Gregory F Ball

List of Publications by Year
in descending order

271 papers	19,468 citations	12330 69 h-index	14208 128 g-index
284 all docs	284 docs citations	284 times ranked	8106 citing authors

#	Article	IF	Citations
1	The "Challenge Hypothesis": Theoretical Implications for Patterns of Testosterone Secretion, Mating Systems, and Breeding Strategies. American Naturalist, 1990, 136, 829-846.	2.1	2,072
2	Revised nomenclature for avian telencephalon and some related brainstem nuclei. Journal of Comparative Neurology, 2004, 473, 377-414.	1.6	1,054
3	Avian brains and a new understanding of vertebrate brain evolution. Nature Reviews Neuroscience, 2005, 6, 151-159.	10.2	930
4	Photoperiodic Control of Seasonality in Birds. Journal of Biological Rhythms, 2001, 16, 365-380.	2.6	824
5	Sex Differences in the Brain: The Not So Inconvenient Truth. Journal of Neuroscience, 2012, 32, 2241-2247.	3.6	576
6	Is brain estradiol a hormone or a neurotransmitter?. Trends in Neurosciences, 2006, 29, 241-249.	8.6	357
7	New insights into the regulation and function of brain estrogen synthase (aromatase). Trends in Neurosciences, 1998, 21, 243-249.	8.6	246
8	The role of sex steroids in the acquisition and production of birdsong. Nature, 1988, 336, 770-772.	27.8	237
9	Immunocytochemical localization of androgen receptors in the male songbird and quail brain. Journal of Comparative Neurology, 1992, 317, 407-420.	1.6	233
10	Neuroendocrinology of Song Behavior and Avian Brain Plasticity: Multiple Sites of Action of Sex Steroid Hormones. Frontiers in Neuroendocrinology, 2002, 23, 137-178.	5.2	232
11	Effects of testosterone on cell-mediated and humoral immunity in non-breeding adult European starlings. Behavioral Ecology, 2000, 11, 654-662.	2.2	219
12	Changes in Plasma Levels of Luteinizing Hormone and Sex Steroid Hormones in Relation to Multiple-Broodedness and Nest-Site Density in Male Starlings. Physiological Zoology, 1987, 60, 191-199.	1.5	202
13	Functional significance of the rapid regulation of brain estrogen action: Where do the estrogens come from?. Brain Research, 2006, 1126, 2-26.	2.2	200
14	Appetitive and Consummatory Male Sexual Behavior in Japanese Quail Are Differentially Regulated by Subregions of the Preoptic Medial Nucleus. Journal of Neuroscience, 1998, 18, 6512-6527.	3.6	195
15	Topography in the preoptic region: Differential regulation of appetitive and consummatory male sexual behaviors. Frontiers in Neuroendocrinology, 2007, 28, 161-178.	5.2	188
16	Testosterone and avian life histories: The effect of experimentally elevated testosterone on corticosterone and body mass in dark-eyed juncos. Hormones and Behavior, 1991, 25, 489-503.	2.1	183
17	Hormonal regulation of brain circuits mediating male sexual behavior in birds. Physiology and Behavior, 2004, 83, 329-346.	2.1	180
18	Seasonal Changes in Courtship Song and the Medial Preoptic Area in Male European Starlings (Sturnus vulgaris). Hormones and Behavior, 2000, 38, 250-261.	2.1	175

#	ARTICLE	IF	CITATIONS
19	Sex differences in the response to environmental cues regulating seasonal reproduction in birds. Philosophical Transactions of the Royal Society B: Biological Sciences, 2008, 363, 231-246.	4.0	175
20	Androgen Receptor, Estrogen Receptor Î±, and Estrogen ReceptorÎ² Show Distinct Patterns of Expression in Forebrain Song Control Nuclei of European Starlings1. Endocrinology, 1999, 140, 4633-4643.	2.8	174
21	Lesions to the Medial Preoptic Area Affect Singing in the Male European Starling (Sturnus vulgaris). Hormones and Behavior, 1999, 36, 276-286.	2.1	163
22	Comparative studies of sex differences in the song-control system of songbirds. Trends in Neurosciences, 1999, 22, 432-436.	8.6	157
23	Rapid Control of Brain Aromatase Activity by Glutamatergic Inputs. Endocrinology, 2006, 147, 359-366.	2.8	153
24	Response biases in auditory forebrain regions of female songbirds following exposure to sexually relevant variation in male song. Journal of Neurobiology, 2001, 46, 48-58.	3.6	145
25	Parental Care in an Ecological Perspective: A Quantitative Analysis of Avian Subfamilies. American Zoologist, 1985, 25, 823-840.	0.7	142
26	Identification of the origin of catecholaminergic inputs to HVc in canaries by retrograde tract tracing combined with tyrosine hydroxylase immunocytochemistry. Journal of Chemical Neuroanatomy, 2000, 18, 117-133.	2.1	139
27	Individual variation and the endocrine regulation of behaviour and physiology in birds: a cellular/molecular perspective. Philosophical Transactions of the Royal Society B: Biological Sciences, 2008, 363, 1699-1710.	4.0	139
28	The Neural Integration of Environmental Information by Seasonally Breeding Birds. American Zoologist, 1993, 33, 185-199.	0.7	138
29	Preoptic aromatase modulates male sexual behavior: slow and fast mechanisms of action. Physiology and Behavior, 2004, 83, 247-270.	2.1	136
30	Seasonal Plasticity in the Song Control System: Multiple Brain Sites of Steroid Hormone Action and the Importance of Variation in Song Behavior. Annals of the New York Academy of Sciences, 2004, 1016, 586-610.	3.8	128
31	The Songbird Neurogenomics (SoNG) Initiative: Community-based tools and strategies for study of brain gene function and evolution. BMC Genomics, 2008, 9, 131.	2.8	126
32	Phosphorylation processes mediate rapid changes of brain aromatase activity. Journal of Steroid Biochemistry and Molecular Biology, 2001, 79, 261-277.	2.5	122
33	Distribution of aromatase-immunoreactive cells in the forebrain of zebra finches (Taeniopygia) Tj ETQq1 1 0.784314 rgBT /Overlock 10 hypothalamus. Journal of Neurobiology, 1996, 31, 129-148.	3.6	120
34	Do Sex Differences in the Brain Explain Sex Differences in the Hormonal Induction of Reproductive Behavior? What 25 Years of Research on the Japanese Quail Tells Us. Hormones and Behavior, 1996, 30, 627-661.	2.1	119
35	Neural bases of song preferences in female zebra finches (Taeniopygia guttata). NeuroReport, 1998, 9, 3047-3052.	1.2	114
36	Sexual differentiation of brain and behavior in birds. Trends in Endocrinology and Metabolism, 1995, 6, 21-29.	7.1	113

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37	Differential effects of global versus local testosterone on singing behavior and its underlying neural substrate. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19573-19578.	7.1	111
38	Fast regulation of steroid biosynthesis: a further piece in the neurosteroid puzzle. Trends in Neurosciences, 2000, 23, 57-58.	8.6	104
39	Recent experience modulates forebrain geneâ€“expression in response to mateâ€“choice cues in European starlings. Proceedings of the Royal Society B: Biological Sciences, 2002, 269, 2479-2485.	2.6	103
40	The origin of catecholaminergic inputs to the song control nucleus RA in canaries. NeuroReport, 2002, 13, 649-653.	1.2	101
41	Individual vocal recognition and the effect of partial lesions to HVc on discrimination, learning, and categorization of conspecific song in adult songbirds. Journal of Neurobiology, 2000, 42, 117-133.	3.6	98
42	Stimulatory Effects on the Reproductive Axis in Female Songbirds by Conspecific and Heterospecific Male Song. Hormones and Behavior, 2000, 37, 179-189.	2.1	98
43	Rapid effects of aromatase inhibition on male reproductive behaviors in Japanese quail. Hormones and Behavior, 2006, 49, 45-67.	2.1	98
44	Rapid control of male typical behaviors by brain-derived estrogens. Frontiers in Neuroendocrinology, 2012, 33, 425-446.	5.2	98
45	The Case of the Missing Mechanism: How Does Temperature Influence Seasonal Timing in Endotherms?. PLoS Biology, 2013, 11, e1001517.	5.6	96
46	Anatomical Localization of the Effects of 17Î²-Estradiol on Oxytocin Receptor Binding in the Ventromedial Hypothalamic Nucleus*. Endocrinology, 1989, 124, 207-211.	2.8	95
47	Temporal Flexibility in Avian Reproduction. , 1997, , 39-80.		95
48	Song predicts immunocompetence in male European starlings(Sturnus vulgaris). Proceedings of the Royal Society B: Biological Sciences, 2002, 269, 847-852.	2.6	94
49	Doublecortin as a marker of adult neuroplasticity in the canary song control nucleus HVC. European Journal of Neuroscience, 2008, 27, 801-817.	2.6	94
50	Estrogen receptor-? in quail: Cloning, tissue expression and neuroanatomical distribution. Journal of Neurobiology, 1999, 40, 327-342.	3.6	93
51	Photoperiodic Condition Modulates the Effects of Testosterone on Song Control Nuclei Volumes in Male European Starlings. General and Comparative Endocrinology, 1997, 105, 276-283.	1.8	92
52	Appetitive as well as consummatory aspects of male sexual behavior in quail are activated by androgens and estrogens.. Behavioral Neuroscience, 1995, 109, 485-501.	1.2	91
53	Estradiol, a key endocrine signal in the sexual differentiation and activation of reproductive behavior in quail. Journal of Experimental Zoology, 2009, 311A, 323-345.	1.2	89
54	Inhibition of Steroid Receptor Coactivator-1 Blocks Estrogen and Androgen Action on Male Sex Behavior and Associated Brain Plasticity. Journal of Neuroscience, 2005, 25, 906-913.	3.6	88

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55	Japanese Quail as a Model System for Studying the Neuroendocrine Control of Reproductive and Social Behaviors. ILAR Journal, 2010, 51, 310-325.	1.8	88
56	Is it useful to view the brain as a secondary sexual characteristic?. Neuroscience and Biobehavioral Reviews, 2014, 46, 628-638.	6.1	88
57	Time Course of the Estradiol-Dependent Induction of Oxytocin Receptor Binding in the Ventromedial Hypothalamic Nucleus of the Rat*. Endocrinology, 1989, 125, 1414-1419.	2.8	87
58	Changes in Brain GnRH Associated with Photorefractoriness in House Sparrows (Passer domesticus). General and Comparative Endocrinology, 1995, 99, 349-363.	1.8	86
59	Neural Mechanisms for the Coordination of Duet Singing in Wrens. Science, 2011, 334, 666-670.	12.6	85
60	Seasonal changes in the densities of Î±₂â€noradrenergic receptors are inversely related to changes in testosterone and the volumes of song control nuclei in male European starlings. Journal of Comparative Neurology, 2002, 444, 63-74.	1.6	84
61	Aromatase inhibition blocks the activation and sexual differentiation of appetitive male sexual behavior in Japanese quail.. Behavioral Neuroscience, 1997, 111, 381-397.	1.2	83
62	Neurochemical Specializations Associated with Vocal Learning and Production in Songbirds and Budgerigars. Brain, Behavior and Evolution, 1994, 44, 234-246.	1.7	81
63	Age- and behavior-related variation in volumes of song control nuclei in male European starlings. , 1996, 30, 329-339.		80
64	Photoperiod-Induced Testicular Apoptosis in European Starlings (Sturnus vulgaris)1. Biology of Reproduction, 2001, 64, 706-713.	2.7	78
65	Testosterone induction of song in photosensitive and photorefractory male sparrows. Hormones and Behavior, 1989, 23, 514-525.	2.1	77
66	Fosâ€like immunoreactivity in catecholaminergic brain nuclei after territorial behavior in freeâ€living song sparrows. Journal of Neurobiology, 2003, 56, 163-170.	3.6	77
67	Multiple mechanisms control brain aromatase activity at the genomic and non-genomic level. Journal of Steroid Biochemistry and Molecular Biology, 2003, 86, 367-379.	2.5	76
68	Testis-dependent and -independent effects of photoperiod on volumes of song control nuclei in American tree sparrows (Spizella arborea). Brain Research, 1997, 760, 163-169.	2.2	75
69	A role for norepinephrine in the regulation of contextâ€dependent ZENK expression in male zebra finches (<i>Taeniopygia guttata</i>). European Journal of Neuroscience, 2005, 21, 1962-1972.	2.6	75
70	Characterization and localization of D1 dopamine receptors in the sexually dimorphic vocal control nucleus, area X, and the basal ganglia of european starlings. Journal of Neurobiology, 1994, 25, 767-780.	3.6	74
71	Two histological markers reveal a similar photoperiodic difference in the volume of the high vocal center in male European starlings. Journal of Comparative Neurology, 1995, 360, 726-734.	1.6	73
72	Effects of Lesions of Nucleus taeniae on Appetitive and Consummatory Aspects of Male Sexual Behavior in Japanese Quail. Brain, Behavior and Evolution, 2002, 60, 13-35.	1.7	73

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73	How useful is the appetitive and consummatory distinction for our understanding of the neuroendocrine control of sexual behavior?. Hormones and Behavior, 2008, 53, 307-311.	2.1	73
74	Social Suppression of Song Is Associated With a Reduction in Volume of a Song-Control Nucleus in European Starlings (Sturnus vulgaris).. Behavioral Neuroscience, 2005, 119, 233-244.	1.2	70
75	Immunohistochemical localization of neuropeptides in the vocal control regions of two songbird species. Journal of Comparative Neurology, 1988, 268, 171-180.	1.6	69
76	Distribution ofÎ±2-adrenergic receptors in the brain of the Japanese quail as determined by quantitative autoradiography: implications for the control of sexually dimorphic reproductive processes. Brain Research, 1989, 491, 68-79.	2.2	66
77	Coordinated and dissociated effects of testosterone on singing behavior and song control nuclei in canaries (). Hormones and Behavior, 2005, 47, 467-476.	2.1	66
78	Sexual dimorphism in the volume of song control nuclei in European starlings: Assessment by a Nissl stain and autoradiography for muscarinic cholinergic receptors. Journal of Comparative Neurology, 1993, 334, 559-570.	1.6	65
79	Autoradiographic localization of Dl-like dopamine receptors in the forebrain of male and female Japanese quail and their relationship with immunoreactive tyrosine hydroxylase. Journal of Chemical Neuroanatomy, 1995, 9, 121-133.	2.1	65
80	Birdsong.. American Psychologist, 1998, 53, 37-58.	4.2	65
81	Interplay among catecholamine systems: Dopamine binds to Î±₂â€adrenergic receptors in birds and mammals. Journal of Comparative Neurology, 2008, 511, 610-627.	1.6	64
82	Effects of the noradrenergic neurotoxin DSP-4 on luteinizing hormone levels, catecholamine concentrations,Î±2-adrenergic receptor binding, and aromatase activity in the brain of the Japanese quail. Brain Research, 1989, 492, 163-175.	2.2	63
83	Muscarinic cholinergic receptors in the songbird and quail brain: A quantitative autoradiographic study. Journal of Comparative Neurology, 1990, 298, 431-442.	1.6	62
84	Sex differences in the volume of avian song control nuclei: Comparative studies and the issue of brain nucleus delineation. Psychoneuroendocrinology, 1994, 19, 485-504.	2.7	62
85	Social context affects testosterone-induced singing and the volume of song control nuclei in male canaries (Serinus canaria). Journal of Neurobiology, 2006, 66, 1044-1060.	3.6	61
86	Neuroendocrine Mechanisms Regulating Reproductive Cycles and Reproductive Behavior in Birds. , 2002, , 649-XII.		60
87	Seasonal Variation in Brain GnRH in Free-Living Breeding and Photorefractory House Finches (Carpodacus mexicanus). General and Comparative Endocrinology, 1998, 109, 244-250.	1.8	59
88	The Activation of Birdsong by Testosterone. Annals of the New York Academy of Sciences, 2003, 1007, 211-231.	3.8	58
89	Neuroestrogens Rapidly Regulate Sexual Motivation But Not Performance. Journal of Neuroscience, 2013, 33, 164-174.	3.6	58
90	The dual action of estrogen hypothesis. Trends in Neurosciences, 2015, 38, 408-416.	8.6	58

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91	Melatonin, immunity and cost of reproductive state in male European starlings. Proceedings of the Royal Society B: Biological Sciences, 1998, 265, 1191-1195.	2.6	57
92	Photoperiodic Regulation of the Reproductive Axis in Male Zebra Finches, Taeniopygia guttata. General and Comparative Endocrinology, 2000, 117, 449-455.	1.8	57
93	Functional differences in forebrain auditory regions during learned vocal recognition in songbirds. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2004, 190, 1001-1010.	1.6	57
94	The microtubule-associated protein doublecortin is broadly expressed in the telencephalon of adult canaries. Journal of Chemical Neuroanatomy, 2007, 33, 140-154.	2.1	57
95	Presence of aromatase and estrogen receptor alpha in the inner ear of zebra finches. Hearing Research, 2009, 252, 49-55.	2.0	56
96	Impact of experience-dependent and -independent factors on gene expression in songbird brain. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17245-17252.	7.1	55
97	Long-term potentiation in the avian hippocampus does not require activation of the N-methyl-D-aspartate (NMDA) receptor. Synapse, 1993, 13, 173-178.	1.2	54
98	Gonadal steroid receptor mRNA in catecholaminergic nuclei of the canary brainstem. Neuroscience Letters, 2001, 311, 189-192.	2.1	54
99	Seasonal and hormonal modulation of neurotransmitter systems in the song control circuit. Journal of Chemical Neuroanatomy, 2010, 39, 82-95.	2.1	53
100	Estrogen Receptor Î² Activation Rapidly Modulates Male Sexual Motivation through the Transactivation of Metabotropic Glutamate Receptor 1a. Journal of Neuroscience, 2015, 35, 13110-13123.	3.6	51
101	Testosterone Induction of Male-like Vocalizations in Female Budgerigars (Melopsittacus undulatus). Hormones and Behavior, 1996, 30, 162-169.	2.1	50
102	Reversing song behavior phenotype: Testosterone driven induction of singing and measures of song quality in adult male and female canaries (Serinus canaria). General and Comparative Endocrinology, 2015, 215, 61-75.	1.8	50
103	Song acquisition in photosensitive and photorefractory male European starlings. Hormones and Behavior, 1990, 24, 582-594.	2.1	49
104	The control of preoptic aromatase activity by afferent inputs in Japanese quail. Brain Research Reviews, 2001, 37, 38-58.	9.0	49
105	Sex steroidâ€induced neuroplasticity and behavioral activation in birds. European Journal of Neuroscience, 2010, 32, 2116-2132.	2.6	49
106	Androgen Receptor, Estrogen Receptor Â, and Estrogen Receptor Â Show Distinct Patterns of Expression in Forebrain Song Control Nuclei of European Starlings. Endocrinology, 1999, 140, 4633-4643.	2.8	49
107	Interactions between aromatase (estrogen synthase) and dopamine in the control of male sexual behavior in quail. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2002, 132, 37-55.	1.6	48
108	Early Administration of 17Î²-Estradiol Partially Masculinizes Song Control Regions and Î±2-Adrenergic Receptor Distribution in European Starlings (Sturnus vulgaris). Hormones and Behavior, 1996, 30, 387-406.	2.1	47

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109	Does sex or photoperiodic condition influence ZENK induction in response to song in European starlings?. Brain Research, 1999, 844, 78-82.	2.2	47
110	Evidence for Opioid Involvement in the Regulation of Song Production in Male European Starlings (Sturnus vulgaris).. Behavioral Neuroscience, 2005, 119, 245-255.	1.2	47
111	Androgens and Estrogens Synergistically Regulate the Expression of Doublecortin and Enhance Neuronal Recruitment in the Song System of Adult Female Canaries. Journal of Neuroscience, 2011, 31, 9649-9657.	3.6	47
112	Dynamic changes in brain aromatase activity following sexual interactions in males: Where, when and why?. Psychoneuroendocrinology, 2013, 38, 789-799.	2.7	47
113	Is sexual motivational state linked to dopamine release in the medial preoptic area?. Behavioral Neuroscience, 2010, 124, 300-304.	1.2	47
114	Seasonal Changes in Brain GnRH Immunoreactivity and Song-Control Nuclei Volumes in an Opportunistically Breeding Songbird. Brain, Behavior and Evolution, 2001, 58, 38-48.	1.7	46
115	Identity of gonadotropin-releasing hormone in passerine birds: Comparison of GnRH in song sparrow (Melospiza melodia) and starling (Sturnus vulgaris) with five vertebrate GnRHs. General and Comparative Endocrinology, 1988, 69, 341-351.	1.8	45
116	Induction of the Zenk protein after sexual interactions in male Japanese quail. NeuroReport, 1997, 8, 2965-2670.	1.2	45
117	Neuroanatomical specificity of sex differences in expression of aromatase mRNA in the quail brain. Journal of Chemical Neuroanatomy, 2007, 33, 75-86.	2.1	45
118	Noradrenergic Deficits Alter Processing of Communication Signals in Female Songbirds. Brain, Behavior and Evolution, 2008, 72, 207-214.	1.7	45
119	Endocrine and social regulation of adult neurogenesis in songbirds. Frontiers in Neuroendocrinology, 2016, 41, 3-22.	5.2	45
120	The effect of auditory distractors on song discrimination in male canaries (Serinus canaria). Behavioural Processes, 2005, 69, 331-341.	1.1	44
121	Dopamine release in the medial preoptic area is related to hormonal action and sexual motivation.. Behavioral Neuroscience, 2010, 124, 773-779.	1.2	44
122	Disruption of neuropsin mRNA expression via RNA interference facilitates the photoinduced increase in thyrotropinâ€stimulating subunit Î² in birds. European Journal of Neuroscience, 2012, 36, 2859-2865.	2.6	44
123	Photoperiodic induced changes in reproductive state of border canaries (Serinus canaria) are associated with marked variation in hypothalamic gonadotropin-releasing hormone immunoreactivity and the volume of song control regions. General and Comparative Endocrinology, 2008, 158, 10-19.	1.8	43
124	Aromatase inhibition rapidly affects in a reversible manner distinct features of birdsong. Scientific Reports, 2016, 6, 32344.	3.3	43
125	Pleiotropic Control by Testosterone of a Learned Vocal Behavior and Its Underlying Neuroplasticity. ENeuro, 2016, 3, ENEURO.0145-15.2016.	1.9	43
126	Anatomical relationships between aromatase and tyrosine hydroxylase in the quail brain: Double-label immunocytochemical studies. Journal of Comparative Neurology, 1998, 391, 214-226.	1.6	42

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127	Sex differences in songbirds 25 years later: What have we learned and where do we go?. Microscopy Research and Technique, 2001, 54, 327-334.	2.2	42
128	Noradrenergic projections to the song control nucleus area X of the medial striatum in male zebra finches (Taeniopygia guttata). Journal of Comparative Neurology, 2007, 502, 544-562.	1.6	42
129	Neural correlates of singing behavior in male zebra finches (Taeniopygia guttata). Journal of Neurobiology, 1998, 36, 421-430.	3.6	41
130	Fos induction in the Japanese quail brain after expression of appetitive and consummatory aspects of male sexual behavior. Brain Research Bulletin, 2000, 52, 249-262.	3.0	41
131	Steroid Receptor Coactivator SRC-1 Exhibits High Expression in Steroid-Sensitive Brain Areas Regulating Reproductive Behaviors in the Quail Brain. Neuroendocrinology, 2002, 76, 297-315.	2.5	41
132	Complementary neural systems for the experienceâ€dependent integration of mateâ€choice cues in European starlings. Journal of Neurobiology, 2005, 62, 72-81.	3.6	41
133	Anatomical localization of the effects of reproductive state, castration, and social milieu on cells immunoreactive for gonadotropinâ€releasing hormoneâ€I in male European starlings (<i>Sturnus) Tj ETQq1 1 0.784314 rgBT /Overlock	1.8	41
134	Diversity of mechanisms involved in aromatase regulation and estrogen action in the brain. Biochimica Et Biophysica Acta - General Subjects, 2010, 1800, 1094-1105.	2.4	41
135	Effects of the Aromatase Inhibitor R76713 On Sexual Differentiation of Brain and Behavior in Zebra Finches. Behaviour, 1994, 131, 225-259.	0.8	40
136	Sex differences in the densities of Î±2-adrenergic receptors in the song control system, but not the medial preoptic nucleus in zebra finches. Journal of Chemical Neuroanatomy, 2002, 23, 269-277.	2.1	40
137	Behavioral Effects of Brainâ€derived Estrogens in Birds. Annals of the New York Academy of Sciences, 2009, 1163, 31-48.	3.8	37
138	Endogenous versus exogenous markers of adult neurogenesis in canaries and other birds: Advantages and disadvantages. Journal of Comparative Neurology, 2014, 522, 4100-4120.	1.6	37
139	The regulation of birdsong by testosterone: Multiple time-scales and multiple sites of action. Hormones and Behavior, 2018, 104, 32-40.	2.1	37
140	The Avian Brain Nomenclature Forum: Terminology for a New Century in Comparative Neuroanatomy. Journal of Comparative Neurology, 2004, 473, E1-E6.	1.6	37
141	Prior Experience with Photostimulation Enhances Photo-Induced Reproductive Development in Female European Starlings: A Possible Basis for the Age-Related Increase in Avian Reproductive Performance1. Biology of Reproduction, 2004, 71, 979-986.	2.7	36
142	Organizing Effects of Sex Steroids on Brain Aromatase Activity in Quail. PLoS ONE, 2011, 6, e19196.	2.5	36
143	Steroid Sensitive Sites in the Avian Brain: Does the Distribution of the Estrogen Receptor Î± and Î² Types Provide Insight into Their Function?. Brain, Behavior and Evolution, 1999, 54, 28-40.	1.7	35
144	Sex differences in projections from preoptic area aromatase cells to the periaqueductal gray in Japanese quail. Journal of Comparative Neurology, 2007, 500, 894-907.	1.6	35

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145	Rapid action on neuroplasticity precedes behavioral activation by testosterone. Hormones and Behavior, 2008, 54, 488-495.	2.1	33
146	Species variation in the degree of sex differences in brain and behaviour related to birdsong: adaptations and constraints. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150117.	4.0	33
147	Sound sequences in birdsong: how much do birds really care?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190044.	4.0	33
148	Distribution of DARPP-32 immunoreactive structures in the quail brain: anatomical relationship with dopamine and aromatase. Journal of Chemical Neuroanatomy, 2001, 21, 23-39.	2.1	32
149	Catecholaminergic cell groups and vocal communication in male songbirds. Physiology and Behavior, 2008, 93, 870-876.	2.1	32
150	Colocalization of Immediate Early Genes in Catecholamine Cells after Song Exposure in Female Zebra Finches <i>(Taeniopygia guttata)</i>. Brain, Behavior and Evolution, 2012, 79, 252-260.	1.7	31
151	Dissociable Effects on Birdsong of Androgen Signaling in Cortex-Like Brain Regions of Canaries. Journal of Neuroscience, 2017, 37, 8612-8624.	3.6	31
152	Sex Differences in Brain Aromatase Activity: Genomic and Non-Genomic Controls. Frontiers in Endocrinology, 2011, 2, 34.	3.5	30
153	Doublecortin Is a Highly Valuable Endogenous Marker of Adult Neurogenesis in Canaries. Brain, Behavior and Evolution, 2014, 84, 1-4.	1.7	30
154	Perineuronal nets and vocal plasticity in songbirds: A proposed mechanism to explain the difference between closedâ€ended and openâ€ended learning. Developmental Neurobiology, 2017, 77, 975-994.	3.0	30
155	Long-term enhancement of synaptic responses in the songbird hippocampus. Brain Research, 1991, 538, 102-106.	2.2	29
156	Assessment of volumetric sex differences in the song control nuclei HVC and RA in zebra finches by immunocytochemistry for methionine enkephalin and vasoactive intestinal polypeptide. Brain Research, 1995, 699, 83-96.	2.2	29
157	Sex differences in the distribution of the steroid receptor coactivator SRC-1 in the song control nuclei of male and female canaries. Brain Research, 2003, 959, 263-274.	2.2	29
158	Photoperiodic response of the hypothalamoâ€pituitaryâ€gonad axis in male and female canaries, <i>Serinus canaria</i>. The Journal of Experimental Zoology, 2003, 296A, 143-151.	1.4	29
159	Targeting steroid receptor coactivator-1 expression with locked nucleic acids antisense reveals different thresholds for the hormonal regulation of male sexual behavior in relation to aromatase activity and protein expression. Behavioural Brain Research, 2006, 172, 333-343.	2.2	29
160	Photoperiodic Condition Is Associated with Region-Specific Expression of GNRH1 mRNA in the Preoptic Area of the Male Starling (Sturnus vulgaris)1. Biology of Reproduction, 2009, 81, 674-680.	2.7	29
161	Are rapid changes in gonadal testosterone release involved in the fast modulation of brain estrogen effects?. General and Comparative Endocrinology, 2009, 163, 298-305.	1.8	29
162	Information theory and the neuropeptidergic regulation of seasonal reproduction in mammals and birds. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 2477-2485.	2.6	29

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163	Testosterone regulates birdsong in an anatomically specific manner. Animal Behaviour, 2017, 124, 291-298.	1.9	29
164	Review: Brain, Hormone and Behavior Interactions in Avian Reproduction: Status and Prospectus. Condor, 1989, 91, 966.	1.6	27
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