Barney A Schlinger

List of Publications by Year
in descending order

133 papers	6,741 citations	44069 48 h-index	69250 77 g-index
136 all docs	136 docs citations	136 times ranked	2633 citing authors

#	Article	IF	Citations
1	Forebrain steroid levels fluctuate rapidly during social interactions. Nature Neuroscience, 2008, 11, 1327-1334.	14.8	284
2	Dense sampling of bird diversity increases power of comparative genomics. Nature, 2020, 587, 252-257.	27.8	251
3	Distribution and regulation of telencephalic aromatase expression in the zebra finch revealed with a specific antibody. Journal of Comparative Neurology, 2000, 423, 619-630.	1.6	232
4	Synaptocrine Signaling: Steroid Synthesis and Action at the Synapse. Endocrine Reviews, 2011, 32, 532-549.	20.1	211
5	Brain estrogens rapidly strengthen auditory encoding and guide song preference in a songbird. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 3852-3857.	7.1	185
6	Brain aromatase, 5?-reductase, and 5?-reductase change seasonally in wild male song sparrows: Relationship to aggressive and sexual behavior. Journal of Neurobiology, 2003, 56, 209-221.	3.6	170
7	Acute and chronic effects of an aromatase inhibitor on territorial aggression in breeding and nonbreeding male song sparrows. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2000, 186, 759-769.	1.6	160
8	Localization of Aromatase in Synaptosomal and Microsomal Subfractions of Quail (<i>Coturnix) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46	2.5	150
9	Sex steroids and their actions on the birdsong system. Journal of Neurobiology, 1997, 33, 619-631.	3.6	148
10	Female choice for male motor skills. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 3523-3528.	2.6	147
11	Aromatase is pre-synaptic and sexually dimorphic in the adult zebra finch brain. Proceedings of the Royal Society B: Biological Sciences, 2005, 272, 2089-2096.	2.6	141
12	Brain aromatase: New lessons from non-mammalian model systems. Frontiers in Neuroendocrinology, 2006, 27, 247-274.	5.2	132
13	Widespread Capacity for Steroid Synthesis in the Avian Brain and Song System. Endocrinology, 2006, 147, 5975-5987.	2.8	132
14	Aggressive interactions rapidly increase androgen synthesis in the brain during the non-breeding season. Hormones and Behavior, 2010, 57, 381-389.	2.1	129
15	Dehydroepiandrosterone Metabolism by 3Î²-Hydroxysteroid Dehydrogenase/Î”5-Î”4 Isomerase in Adult Zebra Finch Brain: Sex Difference and Rapid Effect of Stress. Endocrinology, 2004, 145, 1668-1677.	2.8	121
16	Fadrozole: A Potent and Specific Inhibitor of Aromatase in the Zebra Finch Brain. General and Comparative Endocrinology, 1994, 94, 53-61.	1.8	116
17	3Î²-Hydroxysteroid Dehydrogenase/Isomerase and Aromatase Activity in Primary Cultures of Developing Zebra Finch Telencephalon: Dehydroepiandrosterone as Substrate for Synthesis of Androstenedione and Estrogens. General and Comparative Endocrinology, 1996, 102, 342-350.	1.8	111
18	Androgen-metabolizing enzymes show region-specific changes across the breeding season in the brain of a wild songbird. Journal of Neurobiology, 1999, 41, 176-188.	3.6	106

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19	Androgen Synthesis in a Songbird: A Study of Cyp17 (17Î±-Hydroxylase/C17,20-Lyase) Activity in the Zebra Finch. General and Comparative Endocrinology, 1999, 113, 46-58.	1.8	104
20	Radial glia express aromatase in the injured zebra finch brain. Journal of Comparative Neurology, 2004, 475, 261-269.	1.6	99
21	The Expression of the Sex Steroid-Synthesizing Enzymes CYP11A1, 3Î²-HSD, CYP17, and CYP19 in Gonads and Adrenals of Adult and Developing Zebra Finches. General and Comparative Endocrinology, 2000, 119, 140-151.	1.8	96
22	Aromatase Activity in Quail Brain: Correlation with Aggressiveness*. Endocrinology, 1989, 124, 437-443.	2.8	93
23	Low sex steroids, high steroid receptors: Increasing the sensitivity of the nonreproductive brain. Developmental Neurobiology, 2007, 67, 57-67.	3.0	92
24	A comparison of aromatase, 5Î±-, and 5Î²- reductase activities in the brain and pituitary of male and female quail(C. c. japonica). The Journal of Experimental Zoology, 1987, 242, 171-180.	1.4	85
25	SEXUAL DIFFERENTIATION OF AVIAN BRAIN AND BEHAVIOR: Current Views on Gonadal Hormone-Dependent and Independent Mechanisms. Annual Review of Physiology, 1998, 60, 407-429.	13.1	79
26	Cloning of the zebra finch androgen synthetic enzyme CYP17: A study of its neural expression throughout posthatch development. Journal of Comparative Neurology, 2003, 467, 496-508.	1.6	77
27	In vivo steroid regulation of aromatase and 5Î±-reductase in goldfish brain and pituitary. General and Comparative Endocrinology, 1988, 71, 175-182.	1.8	76
28	The Passerine Hippocampus is a Site of High Aromatase: Inter- and Intraspecies Comparisons. Hormones and Behavior, 1998, 34, 85-97.	2.1	75
29	Androgen and the elaborate courtship behavior of a tropical lekking bird. Hormones and Behavior, 2007, 51, 62-68.	2.1	72
30	Testosterone and its effects on courtship in golden-collared manakins (Manacus vitellinus): Seasonal, sex, and age differences. Hormones and Behavior, 2007, 51, 69-76.	2.1	70
31	Sexual Differentiation of Brain and Behavior: The Zebra Finch is not Just a Flying Rat. Brain, Behavior and Evolution, 1993, 42, 231-241.	1.7	68
32	Testosterone increases display behaviors but does not stimulate growth of adult plumage in male golden-collared manakins (Manacus vitellinus). Hormones and Behavior, 2006, 49, 223-232.	2.1	68
33	Highâ€Speed Video Analysis Reveals Individual Variability in the Courtship Displays of Male Goldenâ€Collared Manakins. Ethology, 2007, 113, 964-972.	1.1	66
34	Presynaptic Control of Rapid Estrogen Fluctuations in the Songbird Auditory Forebrain. Journal of Neuroscience, 2011, 31, 10034-10038.	3.6	66
35	Peripheral Androgen Receptors Sustain the Acrobatics and Fine Motor Skill of Elaborate Male Courtship. Endocrinology, 2013, 154, 3168-3177.	2.8	64
36	Neural aromatization accelerates the acquisition of spatial memory via an influence on the songbird hippocampus. Hormones and Behavior, 2004, 45, 250-258.	2.1	63

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37	Subcellular compartmentalization of aromatase is sexually dimorphic in the adult zebra finch brain. Developmental Neurobiology, 2007, 67, 1-9.	3.0	63
38	Androgen effects on the development of the zebra finch song system. Brain Research, 1991, 561, 99-105.	2.2	60
39	Neurosteroids and brain sexual differentiation. Trends in Neurosciences, 2001, 24, 429-431.	8.6	60
40	Physiological control of elaborate male courtship: Female choice for neuromuscular systems. Neuroscience and Biobehavioral Reviews, 2014, 46, 534-546.	6.1	58
41	Estrogen Synthesis and Secretion in the Brown-Headed Cowbird (Molothrus ater). General and Comparative Endocrinology, 1997, 105, 390-401.	1.8	57
42	Steroidogenic enzymes along the ventricular proliferative zone in the developing songbird brain. Journal of Comparative Neurology, 2007, 502, 507-521.	1.6	56
43	Evolutionary patterns of adaptive acrobatics and physical performance predict expression profiles of androgen receptor â€" but not oestrogen receptor â€" in the forelimb musculature. Functional Ecology, 2015, 29, 1197-1208.	3.6	55
44	Limb Muscles Are Androgen Targets in an Acrobatic Tropical Bird. Endocrinology, 2010, 151, 1042-1049.	2.8	53
45	Hormones and the neuromuscular control of courtship in the golden-collared manakin (Manacus) Tj ETQq1 1 0.784314 rgBT /Overlock	5.2	53
46	Aromatase and 5?-reductase activity in cultures of developing zebra finch brain: An investigation of sex and regional differences. Journal of Neurobiology, 1995, 27, 240-251.	3.6	52
47	3Î²-HSD activates DHEA in the songbird brain. Neurochemistry International, 2008, 52, 611-620.	3.8	50
48	Presynaptic N-methyl-D-aspartate receptor expression is increased by estrogen in an aromatase-rich area of the songbird hippocampus. Journal of Comparative Neurology, 2004, 469, 522-534.	1.6	49
49	Birdsong and the neural production of steroids. Journal of Chemical Neuroanatomy, 2010, 39, 72-81.	2.1	49
50	Activities of 3Î²-HSD and aromatase in slices of developing and adult zebra finch brain. General and Comparative Endocrinology, 2007, 150, 26-33.	1.8	48
51	The Activity and Expression of Aromatase in Songbirds. Brain Research Bulletin, 1997, 44, 359-364.	3.0	46
52	Zebra finch aromatase gene expression is regulated in the brain through an alternate promoter. Gene, 1999, 240, 209-216.	2.2	46
53	Injury-Induced Regulation of Steroidogenic Gene Expression in the Cerebellum. Journal of Neurotrauma, 2010, 27, 1875-1882.	3.4	46
54	Neurosteroid production in the songbird brain: A re-evaluation of core principles. Frontiers in Neuroendocrinology, 2009, 30, 302-314.	5.2	45

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55	Androgens Regulate Gene Expression in Avian Skeletal Muscles. PLoS ONE, 2012, 7, e51482.	2.5	45
56	Estrogen Receptors in Quail Brain: A Functional Relationship to Aromatase and Aggressiveness1. Biology of Reproduction, 1989, 40, 268-275.	2.7	44
57	Androgen metabolism in the juvenile oscine forebrain: A cross-species analysis at neural sites implicated in memory function. , 1999, 40, 397-406.		41
58	Expression of androgen receptor in the brain of a sub-oscine bird with an elaborate courtship display. Neuroscience Letters, 2014, 578, 61-65.	2.1	41
59	Estradiol Synthesis and Action at the Synapse: Evidence for ?Synaptocrine? Signaling. Frontiers in Endocrinology, 2011, 2, 28.	3.5	39
60	Spinal Motor and Sensory Neurons Are Androgen Targets in an Acrobatic Bird. Endocrinology, 2012, 153, 3780-3791.	2.8	39
61	A method to quantify aggressiveness in Japanese quail (Coturnix c. japonica). Physiology and Behavior, 1987, 40, 343-348.	2.1	38
62	Adaptations for rapid and forceful contraction in wing muscles of the male golden-collared manakin: sex and species comparisons. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2001, 187, 677-684.	1.6	38
63	Research Resource: Hormones, Genes, and Athleticism: Effect of Androgens on the Avian Muscular Transcriptome. Molecular Endocrinology, 2016, 30, 254-271.	3.7	37
64	5?-Reductase and other Androgen-Metabolizing Enzymes in Primary Cultures of Developing Zebra Finch Telencephalon. Journal of Neuroendocrinology, 1995, 7, 187-192.	2.6	33
65	Recovery of motor and cognitive function after cerebellar lesions in a songbird â€" role of estrogens. European Journal of Neuroscience, 2009, 29, 1225-1234.	2.6	33
66	Low sex steroids, high steroid receptors: Increasing the sensitivity of the nonreproductive brain. Journal of Neurobiology, 2007, 67, 57-67.	3.6	33
67	Effects of Embryonic Treatment with Fadrozole on Phenotype of Gonads, Syrinx, and Neural Song System in Zebra Finches. General and Comparative Endocrinology, 1999, 115, 346-353.	1.8	32
68	Sex differences in cell proliferation and glucocorticoid responsiveness in the zebra finch brain. European Journal of Neuroscience, 2008, 28, 99-106.	2.6	32
69	Aromatase expression and cell proliferation following injury of the adult zebra finch hippocampus. Developmental Neurobiology, 2007, 67, 1867-1878.	3.0	31
70	Estrogen mediation of injuryâ€induced cell birth in neuroproliferative regions of the adult zebra finch brain. Developmental Neurobiology, 2007, 67, 1107-1117.	3.0	31
71	Neurosteroids and the songbird model system. Journal of Experimental Zoology Part A, Comparative Experimental Biology, 2006, 305A, 743-748.	1.3	30
72	Behavior, natural history and neuroendocrinology of a tropical bird. General and Comparative Endocrinology, 2008, 157, 254-258.	1.8	30

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73	Sex differences in the effects of captivity on hippocampus size in brown-headed cowbirds (Molothrus) Tj ETQq1 1 0.784314 rgBT /Overl	1.2	30
74	Regulation of aromatase, 5?- and 5?-reductase in primary cell cultures of developing zebra finch telencephalon. , 1998, 36, 30-40.		28
75	Perspectives on the evolution of animal dancing: a case study of manakins. Current Opinion in Behavioral Sciences, 2015, 6, 7-12.	3.9	28
76	Activities of Aromatase and 3Î²-Hydroxysteroid Dehydrogenase/Î”4-Î”5Isomerase in Whole Organ Cultures of Tissues from Developing Zebra Finches. Hormones and Behavior, 1998, 33, 31-39.	2.1	26
77	Telencephalic Aromatase but Not a Song Circuit in a Sub-Oscine Passerine, the Golden Collared Manakin <i>(Manacus vitellinus)</i>. Brain, Behavior and Evolution, 2000, 56, 29-37.	1.7	26
78	The presence of a female influences courtship performance of male manakins. Auk, 2015, 132, 594-603.	1.4	26
79	Neural and Hormonal Control of Birdsong. , 2002, , 799-839.		25
80	Combined Liquid and Solid-Phase Extraction Improves Quantification of Brain Estrogen Content. Frontiers in Neuroanatomy, 2011, 5, 57.	1.7	25
81	Neural expression and post-transcriptional dosage compensation of the steroid metabolic enzyme 17Î²-HSD type 4. BMC Neuroscience, 2010, 11, 47.	1.9	24
82	Peripheral androgen action helps modulate vocal production in a suboscine passerine. Auk, 2014, 131, 327-334.	1.4	22
83	Sex, estradiol, and spatial memory in a food-caching corvid. Hormones and Behavior, 2015, 75, 45-54.	2.1	22
84	Sexually Dimorphic Neural Phenotypes in Golden-Collared Manakins <i>(Manacus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50.302 Td (vi	1.7	22
85	Regionâ€specific rapid regulation of aromatase activity in zebra finch brain. Journal of Neurochemistry, 2016, 136, 1177-1185.	3.9	21
86	Neuromuscular and Endocrine Control of an Avian Courtship Behavior. Hormones and Behavior, 2001, 40, 276-280.	2.1	20
87	11Î²-hydroxysteroid dehydrogenase type 2 in zebra finch brain and peripheral tissues. General and Comparative Endocrinology, 2010, 166, 600-605.	1.8	20
88	Evolution of the androgen-induced male phenotype. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2018, 204, 81-92.	1.6	20
89	A putative 5Î±-reductase inhibitor demasculinizes portions of the zebra finch song system. Brain Research, 1997, 750, 122-128.	2.2	19
90	Western scrub-jays do not appear to attend to functionality in Aesopâ€™s Fable experiments. PeerJ, 2016, 4, e1707.	2.0	19

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91	Male Goldenâ€collared Manakins <i>Manacus vitellinus</i> do not adapt their courtship display to spatial alteration of their court. Ibis, 2012, 154, 173-176.	1.9	18
92	Sex differences in androgen activation of complex courtship behaviour. Animal Behaviour, 2017, 124, 109-117.	1.9	18
93	Expression of 5Î±- and 5Î²-reductase in spinal cord and muscle of birds with different courtship repertoires. Frontiers in Zoology, 2016, 13, 25.	2.0	17
94	Determination of the wingsnap sonation mechanism of the Golden-collared manakin (<i>Manacus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.7	16
95	Brain-Steroid Interactions and the Control of Aggressiveness in Birds. Neuroendocrine Perspectives, 1991, , 1-43.	0.6	16
96	Proximate and ultimate causes of male courtship behavior in Golden-collared Manakins. Journal of Ornithology, 2012, 153, 119-124.	1.1	15
97	Songbirds: A novel perspective on estrogens and the aging brain. Age, 2005, 27, 287-296.	3.0	14
98	Phenotypic flexibility of glucocorticoid signaling in skeletal muscles of a songbird preparing to migrate. Hormones and Behavior, 2019, 116, 104586.	2.1	14
99	ADVANCES IN AVIAN BEHAVIORAL ENDOCRINOLOGY. Auk, 2001, 118, 283.	1.4	14
100	Independent Differentiation of Sexual and Social Traits. Hormones and Behavior, 1996, 30, 600-610.	2.1	13
101	Establishing regional specificity of neuroestrogen action. General and Comparative Endocrinology, 2014, 205, 235-241.	1.8	13
102	11Î²-HSD Types 1 and 2 in the Songbird Brain. Frontiers in Endocrinology, 2018, 9, 86.	3.5	13
103	Subcellular compartmentalization of aromatase is sexually dimorphic in the adult zebra finch brain. Journal of Neurobiology, 2007, 67, 1-9.	3.6	13
104	The form, function, and evolutionary significance of neural aromatization. Frontiers in Neuroendocrinology, 2022, 64, 100967.	5.2	13
105	Neuromuscular mechanisms of an elaborate wing display in the golden-collared manakin (Manacus) Tj ETQq1 1 0.784314 rgBT /Overl	1.7	11
106	Across sex and age: Learning and memory and patterns of avian hippocampal gene expression.. Behavioral Neuroscience, 2017, 131, 483-491.	1.2	11
107	Layered evolution of gene expression in â€œsuperfastâ€•muscles for courtship. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2119671119.	7.1	11
108	Adaptive evolution of a derived radius morphology in manakins (Aves, Pipridae) to support acrobatic display behavior. Journal of Morphology, 2016, 277, 766-775.	1.2	10

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109	Determinants and significance of corticosterone regulation in the songbird brain. General and Comparative Endocrinology, 2016, 227, 136-142.	1.8	10
110	Sex-specific effects of testosterone on vocal output in a tropical suboscine bird. Animal Behaviour, 2019, 148, 105-112.	1.9	10
111	Advances in Avian Behavioral Endocrinology. Auk, 2001, 118, 283-289.	1.4	9
112	Steroids in the avian brain: heterogeneity across space and time. Journal of Ornithology, 2015, 156, 419-424.	1.1	9
113	Clearing up the court: sex and the endocrine basis of display-court manipulation. Animal Behaviour, 2017, 131, 115-121.	1.9	9
114	Preparing to migrate: expression of androgen signaling molecules and insulin-like growth factor-1 in skeletal muscles of Gambelâ€™s white-crowned sparrows. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2019, 205, 113-123.	1.6	9
115	Physiological innovation and the evolutionary elaboration of courtship behaviour. Animal Behaviour, 2022, 184, 185-195.	1.9	9
116	Estrogen synthesis and secretion by the songbird brain. , 1995, , 297-323.		8
117	In Vivo Detection of Fluctuating Brain Steroid Levels in Zebra Finches. Cold Spring Harbor Protocols, 2014, 2014, pdb.prot084616.	0.3	8
118	Neural and Hormonal Control of Birdsong. , 2017, , 255-290.		8
119	Muscle, a conduit to brain for hormonal control of behavior. Hormones and Behavior, 2018, 105, 58-65.	2.1	8
120	3Î²-HSD expression in the CNS of a manakin and finch. General and Comparative Endocrinology, 2018, 256, 43-49.	1.8	7
121	Steroidal and gonadal effects on neural cell proliferation in vitro in an adult songbird. Brain Research, 2010, 1351, 41-49.	2.2	6
122	Steroidogenesis and Neuroplasticity in the Songbird Brain. , 2008, , 201-216.		5
123	The stressed brain: regional and stressâ€related corticosterone and stressâ€regulated gene expression in the adult zebra finch (<i>Taeniopygia guttata</i>). Journal of Neuroendocrinology, 2020, 32, e12852.	2.6	4
124	Behavioral Sex Differences and Hormonal Control in a Bird with an Elaborate Courtship Display. Integrative and Comparative Biology, 2021, 61, 1319-1328.	2.0	4
125	Behavioral neuroendocrinology evolving: Contributions of comparative and field studies. Hormones and Behavior, 2005, 48, 349-351.	2.1	3
126	Song as Part of High Intensity Aggressive Interactions of Wintering White-Throated Sparrows. Condor, 1990, 92, 527.	1.6	2

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127	State-of-the art (Arnold) behavioral neuroendocrinology. Hormones and Behavior, 2011, 60, 1-3.	2.1	1
128	Hormonal control of behavior: novel mechanisms and model organisms. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2018, 204, 1-3.	1.6	1
129	Multidisciplinary science and the growth and future of behavioral neuroendocrinology: A perspective. Hormones and Behavior, 2020, 118, 104618.	2.1	1
130	11ÃŸ hydroxysteroid dehydrogenases regulate circulating glucocorticoids but not central gene expression. General and Comparative Endocrinology, 2021, 305, 113734.	1.8	1
131	Hormonal and Neuromuscular Regulation of Courtship Displays. , 2019, , 428-440.		0
132	In Memoriam, Roger A. Gorski (1935â€"2021). Frontiers in Neuroendocrinology, 2022, 64, 100969.	5.2	0
133	In fond memory of professor Kazuyoshi Tsutsui (1952â€"2021). Frontiers in Neuroendocrinology, 2022, 66, 100997.	5.2	0