Claudio V Mello

List of Publications by Year
in descending order

109 papers	12,176 citations	87723 38 h-index	35952 97 g-index
116 all docs	116 docs citations	116 times ranked	9244 citing authors

#	Article	IF	Citations
1	Whole-genome analyses resolve early branches in the tree of life of modern birds. Science, 2014, 346, 1320-1331.	6.0	1,583
2	Towards complete and error-free genome assemblies of all vertebrate species. Nature, 2021, 592, 737-746.	13.7	1,139
3	Revised nomenclature for avian telencephalon and some related brainstem nuclei. Journal of Comparative Neurology, 2004, 473, 377-414.	0.9	1,054
4	Avian brains and a new understanding of vertebrate brain evolution. Nature Reviews Neuroscience, 2005, 6, 151-159.	4.9	930
5	Comparative genomics reveals insights into avian genome evolution and adaptation. Science, 2014, 346, 1311-1320.	6.0	895
6	The genome of a songbird. Nature, 2010, 464, 757-762.	13.7	770
7	Auditory pathways of caudal telencephalon and their relation to the song system of adult male zebra finches (Taenopygia guttata). , 1996, 366, 613-642.		473
8	Convergent transcriptional specializations in the brains of humans and song-learning birds. Science, 2014, 346, 1256846.	6.0	379
9	Behaviourally driven gene expression reveals song nuclei in hummingbird brain. Nature, 2000, 406, 628-632.	13.7	279
10	Dense sampling of bird diversity increases power of comparative genomics. Nature, 2020, 587, 252-257.	13.7	251
11	Induction of Hippocampal Long-Term Potentiation during Waking Leads to Increased Extrahippocampalzif-268Expression during Ensuing Rapid-Eye-Movement Sleep. Journal of Neuroscience, 2002, 22, 10914-10923.	1.7	231
12	A New Chicken Genome Assembly Provides Insight into Avian Genome Structure. G3: Genes, Genomes, Genetics, 2017, 7, 109-117.	0.8	228
13	ZENK protein regulation by song in the brain of songbirds. , 1998, 393, 426-438.		209
14	Brain Gene Expression During REM Sleep Depends on Prior Waking Experience. Learning and Memory, 1999, 6, 500-508.	0.5	201
15	Toward a Song Code. Neuron, 1998, 21, 359-371.	3.8	173
16	Descending auditory pathways in the adult male zebra finch (Taeniopygia Guttata). Journal of Comparative Neurology, 1998, 395, 137-160.	0.9	172
17	Molecular mapping of brain areas involved in parrot vocal communication. , 2000, 419, 1-31.		156
18	Songbirds and the Revised Avian Brain Nomenclature. Annals of the New York Academy of Sciences, 2004, 1016, 77-108.	1.8	146

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19	Song-Induced Gene Expression: A Window on Song Auditory Processing and Perception. Annals of the New York Academy of Sciences, 2004, 1016, 263-281.	1.8	127
20	The Songbird Neurogenomics (SoNG) Initiative: Community-based tools and strategies for study of brain gene function and evolution. BMC Genomics, 2008, 9, 131.	1.2	126
21	Descending auditory pathways in the adult male zebra finch (Taeniopygia Guttata). , 1998, 395, 137.		124
22	Conserved syntenic clusters of protein coding genes are missing in birds. Genome Biology, 2014, 15, 565.	3.8	123
23	Noradrenergic system of the zebra finch brain: Immunocytochemical study of dopamine-?-hydroxylase. Journal of Comparative Neurology, 1998, 400, 207-228.	0.9	119
24	Significance of vitamin A to brain function, behavior and learning. Molecular Nutrition and Food Research, 2010, 54, 489-495.	1.5	99
25	Co-induction of activity-dependent genes in songbirds. European Journal of Neuroscience, 2005, 22, 1667-1678.	1.2	89
26	Site-Specific Retinoic Acid Production in the Brain of Adult Songbirds. Neuron, 2000, 27, 359-370.	3.8	88
27	Birdsong â€œTranscriptomicsâ€• Neurochemical Specializations of the Oscine Song System. PLoS ONE, 2008, 3, e3440.	1.1	85
28	Differential induction of theZENK gene in the avian forebrain and song control circuit after metrazole-induced depolarization. Journal of Neurobiology, 1995, 26, 145-161.	3.7	71
29	Mapping vocal communication pathways in birds with inducible gene expression. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2002, 188, 943-959.	0.7	69
30	Digital atlas of the zebra finch (Taeniopygia guttata) brain: A highâ€resolution photo atlas. Journal of Comparative Neurology, 2013, 521, 3702-3715.	0.9	67
31	GABAergic neurons participate in the brain's response to birdsong auditory stimulation. European Journal of Neuroscience, 2004, 20, 1318-1330.	1.2	59
32	Brain gene regulation by territorial singing behavior in freely ranging songbirds. NeuroReport, 1997, 8, 2073-2077.	0.6	57
33	Auditory topography and temporal response dynamics of canary caudal telencephalon. Journal of Neurobiology, 2006, 66, 281-292.	3.7	55
34	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.	3.3	55
35	Inhibitory Network Interactions Shape the Auditory Processing of Natural Communication Signals in the Songbird Auditory Forebrain. Journal of Neurophysiology, 2008, 100, 441-455.	0.9	52
36	Parrot Genomes and the Evolution of Heightened Longevity and Cognition. Current Biology, 2018, 28, 4001-4008.e7.	1.8	52

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37	Immediate-early gene responses in the avian song control system: cloning and expression analysis of the canary c-jun cDNA. Molecular Brain Research, 1994, 27, 299-309.	2.5	48
38	Calbindin-positive neurons reveal a sexual dimorphism within the songbird analogue of the mammalian auditory cortex. Journal of Neurobiology, 2006, 66, 182-195.	3.7	48
39	A Modular Approach to Vocal Learning: Disentangling the Diversity of a Complex Behavioral Trait. Neuron, 2019, 104, 87-99.	3.8	47
40	GABA immunoreactivity in auditory and song control brain areas of zebra finches. Journal of Chemical Neuroanatomy, 2007, 34, 1-21.	1.0	46
41	From songs to synapses: Molecular mechanisms of birdsong memory. BioEssays, 2011, 33, 377-385.	1.2	45
42	Molecular architecture of the zebra finch arcopallium. Journal of Comparative Neurology, 2019, 527, 2512-2556.	0.9	42
43	Noradrenergic Control of Gene Expression and Long-Term Neuronal Adaptation Evoked by Learned Vocalizations in Songbirds. PLoS ONE, 2012, 7, e36276.	1.1	41
44	Gene Expression and Synaptic Plasticity in the Auditory Forebrain of Songbirds. Learning and Memory, 2000, 7, 235-243.	0.5	38
45	Detection of two mRNA species at single-cell resolution by double-fluorescence in situ hybridization. Nature Protocols, 2008, 3, 1370-1379.	5.5	38
46	The Avian Brain Nomenclature Forum: Terminology for a New Century in Comparative Neuroanatomy. Journal of Comparative Neurology, 2004, 473, E1-E6.	0.9	37
47	Activation of frontal neocortical areas by vocal production in marmosets. Frontiers in Integrative Neuroscience, 2010, 4, .	1.0	36
48	Comparative genomics reveals molecular features unique to the songbird lineage. BMC Genomics, 2014, 15, 1082.	1.2	32
49	Genomics analysis of potassium channel genes in songbirds reveals molecular specializations of brain circuits for the maintenance and production of learned vocalizations. BMC Genomics, 2013, 14, 470.	1.2	31
50	Isolation of Song-Regulated Genes in the Brain of Songbirds. , 1997, 85, 205-218.		30
51	Species differences in auditory processing dynamics in songbird auditory telencephalon. Developmental Neurobiology, 2007, 67, 1498-1510.	1.5	30
52	The Zebra Finch, Taeniopygia guttata: An Avian Model for Investigating the Neurobiological Basis of Vocal Learning. Cold Spring Harbor Protocols, 2014, 2014, pdb.emo084574.	0.2	30
53	ZEBrA: Zebra finch Expression Brain Atlasâ€"A resource for comparative molecular neuroanatomy and brain evolution studies. Journal of Comparative Neurology, 2020, 528, 2099-2131.	0.9	30
54	Synapsins Are Late Activity-Induced Genes Regulated by Birdsong. Journal of Neuroscience, 2008, 28, 11871-11882.	1.7	26

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55	Identification and characterization of primordial germ cells in a vocal learning Neoaves species, the zebra finch. FASEB Journal, 2019, 33, 13825-13836.	0.2	26
56	Serotonin, via HTR2 Receptors, Excites Neurons in a Cortical-like Premotor Nucleus Necessary for Song Learning and Production. Journal of Neuroscience, 2011, 31, 13808-13815.	1.7	25
57	The constitutive differential transcriptome of a brain circuit for vocal learning. BMC Genomics, 2018, 19, 231.	1.2	25
58	An Optimized Protocol for High-Throughput In Situ Hybridization of Zebra Finch Brain. Cold Spring Harbor Protocols, 2014, 2014, pdb.prot084582.	0.2	24
59	Control of Phasic Firing by a Background Leak Current in Avian Forebrain Auditory Neurons. Frontiers in Cellular Neuroscience, 2015, 9, 471.	1.8	24
60	Gene regulation by song in the auditory telencephalon of songbirds. Frontiers in Bioscience - Landmark, 2004, 9, 63.	3.0	23
61	Sleep-dependent gene expression in the hippocampus and prefrontal cortex following long-term potentiation. Physiology and Behavior, 2009, 98, 44-52.	1.0	23
62	Brain expression and song regulation of the cholecystokinin gene in the zebra finch (Taeniopygia) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.9	22
63	Dynamic gene expression in the song system of zebra finches during the song learning period. Developmental Neurobiology, 2015, 75, 1315-1338.	1.5	21
64	Identification of differentially expressed transcripts in the human pathogenic fungusParacoccidioides brasiliensisby differential display. Medical Mycology, 2002, 40, 45-51.	0.3	20
65	The excitatory thalamoâ€â€œcorticalâ€•projection within the song control system of zebra finches is formed by calbindinâ€expressing neurons. Journal of Comparative Neurology, 2007, 504, 601-618.	0.9	19
66	Dietary retinoic acid affects song maturation and gene expression in the song system of the zebra finch. Developmental Neurobiology, 2008, 68, 1213-1224.	1.5	19
67	Molecular targets of disulfiram action on song maturation in zebra finches. Molecular Brain Research, 2001, 87, 246-250.	2.5	18
68	Resurgent Na+ currents promote ultrafast spiking in projection neurons that drive fine motor control. Nature Communications, 2021, 12, 6762.	5.8	18
69	Molecular specializations of deep cortical layer analogs in songbirds. Scientific Reports, 2020, 10, 18767.	1.6	17
70	Drinking Songs: Alcohol Effects on Learned Song of Zebra Finches. PLoS ONE, 2014, 9, e115427.	1.1	16
71	A putative RA-like region in the brain of the scale-backed antbird, Willisornis poecilinotus (Furnariides, Suboscines, Passeriformes, Thamnophilidae). Genetics and Molecular Biology, 2015, 38, 249-254.	0.6	16
72	The opportunities and challenges of large-scale molecular approaches to songbird neurobiology. Neuroscience and Biobehavioral Reviews, 2015, 50, 70-76.	2.9	16

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73	Enriched expression and developmental regulation of the middle-weight neurofilament (NF-m) gene in song control nuclei of the zebra finch. Journal of Comparative Neurology, 2007, 500, 477-497.	0.9	15
74	VOCALIZATIONS AND ASSOCIATED BEHAVIORS OF THE SOMBRE HUMMINGBIRD (APHANTOCHROA) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.7	14
75	Proper Care, Husbandry, and Breeding Guidelines for the Zebra Finch, Taeniopygia guttata. Cold Spring Harbor Protocols, 2014, 2014, pdb.prot084780.	0.2	14
76	Cloning and expression analysis of retinoic acid receptors in the zebra finch brain. Journal of Comparative Neurology, 2005, 489, 23-41.	0.9	13
77	Conservation and expression of IQâ€domainâ€containing calpacitin gene products (neuromodulin/GAPâ€43,) Tj ETQq1 1 0.784314 rgBT Neurobiology, 2009, 69, 124-140.	1.5	13
78	Light-induced Egr-1 expression in the striate cortex of the opossum. Brain Research Bulletin, 2003, 61, 139-146.	1.4	12
79	Accelerated Evolution of PAK3- and PIM1-like Kinase Gene Families in the Zebra Finch, Taeniopygia guttata. Molecular Biology and Evolution, 2010, 27, 1923-1934.	3.5	12
80	Organization and development of zebra finch HVC and paraHVC based on expression of zRalDH, an enzyme associated with retinoic acid production. Journal of Comparative Neurology, 2011, 519, 148-161.	0.9	12
81	Black Jacobin hummingbirds vocalize above the known hearing range of birds. Current Biology, 2018, 28, R204-R205.	1.8	12
82	Exploring the molecular basis of neuronal excitability in a vocal learner. BMC Genomics, 2019, 20, 629.	1.2	12
83	Increased bursting glutamatergic neurotransmission in an auditory forebrain area of the zebra finch (Taenopygia guttata) induced by auditory stimulation. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2012, 198, 705-716.	0.7	10
84	Living without DAT: Loss and compensation of the dopamine transporter gene in sauropsids (birds and) Tj ETQq0 0 0 rgBT /Overlock 10	1.6	10
85	Response to Hron et al.. Genome Biology, 2015, 16, 165.	3.8	10
86	An automated system for the mapping and quantitative analysis of immunocytochemistry of an inducible nuclear protein. Journal of Neuroscience Methods, 1999, 87, 147-158.	1.3	9
87	Hippocampal functional organization: A microstructure of the place cell network encoding space. Neurobiology of Learning and Memory, 2019, 161, 122-134.	1.0	9
88	Immediate Early Gene Regulation in the Auditory System. , 2006, , 35-56.		9
89	Long-Distance Retinoid Signaling in the Zebra Finch Brain. PLoS ONE, 2014, 9, e111722.	1.1	9
90	Chapter IV Immediate-early gene (IEG) expression mapping of vocal communication areas in the avian brain. Handbook of Chemical Neuroanatomy, 2002, , 59-101.	0.3	7

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91	Avian genomics lends insights into endocrine function in birds. General and Comparative Endocrinology, 2018, 256, 123-129.	0.8	7
92	Natural loss of function of ephrin-B3 shapes spinal flight circuitry in birds. Science Advances, 2021, 7, .	4.7	7
93	Vocalizations and Associated Behaviors of the Sombre Hummingbird (Aphantochroa Cirrhochloris) and the Rufous-Breasted Hermit (Glaucis Hirsutus). Auk, 2006, 123, 1129-1148.	0.7	6
94	Divergent low-density lipoprotein receptor (LDLR) linked to low VSV G-dependent viral infectivity and unique serum lipid profile in zebra finches. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	6
95	Comparative mitogenomic analyses of Amazona parrots and Psittaciformes. Genetics and Molecular Biology, 2018, 41, 593-604.	0.6	5
96	Urotensin-related gene transcripts mark developmental emergence of the male forebrain vocal control system in songbirds. Scientific Reports, 2019, 9, 816.	1.6	5
97	Identification and analysis of vocal communication pathways in birds through inducible gene expression. Anais Da Academia Brasileira De Ciencias, 2004, 76, 243-246.	0.3	5
98	The assembly and annotation of the complete Rufous-bellied thrush mitochondrial genome. Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis, 2017, 28, 231-232.	0.7	4
99	Correspondence on Lovell et al.: response to BornelÃ¶v et al.. Genome Biology, 2017, 18, 113.	3.8	4
100	Curation of microarray oligonucleotides and corresponding ESTs/cDNAs used for gene expression analysis in zebra finches. BMC Research Notes, 2018, 11, 309.	0.6	4
101	Storage of auditory temporal patterns in the songbird telencephalon. Neurocomputing, 2007, 70, 2030-2034.	3.5	3
102	Discovery of Novel Genes and Other Lineage-Specific Features Through Comparative Genomics. , 2018, , 225-241.		2
103	Vocalizations and Associated Behaviors of the Sombre Hummingbird (Aphantochroa cirrhochloris) and the Rufous-Breasted Hermit (Glaucis hirsutus) (Vocalizaciones y Comportamientos Asociados de) Tj ETQq1 1 0.784314 rgBT /Ove	0.7	
104	Singing Under the Influence: Examining the Effects of Nutrition and Addiction on a Learned Vocal Behavior. Molecular Neurobiology, 2011, 44, 175-184.	1.9	1
105	Automatic recognition and statistical quantification of spatial patterns of gene expression in zebra finch brain in response to auditory stimulation. BMC Neuroscience, 2008, 9, .	0.8	0
106	No small feat: microRNA responses during vocal communication in songbirds. BMC Biology, 2011, 9, 35.	1.7	0
107	Chapter 30. Vitamin A and Brain Function. Food and Nutritional Components in Focus, 2012, , 516-531.	0.1	0
108	Seasonal changes in the song control nuclei of the Rufousâ€bellied Thrush, Turdus rufiventris (Oscine,) Tj ETQq0 0 0 rgBT /Overlock 10 T Evolution, 2019, 332, 92-98.	0.6	0

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109	Behavioral Biology of the Zebra Finch. , 2021, , 315-329.		0