopard frogs (<i>Lithobates pipiens</i>). <i>BMC Veterinary Research</i> , 2015, 11, 191.	1.9	10
92	Development of an assay for testing the antimicrobial activity of skin peptides against the amphibian chytrid fungus (<i>Batrachochytrium dendrobatidis</i>) using <i>Xenopus laevis</i> . <i>Ecotoxicology and Environmental Safety</i> , 2008, 71, 506-513.	6.0	9
93	Caerin 1 Antimicrobial Peptides that Inhibit HIV and <i>Neisseria</i> May Spare Protective <i>Lactobacilli</i> . <i>Antibiotics</i> , 2020, 9, 661.	3.7	8
94	<i>Batrachochytrium</i> fungi: stealth invaders in amphibian skin. <i>Current Opinion in Microbiology</i> , 2021, 61, 124-132.	5.1	8
95	Once a reservoir, always a reservoir? Seasonality affects the pathogen maintenance potential of amphibian hosts. <i>Ecology</i> , 2022, , e3759.	3.2	7
96	AN AMPHIBIAN MODEL TO TEST THE EFFECTS OF XENOBIOTIC CHEMICALS ON DEVELOPMENT OF THE HEMATOPOIETIC SYSTEM. <i>Environmental Toxicology and Chemistry</i> , 2004, 23, 2863.	4.3	6
97	Lymphocyte Inhibition by the Salamander-Killing Chytrid Fungus, <i>Batrachochytrium salamandrivorans</i> . <i>Infection and Immunity</i> , 2022, 90, iai0002022.	2.2	6
98	Lymphocyte Deficiency Induced by Sublethal Irradiation in <i>Xenopus</i> . <i>Cold Spring Harbor Protocols</i> , 2019, 2019, pdb.prot097626.	0.3	3
99	Amphibian Models and Approaches to Immunotoxicology. , 2005, , 77-90.		1