Lauren A O'connell

List of Publications by Year
in descending order

66 papers	3,708 citations	257450 24 h-index	149698 56 g-index
91 all docs	91 docs citations	91 times ranked	3237 citing authors

#	Article	IF	Citations
1	The Vertebrate mesolimbic reward system and social behavior network: A comparative synthesis. Journal of Comparative Neurology, 2011, 519, 3599-3639.	1.6	820
2	Evolution of a Vertebrate Social Decision-Making Network. Science, 2012, 336, 1154-1157.	12.6	513
3	Neural control of maternal and paternal behaviors. Science, 2014, 345, 765-770.	12.6	336
4	Genes, hormones, and circuits: An integrative approach to study the evolution of social behavior. Frontiers in Neuroendocrinology, 2011, 32, 320-335.	5.2	205
5	Isotocin regulates paternal care in a monogamous cichlid fish. Hormones and Behavior, 2012, 61, 725-733.	2.1	118
6	Social Status Predicts How Sex Steroid Receptors Regulate Complex Behavior across Levels of Biological Organization. Endocrinology, 2012, 153, 1341-1351.	2.8	84
7	Aromatase regulates aggression in the African cichlid fish Astatotilapia burtoni. Physiology and Behavior, 2013, 112-113, 77-83.	2.1	80
8	Conserved transcriptomic profiles underpin monogamy across vertebrates. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1331-1336.	7.1	75
9	Characterization of the dopaminergic system in the brain of an African cichlid fish, Astatotilapia burtoni. Journal of Comparative Neurology, 2011, 519, 75-92.	1.6	74
10	Distribution of nonapeptide systems in the forebrain of an African cichlid fish, Astatotilapia burtoni. Journal of Chemical Neuroanatomy, 2012, 44, 86-97.	2.1	73
11	Interacting amino acid replacements allow poison frogs to evolve epibatidine resistance. Science, 2017, 357, 1261-1266.	12.6	65
12	Protection from UV light is an evolutionarily conserved feature of the haematopoietic niche. Nature, 2018, 558, 445-448.	27.8	59
13	The distribution of an AVT V1a receptor in the brain of a sex changing fish, Epinephelus adscensionis. Journal of Chemical Neuroanatomy, 2011, 42, 72-88.	2.1	57
14	A Review of Chemical Defense in Poison Frogs (Dendrobatidae): Ecology, Pharmacokinetics, and Autoresistance. , 2016, , 305-337.		57
15	Modification of feeding circuits in the evolution of social behavior. Journal of Experimental Biology, 2017, 220, 92-102.	1.7	57
16	Convergent Substitutions in a Sodium Channel Suggest Multiple Origins of Toxin Resistance in Poison Frogs. Molecular Biology and Evolution, 2016, 33, 1068-1080.	8.9	53
17	Rising StARs: Behavioral, hormonal, and molecular responses to social challenge and opportunity. Hormones and Behavior, 2012, 61, 631-641.	2.1	52
18	The skin microbiome facilitates adaptive tetrodotoxin production in poisonous newts. ELife, 2020, 9, .	6.0	51

#	Article	IF	Citations
19	Ant and Mite Diversity Drives Toxin Variation in the Little Devil Poison Frog. Journal of Chemical Ecology, 2016, 42, 537-551.	1.8	50
20	Female preference for males depends on reproductive physiology in the African cichlid fish Astatotilapia burtoni. General and Comparative Endocrinology, 2013, 180, 56-63.	1.8	39
21	The neural basis of tadpole transport in poison frogs. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20191084.	2.6	39
22	Evolution of affiliation: patterns of convergence from genomes to behaviour. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20180242.	4.0	38
23	Neuroendocrine Mechanisms Underlying Sensory Integration of Social Signals. Journal of Neuroendocrinology, 2013, 25, 644-654.	2.6	37
24	Sex differences and similarities in the neuroendocrine regulation of social behavior in an African cichlid fish. Hormones and Behavior, 2013, 64, 468-476.	2.1	37
25	Mechanisms of Convergent Egg Provisioning in Poison Frogs. Current Biology, 2019, 29, 4145-4151.e3.	3.9	33
26	Prostaglandin F2Î± facilitates female mating behavior based on male performance. Behavioral Ecology and Sociobiology, 2013, 67, 1307-1315.	1.4	31
27	Poison frogs as a model system for studying the neurobiology of parental care. Current Opinion in Behavioral Sciences, 2015, 6, 76-81.	3.9	30
28	Neurochemical profiling of dopaminergic neurons in the forebrain of a cichlid fish, Astatotilapia burtoni. Journal of Chemical Neuroanatomy, 2013, 47, 106-115.	2.1	26
29	Divergence in problem-solving skills is associated with differential expression of glutamate receptors in wild finches. Science Advances, 2018, 4, eaao6369.	10.3	26
30	Molecular physiology of chemical defenses in a poison frog. Journal of Experimental Biology, 2019, 222, .	1.7	26
31	Studying convergent evolution to relate genotype to behavioral phenotype. Journal of Experimental Biology, 2020, 223, .	1.7	26
32	Evidence that toxin resistance in poison birds and frogs is not rooted in sodium channel mutations and may rely on â€œtoxin spongeâ€•proteins. Journal of General Physiology, 2021, 153, .	1.9	26
33	Optimization of nextâ€generation sequencing transcriptome annotation for species lacking sequenced genomes. Molecular Ecology Resources, 2016, 16, 446-458.	4.8	23
34	Rapid toxin sequestration modifies poison frog physiology. Journal of Experimental Biology, 2021, 224, .	1.7	23
35	Social odors conveying dominance and reproductive information induce rapid physiological and neuromolecular changes in a cichlid fish. BMC Genomics, 2015, 16, 114.	2.8	21
36	Characterization of the Dopamine System in the Brain of the TÃºngara Frog, <i>Physalaemus pustulosus</i>. Brain, Behavior and Evolution, 2010, 76, 211-225.	1.7	19

#	Article	IF	Citations
37	Developmental morphology of granular skin glands in pre-metamorphic egg-eating poison frogs. Zoomorphology, 2017, 136, 219-224.	0.8	19
38	Radiation of the polymorphic Little Devil poison frog (Oophaga sylvatica) in Ecuador. Ecology and Evolution, 2017, 7, 9750-9762.	1.9	19
39	Evolutionary Development of Neural Systems in Vertebrates and Beyond. Journal of Neurogenetics, 2013, 27, 69-85.	1.4	18
40	Seasonal changes in diet and chemical defense in the Climbing Mantella frog (Mantella laevigata). PLoS ONE, 2018, 13, e0207940.	2.5	18
41	Hormonal and neural correlates of care in active versus observing poison frog parents. Hormones and Behavior, 2020, 120, 104696.	2.1	18
42	Variation in social systems within Chaetodon butterflyfishes, with special reference to pair bonding. PLoS ONE, 2018, 13, e0194465.	2.5	17
43	Neural distribution of the nuclear progesterone receptor in the tÃºngara frog, Physalaemus pustulosus. Journal of Chemical Neuroanatomy, 2011, 41, 137-147.	2.1	16
44	Bringing immersive science to undergraduate laboratory courses using CRISPR gene knockouts in frogs and butterflies. Journal of Experimental Biology, 2020, 223, .	1.7	16
45	Multiâ€glomerular projection of single olfactory receptor neurons is conserved among amphibians. Journal of Comparative Neurology, 2020, 528, 2239-2253.	1.6	15
46	Land use impacts poison frog chemical defenses through changes in leaf litter ant communities. Neotropical Biodiversity, 2020, 6, 75-87.	0.5	15
47	Social boldness correlates with brain gene expression in male green anoles. Hormones and Behavior, 2021, 133, 105007.	2.1	14
48	Neuronal Nitric Oxide Synthase as a Substrate for the Evolution of Pseudosexual Behaviour in a Parthenogenetic Whiptail Lizard. Journal of Neuroendocrinology, 2011, 23, 244-253.	2.6	12
49	Diversity within diversity: Parasite species richness in poison frogs assessed by transcriptomics. Molecular Phylogenetics and Evolution, 2018, 125, 40-50.	2.7	12
50	Gene expression correlates of social evolution in coral reef butterflyfishes. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20200239.	2.6	12
51	Molecular characterization and brain distribution of the progesterone receptor in whiptail lizards. General and Comparative Endocrinology, 2011, 171, 64-74.	1.8	10
52	Neural correlates of winning and losing fights in poison frog tadpoles. Physiology and Behavior, 2020, 223, 112973.	2.1	10
53	Molecular physiology of pumiliotoxin sequestration in a poison frog. PLoS ONE, 2022, 17, e0264540.	2.5	10
54	Aggressive but not reproductive boldness in male green anole lizards correlates with baseline vasopressin activity. Hormones and Behavior, 2022, 140, 105109.	2.1	9

#	Article	IF	Citations
55	Androgens coordinate neurotransmitterâ€related gene expression in male whiptail lizards. Genes, Brain and Behavior, 2012, 11, 813-818.	2.2	7
56	Conservation of Glomerular Organization in the Main Olfactory Bulb of Anuran Larvae. Frontiers in Neuroanatomy, 2020, 14, 44.	1.7	7
57	Frank Beach Award Winner: Lessons from poison frogs on ecological drivers of behavioral diversification. Hormones and Behavior, 2020, 126, 104869.	2.1	6
58	Evolutionary insights into sexual behavior from whiptail lizards. Journal of Experimental Zoology Part A: Ecological and Integrative Physiology, 2022, 337, 88-98.	1.9	6
59	Understanding the Loss of Maternal Care in Avian Brood Parasites Using Preoptic Area Transcriptome Comparisons in Brood Parasitic and Non-parasitic Blackbirds. G3: Genes, Genomes, Genetics, 2019, 9, 1075-1084.	1.8	5
60	Long distance homing in the cane toad (Rhinella marina) in its native range. Journal of Experimental Biology, 2022, 225, .	1.7	5
61	Circuit Architecture Underlying Distinct Components of Parental Care. Trends in Neurosciences, 2018, 41, 334-336.	8.6	4
62	Lenomyrmex hoelldobleri: a new ant species discovered in the stomach of the dendrobatid poison frog, Oophaga sylvatica (Funkhouser). ZooKeys, 2016, 618, 79-95.	1.1	3
63	Response to Heethoff, Norton, and Raspotnig: Ant and Mite Diversity Drives Toxin Variation in the Little Devil Poison Frog and Erratum. Journal of Chemical Ecology, 2016, 42, 845-848.	1.8	1
64	The Parental Dilemma: How Evolution of Diverse Strategies for Infant Care Informs Social Behavior Circuits. Frontiers in Neural Circuits, 2021, 15, 734474.	2.8	1
65	Early career researchers: an interview with Lauren O'Connell. Journal of Experimental Biology, 2017, 220, 2303-2305.	1.7	0
66	Cover Image, Volume 528, Issue 13. Journal of Comparative Neurology, 2020, 528, C4.	1.6	0