Arthur P Arnold

List of Publications by Year
in descending order

230 papers	20,757 citations	8181 76 h-index	12272 133 g-index
237 all docs	237 docs citations	237 times ranked	14255 citing authors

#	Article	IF	Citations
1	Tissue-specific expression and regulation of sexually dimorphic genes in mice. Genome Research, 2006, 16, 995-1004.	5.5	785
2	The genome of a songbird. Nature, 2010, 464, 757-762.	27.8	770
3	Strategies and Methods for Research on Sex Differences in Brain and Behavior. Endocrinology, 2005, 146, 1650-1673.	2.8	679
4	Reframing sexual differentiation of the brain. Nature Neuroscience, 2011, 14, 677-683.	14.8	600
5	Sex Differences in the Brain: The Not So Inconvenient Truth. Journal of Neuroscience, 2012, 32, 2241-2247.	3.6	576
6	The organizationalâ€“activational hypothesis as the foundation for a unified theory of sexual differentiation of all mammalian tissues. Hormones and Behavior, 2009, 55, 570-578.	2.1	503
7	What does the â€œfour core genotypesâ€•mouse model tell us about sex differences in the brain and other tissues?. Frontiers in Neuroendocrinology, 2009, 30, 1-9.	5.2	480
8	A Model System for Study of Sex Chromosome Effects on Sexually Dimorphic Neural and Behavioral Traits. Journal of Neuroscience, 2002, 22, 9005-9014.	3.6	458
9	Sexually dimorphic motor nucleus in the rat lumbar spinal cord: Response to adult hormone manipulation, absence in androgen-insensitive rats. Brain Research, 1981, 225, 297-307.	2.2	391
10	Hormone concentrating cells in vocal control and other areas of the brain of the zebra finch (Poephila guttata). Journal of Comparative Neurology, 1976, 165, 487-511.	1.6	380
11	Sex chromosomes and brain gender. Nature Reviews Neuroscience, 2004, 5, 701-708.	10.2	331
12	A role for sex chromosome complement in the female bias in autoimmune disease. Journal of Experimental Medicine, 2008, 205, 1099-1108.	8.5	317
13	Dosage compensation is less effective in birds than in mammals. Journal of Biology, 2007, 6, 2.	2.7	304
14	Considering sex as a biological variable in preclinical research. FASEB Journal, 2017, 31, 29-34.	0.5	285
15	Sex chromosome genes directly affect brain sexual differentiation. Nature Neuroscience, 2002, 5, 933-934.	14.8	275
16	The effects of castration and androgen replacement on song, courtship, and aggression in zebra finches (Poephila guttata). The Journal of Experimental Zoology, 1975, 191, 309-325.	1.4	267
17	The Number of X Chromosomes Causes Sex Differences in Adiposity in Mice. PLoS Genetics, 2012, 8, e1002709.	3.5	247
18	Sex differences in sex chromosome gene expression in mouse brain. Human Molecular Genetics, 2002, 11, 1409-1419.	2.9	237

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19	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
20	Neural, not gonadal, origin of brain sex differences in a gynandromorphic finch. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 4873-4878.	7.1	230
21	Elucidating the Role of Gonadal Hormones in Sexually Dimorphic Gene Coexpression Networks. Endocrinology, 2009, 150, 1235-1249.	2.8	224
22	Sex Hormones and Sex Chromosomes Cause Sex Differences in the Development of Cardiovascular Diseases. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 746-756.	2.4	224
23	Sex Chromosome Complement and Gonadal Sex Influence Aggressive and Parental Behaviors in Mice. Journal of Neuroscience, 2006, 26, 2335-2342.	3.6	220
24	Sex differences in renal angiotensin converting enzyme 2 (ACE2) activity are 17Î²-oestradiol-dependent and sex chromosome-independent. Biology of Sex Differences, 2010, 1, 6.	4.1	218
25	A general theory of sexual differentiation. Journal of Neuroscience Research, 2017, 95, 291-300.	2.9	208
26	Evidence for a catecholaminergic projection to area X in the zebra finch. Journal of Comparative Neurology, 1981, 196, 347-354.	1.6	196
27	The end of gonad-centric sex determination in mammals. Trends in Genetics, 2012, 28, 55-61.	6.7	181
28	A Guide for the Design of Pre-clinical Studies on Sex Differences in Metabolism. Cell Metabolism, 2017, 25, 1216-1230.	16.2	179
29	Sexual dimorphism and the influence of neonatal androgen in the dorsolateral motor nucleus of the rat lumbar spinal cord. Brain Research, 1982, 249, 309-314.	2.2	170
30	The effects of castration on song development in zebra finches (Poephila guttata). The Journal of Experimental Zoology, 1975, 191, 261-277.	1.4	167
31	Sexual Differentiation of the Zebra Finch Song System. Annals of the New York Academy of Sciences, 2004, 1016, 540-559.	3.8	163
32	Are XX and XY brain cells intrinsically different?. Trends in Endocrinology and Metabolism, 2004, 15, 6-11.	7.1	153
33	Quantitative analysis of sex differences in hormone accumulation in the zebra finch brain: Methodological and theoretical issues. Journal of Comparative Neurology, 1980, 189, 421-436.	1.6	139
34	Genetically Triggered Sexual Differentiation of Brain and Behavior. Hormones and Behavior, 1996, 30, 495-505.	2.1	138
35	Sex chromosome complement regulates habit formation. Nature Neuroscience, 2007, 10, 1398-1400.	14.8	138
36	Minireview: Sex Chromosomes and Brain Sexual Differentiation. Endocrinology, 2004, 145, 1057-1062.	2.8	134

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37	Mouse Models for Evaluating Sex Chromosome Effects that Cause Sex Differences in Nonâ€Gonadal Tissues. Journal of Neuroendocrinology, 2009, 21, 377-386.	2.6	134
38	Neural correlates of female song in tropical duetting birds. Brain Research, 1985, 343, 104-112.	2.2	132
39	A Yin-Yang Effect between Sex Chromosome Complement and Sex Hormones on the Immune Response. Endocrinology, 2005, 146, 3280-3285.	2.8	129
40	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
41	Sexual differentiation of the zebra finch song system: Positive evidence, negative evidence, null hypotheses, and a paradigm shift. Journal of Neurobiology, 1997, 33, 572-584.	3.6	124
42	Sex Chromosome Effects Unmasked in Angiotensin Iiâ€“Induced Hypertension. Hypertension, 2010, 55, 1275-1282.	2.7	120
43	Fadrozole: A Potent and Specific Inhibitor of Aromatase in the Zebra Finch Brain. General and Comparative Endocrinology, 1994, 94, 53-61.	1.8	116
44	Sex differences in the pattern of steroidaccumulation by motoneurons of the rat lumbar spinal cord. Journal of Comparative Neurology, 1983, 215, 211-216.	1.6	114
45	Dissociation of Genetic and Hormonal Influences on Sex Differences in Alcoholism-Related Behaviors. Journal of Neuroscience, 2010, 30, 9140-9144.	3.6	114
46	Sex bias and dosage compensation in the zebra finch versus chicken genomes: General and specialized patterns among birds. Genome Research, 2010, 20, 512-518.	5.5	112
47	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
48	Gonadal- and Sex-Chromosome-Dependent Sex Differences in the Circadian System. Endocrinology, 2013, 154, 1501-1512.	2.8	109
49	A second X chromosome contributes to resilience in a mouse model of Alzheimerâ€™s disease. Science Translational Medicine, 2020, 12, .	12.4	107
50	XY sex chromosome complement, compared with XX, in the CNS confers greater neurodegeneration during experimental autoimmune encephalomyelitis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2806-2811.	7.1	106
51	The effects of perinatal testosterone exposure on the DNA methylome of the mouse brain are late-emerging. Biology of Sex Differences, 2014, 5, 8.	4.1	106
52	The X-linked histone demethylase Kdm6a in CD4+ T lymphocytes modulates autoimmunity. Journal of Clinical Investigation, 2019, 129, 3852-3863.	8.2	105
53	Masculinization of the female rat spinal cord following a single neonatal injection of testosterone propionate but not estradiol benzoate. Brain Research, 1982, 237, 173-181.	2.2	104
54	Changes in neuronal number, density and size account for increases in volume of song-control nuclei during song development in zebra finches. Neuroscience Letters, 1986, 67, 263-268.	2.1	104

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55	Sex Differences in Ischemic Stroke Sensitivity Are Influenced by Gonadal Hormones, Not by Sex Chromosome Complement. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 221-229.	4.3	101
56	Developmental plasticity in neural circuits controlling birdsong: Sexual differentiation and the neural basis of learning. Journal of Neurobiology, 1992, 23, 1506-1528.	3.6	100
57	Evidence for cholinergic participation in the control of bird song: Acetylcholinesterase distribution and muscarinic receptor autoradiography in the zebra finch brain. Journal of Comparative Neurology, 1981, 202, 211-219.	1.6	99
58	Sexual differentiation of androgen accumulation within the zebra finch brain through selective cell loss and addition. Journal of Comparative Neurology, 1987, 259, 393-399.	1.6	99
59	A primer on the use of mouse models for identifying direct sex chromosome effects that cause sex differences in non-gonadal tissues. Biology of Sex Differences, 2016, 7, 68.	4.1	99
60	Regional differences in dosage compensation on the chicken Z chromosome. Genome Biology, 2007, 8, R202.	9.6	98
61	Expression of androgen receptor mRNA in zebra finch song system: Developmental regulation by estrogen. Journal of Comparative Neurology, 2004, 469, 535-547.	1.6	96
62	Reduced threshold for cortical spreading depression in female mice. Annals of Neurology, 2007, 61, 603-606.	5.3	96
63	DEVELOPMENTAL PLASTICITY IN NEURAL CIRCUITS FOR A LEARNED BEHAVIOR. Annual Review of Neuroscience, 1997, 20, 459-481.	10.7	94
64	Chromosomal polymorphism and comparative painting analysis in the zebra finch. Chromosome Research, 2005, 13, 47-56.	2.2	94
65	Developmental Regulation of the Distribution of Aromatase- and Estrogen-Receptor- mRNA-Expressing Cells in the Zebra Finch Brain. Developmental Neuroscience, 1999, 21, 453-472.	2.0	92
66	Understanding the Sexome: Measuring and Reporting Sex Differences in Gene Systems. Endocrinology, 2012, 153, 2551-2555.	2.8	92
67	Sexual dimorphism and lack of seasonal changes in vocal control regions of the white-crowned sparrow brain. Brain Research, 1984, 295, 85-89.	2.2	90
68	Noxious effects of excessive currents used for intracortical microstimulation. Brain Research, 1975, 96, 103-107.	2.2	89
69	X and Y Chromosome Complement Influence Adiposity and Metabolism in Mice. Endocrinology, 2013, 154, 1092-1104.	2.8	89
70	The importance of having two X chromosomes. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150113.	4.0	89
71	Sex difference in neural tube defects in p53â€null mice is caused by differences in the complement of X not Y genes. Developmental Neurobiology, 2008, 68, 265-273.	3.0	88
72	A direct comparison of the masculinizing effects of testosterone, androstenedione, estrogen, and progesterone on the development of the zebra finch song system. Journal of Neurobiology, 1995, 26, 163-170.	3.6	87

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73	Metabolic impact of sex chromosomes. Adipocyte, 2013, 2, 74-79.	2.8	86
74	Differential distribution of the MeCP2 splice variants in the postnatal mouse brain. Journal of Comparative Neurology, 2007, 501, 526-542.	1.6	85
75	Sex chromosome complement affects nociception in tests of acute and chronic exposure to morphine in mice. Hormones and Behavior, 2008, 53, 124-130.	2.1	85
76	A Bird's-Eye View of Sex Chromosome Dosage Compensation. Annual Review of Genomics and Human Genetics, 2008, 9, 109-127.	6.2	84
77	Effects of androgens on volumes of sexually dimorphic brain regions in the zebra finch. Brain Research, 1980, 185, 441-444.	2.2	81
78	Conceptual frameworks and mouse models for studying sex differences in physiology and disease: Why compensation changes the game. Experimental Neurology, 2014, 259, 2-9.	4.1	79
79	Gene-by-Sex Interactions in Mitochondrial Functions and Cardio-Metabolic Traits. Cell Metabolism, 2019, 29, 932-949.e4.	16.2	79
80	Sex chromosome complement contributes to sex differences in coxsackievirus B3 but not influenza A virus pathogenesis. Biology of Sex Differences, 2011, 2, 8.	4.1	76
81	The number of X chromosomes influences protection from cardiac ischaemia/reperfusion injury in mice: one X is better than two. Cardiovascular Research, 2014, 102, 375-384.	3.8	74
82	Post-hatching inhibition of aromatase activity does not alter sexual differentiation of the zebra finch song system. Brain Research, 1994, 639, 347-350.	2.2	72
83	Ontogeny of androgen receptor immunoreactivity in lumbar motoneurons and in the sexually dimorphic levator ani muscle of male rats. Journal of Comparative Neurology, 1997, 379, 88-98.	1.6	72
84	Increased High-Density Lipoprotein Cholesterol Levels in Mice With XX Versus XY Sex Chromosomes. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 1778-1786.	2.4	72
85	Sexual Dimorphisms in the Neural Vocal Control System in Song Birds: Ontogeny and Phylogeny. Brain, Behavior and Evolution, 1986, 28, 22-31.	1.7	70
86	Lesions of HVc block the developmental masculinizing effects of estradiol in the female zebra finch song system. Journal of Neurobiology, 1991, 22, 29-39.	3.6	69
87	Are females more variable than males in gene expression? Meta-analysis of microarray datasets. Biology of Sex Differences, 2015, 6, 18.	4.1	69
88	Four Core Genotypes mouse model: localization of the Sry transgene and bioassay for testicular hormone levels. BMC Research Notes, 2015, 8, 69.	1.4	69
89	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
90	Immunohistochemical distribution of substance P, serotonin, and methionine enkephalin in sexually dimorphic nuclei of the rat lumbar spinal cord. Journal of Comparative Neurology, 1986, 248, 235-244.	1.6	67

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91	Two Perspectives on the Origin of Sex Differences in the Brain. Annals of the New York Academy of Sciences, 2003, 1007, 176-188.	3.8	67
92	X chromosome number causes sex differences in gene expression in adult mouse striatum. European Journal of Neuroscience, 2009, 29, 768-776.	2.6	66
93	Antiestrogens fail to prevent the masculine ontogeny of the zebra finch song system. General and Comparative Endocrinology, 1990, 80, 48-58.	1.8	64
94	Neither Testicular Androgens nor Embryonic Aromatase Activity Alters Morphology of the Neural Song System in Zebra Finches1. Biology of Reproduction, 1996, 55, 1126-1132.	2.7	63
95	Sexually dimorphic expression of trkB, a Z-linked gene, in early posthatch zebra finch brain. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 7730-7735.	7.1	63
96	Cellâ€autonomous sex determination outside of the gonad. Developmental Dynamics, 2013, 242, 371-379.	1.8	63
97	Zebra finch estrogen receptor cDNA: Cloning and mRNA expression. Journal of Steroid Biochemistry and Molecular Biology, 1996, 59, 135-145.	2.5	62
98	X chromosome dosage of histone demethylase KDM5C determines sex differences in adiposity. Journal of Clinical Investigation, 2020, 130, 5688-5702.	8.2	62
99	Comparison of the chicken and zebra finch Z chromosomes shows evolutionary rearrangements. Chromosome Research, 2006, 14, 805-815.	2.2	61
100	Hypothalamic oestrogen receptor alpha establishes a sexually dimorphic regulatory node of energy expenditure. Nature Metabolism, 2020, 2, 351-363.	11.9	61
101	Considering Sex as a Biological Variable in Basic and Clinical Studies: An Endocrine Society Scientific Statement. Endocrine Reviews, 2021, 42, 219-258.	20.1	61
102	Androgen effects on the development of the zebra finch song system. Brain Research, 1991, 561, 99-105.	2.2	60
103	Ontogeny of steroid accumulation in spinal lumbar motoneurons of the rat: Implications for androgen's site of action during synapse elimination. Journal of Comparative Neurology, 1991, 313, 441-448.	1.6	60
104	Report of the National Heart, Lung, and Blood Institute Working Group on Sex Differences Research in Cardiovascular Disease. Hypertension, 2016, 67, 802-807.	2.7	58
105	Four Core Genotypes and XY* mouse models: Update on impact on SABV research. Neuroscience and Biobehavioral Reviews, 2020, 119, 1-8.	6.1	57
106	Afferent neurons in the hypoglossal nerve of the zebra finch(Poephila guttata): Localization with horseradish peroxidase. Journal of Comparative Neurology, 1982, 210, 190-197.	1.6	56
107	Expression of androgen receptor mRNA in the late embryonic and early posthatch zebra finch brain. Journal of Comparative Neurology, 2003, 455, 513-530.	1.6	56
108	Sexually dimorphic expression of the X-linked gene Eif2s3x mRNA but not protein in mouse brain. Gene Expression Patterns, 2006, 6, 146-155.	0.8	56

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109	Androgenic regulation of dendritic trees of motoneurons in the spinal nucleus of the bulbocavernosus: Reconstruction after intracellular iontophoresis of horseradish peroxidase. Journal of Comparative Neurology, 1991, 308, 11-27.	1.6	55
110	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
111	Sex differences in diurnal rhythms of food intake in mice caused by gonadal hormones and complement of sex chromosomes. Hormones and Behavior, 2015, 75, 55-63.	2.1	55
112	Quantitative Analysis of Steroid Autoradiograms,. Journal of Histochemistry and Cytochemistry, 1981, 29, 207-211.	2.5	53
113	Lack of a synergistic effect between estradiol and dihydrotestosterone in the masculinization of the zebra finch song system. Journal of Neurobiology, 1995, 27, 513-519.	3.6	53
114	Parent-of-origin differences in DNA methylation of X chromosome genes in T lymphocytes. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 26779-26787.	7.1	53
115	Local intracerebral implants of estrogen masculinize some aspects of the zebra finch song system. Journal of Neurobiology, 1994, 25, 185-196.	3.6	52
116	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
117	Incorporating sex as a biological variable in neuroscience: what do we gain?. Nature Reviews Neuroscience, 2017, 18, 707-708.	10.2	52
118	Supraspinal projections to the ventromedial lumbar spinal cord in adult male rats. Journal of Comparative Neurology, 1990, 300, 263-272.	1.6	51
119	Neonatal Mice Possessing an Sry Transgene Show a Masculinized Pattern of Progesterone Receptor Expression in the Brain Independent of Sex Chromosome Status. Endocrinology, 2004, 145, 1046-1049.	2.8	51
120	What a Difference an X or Y Makes: Sex Chromosomes, Gene Dose, and Epigenetics in Sexual Differentiation. Handbook of Experimental Pharmacology, 2013, , 67-88.	1.8	51
121	Enkephalin-like immunoreactivity in vocal control regions of the zebra finch brain. Brain Research, 1981, 229, 236-240.	2.2	50
122	Neurogenesis of motoneurons in the sexually dimorphic spinal nucleus of the bulbocavernosus in rats. Developmental Brain Research, 1983, 9, 39-43.	1.7	50
123	Distribution of GABA-like immunoreactivity in the song system of the zebra finch. Brain Research, 1994, 651, 115-122.	2.2	50
124	Expression of estrogen receptor and aromatase mRNAs in embryonic and posthatch zebra finch brain. Journal of Neurobiology, 2003, 55, 204-219.	3.6	50
125	The Y Chromosome Plays a Protective Role in Experimental Hypoxic Pulmonary Hypertension. American Journal of Respiratory and Critical Care Medicine, 2018, 197, 952-955.	5.6	50
126	Sexual Differentiation of the Brain in Songbirds. Developmental Neuroscience, 1996, 18, 124-136.	2.0	49

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127	Song Lateralization in the Zebra Finch. Hormones and Behavior, 1997, 31, 25-34.	2.1	48
128	XX sex chromosome complement promotes atherosclerosis in mice. Nature Communications, 2019, 10, 2631.	12.8	48
129	Zebra finch aromatase gene expression is regulated in the brain through an alternate promoter. Gene, 1999, 240, 209-216.	2.2	46
130	Promoting the understanding of sex differences to enhance equity and excellence in biomedical science. Biology of Sex Differences, 2010, 1, 1.	4.1	46
131	Tamoxifen's effects on the zebra finch song system are estrogenic, not antiestrogenic. Journal of Neurobiology, 1991, 22, 957-969.	3.6	45
132	Interaction of BDNF and testosterone in the regulation of adult perineal motoneurons. Journal of Neurobiology, 2000, 44, 308-319.	3.6	45
133	Molecular cloning and characterization of the germline-restricted chromosome sequence in the zebra finch. Chromosoma, 2009, 118, 527-536.	2.2	45
134	Hormone accumulation in song regions of the canary brain. Journal of Neurobiology, 1992, 23, 871-880.	3.6	44
135	Sex Chromosome Complement Affects Nociception and Analgesia in Newborn Mice. Journal of Pain, 2008, 9, 962-969.	1.4	44
136	Effects of embryonic estrogen on differentiation of the gonads and secondary sexual characteristics of male zebra finches. , 1997, 278, 405-411.		43
137	Sexual differentiation of brain and other tissues: Five questions for the next 50Âyears. Hormones and Behavior, 2020, 120, 104691.	2.1	43
138	Accumulation of estrogen in a vocal control brain region of a duetting song bird. Brain Research, 1989, 480, 119-125.	2.2	42
139	Concepts of Genetic and Hormonal Induction of Vertebrate Sexual Differentiation in the Twentieth Century, with Special Reference to the Brain. , 2002, , 105-135.		42
140	A cDNA microarray from the telencephalon of juvenile male and female zebra finches. Journal of Neuroscience Methods, 2004, 138, 199-206.	2.5	42
141	Rethinking sex determination of non-gonadal tissues. Current Topics in Developmental Biology, 2019, 134, 289-315.	2.2	42
142	Lack of sexual dimorphism in steroid accumulation in vocal control brain regions of duetting song birds. Brain Research, 1985, 344, 172-175.	2.2	40
143	Synapse elimination occurs late in the hormone-sensitive levator ani muscle of the rat. Journal of Neurobiology, 1988, 19, 335-356.	3.6	40
144	Sex Differences in Structure and Expression of the Sex Chromosome Genes CHD1Z and CHD1W in Zebra Finches. Molecular Biology and Evolution, 2004, 21, 384-396.	8.9	40

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145	Diet, gonadal sex, and sex chromosome complement influence white adipose tissue miRNA expression. BMC Genomics, 2017, 18, 89.	2.8	40
146	Plasma Estrogens and Brain Aromatase in Winter White-Crowned Sparrows. Ornis Scandinavica, 1992, 23, 292.	1.0	39
147	Gap junctions between lateral spinal motoneurons in the rat. Brain Research, 1989, 495, 362-366.	2.2	38
148	Systems biology asks new questions about sex differences. Trends in Endocrinology and Metabolism, 2009, 20, 471-476.	7.1	38
149	Auditory and hormonal stimulation interact to produce neural growth in adult canaries. Journal of Neurobiology, 1986, 17, 605-612.	3.6	37
150	Cardiac proteomics reveals sex chromosome-dependent differences between males and females that arise prior to gonad formation. Developmental Cell, 2021, 56, 3019-3034.e7.	7.0	37
151	The effects of systemic androgen treatment on androgen accumulation in song control regions of the adult female canary brain. Journal of Neurobiology, 1990, 21, 837-843.	3.6	35
152	X chromosome escapee genes are involved in ischemic sexual dimorphism through epigenetic modification of inflammatory signals. Journal of Neuroinflammation, 2021, 18, 70.	7.2	35
153	Logical Levels of Steroid Hormone Action in the Control of Vertebrate Behavior. American Zoologist, 1981, 21, 233-242.	0.7	33
154	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
155	Antiandrogen blocks estrogen-induced masculinization of the song system in female zebra finches. Journal of Neurobiology, 2002, 51, 1-8.	3.6	33
156	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
157	Steroid autoradiography of the sexually dimorphic nucleus of the preoptic area. Brain Research, 1987, 414, 349-356.	2.2	31
158	Critical period for androgenic regulation of soma size of sexually dimorphic motoneurons in rat lumbar spinal cord. Neuroscience Letters, 1989, 98, 79-84.	2.1	31
159	Transient and permanent effects of androgen during synapse elimination in the levator ani muscle of the rat. Journal of Neurobiology, 1992, 23, 1-9.	3.6	31
160	Axotomy transiently down-regulates androgen receptors in motoneurons of the spinal nucleus of the bulbocavernosus. Brain Research, 1995, 694, 61-68.	2.2	31
161	The Sex Chromosome Trisomy mouse model of XXY and XYY: metabolism and motor performance. Biology of Sex Differences, 2013, 4, 15.	4.1	31
162	Evidence for Target Regulations of the Development of Androgen Sensitivity in Rat Spinal Motoneurons. Developmental Neuroscience, 1995, 17, 106-117.	2.0	30

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163	Sexual Inequality in the Cancer Cell. Cancer Research, 2018, 78, 5504-5505.	0.9	29
164	Spatially and temporally specific expression in mouse hippocampus of Usp9x, a ubiquitin-specific protease involved in synaptic development. Journal of Neuroscience Research, 2005, 80, 47-55.	2.9	28
165	The distribution of expression of doublecortin (DCX) mRNA and protein in the zebra finch brain. Brain Research, 2006, 1106, 189-196.	2.2	27
166	Y chromosomeâ€™s roles in sex differences in disease. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3787-3789.	7.1	27
167	Importance of target innervation in recovery from axotomy-induced loss of androgen receptor in rat perineal motoneurons. Journal of Neurobiology, 1995, 28, 341-353.	3.6	26
168	Sex chromosome complement influences operant responding for a palatable food in mice. Genes, Brain and Behavior, 2014, 13, 527-534.	2.2	26
169	The passerine bird song system as a model in neuroendocrine research. The Journal of Experimental Zoology, 1990, 256, 22-30.	1.4	25
170	BDNF regulation of androgen receptor expression in axotomized SNB motoneurons of adult male rats. Brain Research, 2000, 852, 127-139.	2.2	25
171	Utilization of a zebra finch BAC library to determine the structure of an avian androgen receptor genomic region. Genomics, 2006, 87, 181-190.	2.9	25
172	Karyotypic polymorphism of the zebra finch Z chromosome. Chromosoma, 2011, 120, 255-264.	2.2	25
173	Cerebral Lateralization in Birds. , 1985, , 11-39.		25
174	Neural expression and post-transcriptional dosage compensation of the steroid metabolic enzyme 17Î²-HSD type 4. BMC Neuroscience, 2010, 11, 47.	1.9	24
175	Factors Causing Sex differences in Birds. Avian Biology Research, 2011, 4, 44-51.	0.9	24
176	Y-Chromosome Gene, Uty, Protects Against Pulmonary Hypertension by Reducing Proinflammatory Chemokines. American Journal of Respiratory and Critical Care Medicine, 2022, 206, 186-196.	5.6	24
177	The Ontogeny of Vocal Learning in Songbirds. Handbook of Behavioral Neurobiology, 1986, , 129-161.	0.3	23
178	Primate DAX1, SRY, and SOX9: Evolutionary Stratification of Sex-Determination Pathway. American Journal of Human Genetics, 2001, 68, 275-280.	6.2	21
179	Effects of long-term flutamide treatment during development in zebra finches. Neuroscience Letters, 2007, 418, 92-96.	2.1	21
180	Axotomy of developing rat spinal motoneurons: Cell survival, soma size, muscle recovery, and the influence of testosterone. Journal of Neurobiology, 1995, 26, 225-240.	3.6	20

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