

David F Clayton

List of Publications by Year in descending order

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101
papers

14,109
citations

50276

46
h-index

37204

96
g-index

109
all docs

109
docs citations

109
times ranked

10913
citing authors

#	ARTICLE	IF	CITATIONS
1	Stabilization of α -Synuclein Secondary Structure upon Binding to Synthetic Membranes. <i>Journal of Biological Chemistry</i> , 1998, 273, 9443-9449.	3.4	1,376
2	Habituation revisited: An updated and revised description of the behavioral characteristics of habituation. <i>Neurobiology of Learning and Memory</i> , 2009, 92, 135-138.	1.9	1,167
3	Towards complete and error-free genome assemblies of all vertebrate species. <i>Nature</i> , 2021, 592, 737-746.	27.8	1,139
4	Characterization of a novel protein regulated during the critical period for song learning in the zebra finch. <i>Neuron</i> , 1995, 15, 361-372.	8.1	793
5	The genome of a songbird. <i>Nature</i> , 2010, 464, 757-762.	27.8	770
6	The synucleins: a family of proteins involved in synaptic function, plasticity, neurodegeneration and disease. <i>Trends in Neurosciences</i> , 1998, 21, 249-254.	8.6	695
7	Song presentation induces gene expression in the songbird forebrain.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992, 89, 6818-6822.	7.1	588
8	Genes and Social Behavior. <i>Science</i> , 2008, 322, 896-900.	12.6	546
9	Interaction of Human α -Synuclein and Parkinson's Disease Variants with Phospholipids. <i>Journal of Biological Chemistry</i> , 2000, 275, 34393-34398.	3.4	384
10	Synucleins in synaptic plasticity and neurodegenerative disorders. <i>Journal of Neuroscience Research</i> , 1999, 58, 120-129.	2.9	381
11	Nigral and Cortical Lewy Bodies and Dystrophic Nigral Neurites in Parkinson's Disease and Cortical Lewy Body Disease Contain α -synuclein Immunoreactivity. <i>Journal of Neuropathology and Experimental Neurology</i> , 1998, 57, 334-337.	1.7	355
12	The Genomic Action Potential. <i>Neurobiology of Learning and Memory</i> , 2000, 74, 185-216.	1.9	345
13	Song-induced ZENK gene expression in auditory pathways of songbird brain and its relation to the song control system. <i>Journal of Neuroscience</i> , 1994, 14, 6652-6666.	3.6	329
14	Dosage compensation is less effective in birds than in mammals. <i>Journal of Biology</i> , 2007, 6, 2.	2.7	304
15	Repeated exposure to one song leads to a rapid and persistent decline in an immediate early gene's response to that song in zebra finch telencephalon. <i>Journal of Neuroscience</i> , 1995, 15, 6919-6925.	3.6	257
16	Exposure to Long Chain Polyunsaturated Fatty Acids Triggers Rapid Multimerization of Synucleins. <i>Journal of Biological Chemistry</i> , 2001, 276, 41958-41962.	3.4	244
17	Delayed localization of synelfin (synuclein, NACP) to presynaptic terminals in cultured rat hippocampal neurons. <i>Developmental Brain Research</i> , 1997, 99, 87-94.	1.7	206
18	Functional identification of sensory mechanisms required for developmental song learning. <i>Nature Neuroscience</i> , 2008, 11, 579-586.	14.8	197

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19	Estrogen synthesis in the male brain triggers development of the avian song control pathway in vitro. <i>Nature Neuroscience</i> , 2001, 4, 170-175.	14.8	196
20	Characterization of the Precursor Protein of the Non-A β 2 Component of Senile Plaques (NACP) in the Human Central Nervous System. <i>Journal of Neuropathology and Experimental Neurology</i> , 1996, 55, 889-895.	1.7	185
21	Response Modulation in the Zebra Finch Neostriatum: Relationship to Nuclear Gene Regulation. <i>Journal of Neuroscience</i> , 1997, 17, 3883-3893.	3.6	181
22	Affinity chromatographic purification of nucleosomes containing transcriptionally active DNA sequences. <i>Journal of Molecular Biology</i> , 1987, 196, 379-388.	4.2	171
23	Localized Changes in Immediate-Early Gene Regulation during Sensory and Motor Learning in Zebra Finches. <i>Neuron</i> , 1997, 19, 1049-1059.	8.1	150
24	The Songbird Neurogenomics (SoNG) Initiative: Community-based tools and strategies for study of brain gene function and evolution. <i>BMC Genomics</i> , 2008, 9, 131.	2.8	126
25	Development of song responses in the zebra finch caudomedial neostriatum: Role of genomic and electrophysiological activities. <i>Journal of Neurobiology</i> , 2001, 48, 163-180.	3.6	125
26	Molecular evolution of genes in avian genomes. <i>Genome Biology</i> , 2010, 11, R68.	9.6	125
27	Sex bias and dosage compensation in the zebra finch versus chicken genomes: General and specialized patterns among birds. <i>Genome Research</i> , 2010, 20, 512-518.	5.5	112
28	Dynamic Role of Postsynaptic Caspase-3 and BIRC4 in Zebra Finch Song-Response Habituation. <i>Neuron</i> , 2006, 52, 1061-1072.	8.1	108
29	Correspondence between sites of NGFI-A induction and sites of morphological plasticity following exposure to environmental complexity. <i>Molecular Brain Research</i> , 1995, 32, 211-220.	2.3	94
30	Protein-protein interactions of alpha-synuclein in brain homogenates and transfected cells. <i>Molecular Brain Research</i> , 2001, 95, 138-145.	2.3	88
31	Cellular promoters incorporated into the adenovirus genome: cell specificity of albumin and immunoglobulin expression. <i>Molecular and Cellular Biology</i> , 1986, 6, 3791-3797.	2.3	86
32	Birdsong "Transcriptomics": Neurochemical Specializations of the Oscine Song System. <i>PLoS ONE</i> , 2008, 3, e3440.	2.5	85
33	Role of gene regulation in song circuit development and song learning. <i>Journal of Neurobiology</i> , 1997, 33, 549-571.	3.6	82
34	Seasonal Differences of Gene Expression Profiles in Song Sparrow (<i>Melospiza melodia</i>) Hypothalamus in Relation to Territorial Aggression. <i>PLoS ONE</i> , 2009, 4, e8182.	2.5	79
35	Habituation in songbirds. <i>Neurobiology of Learning and Memory</i> , 2009, 92, 183-188.	1.9	76
36	Discrete molecular states in the brain accompany changing responses to a vocal signal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 11364-11369.	7.1	75

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37	Context-specific habituation of the zenk gene response to song in adult zebra finches. <i>Neurobiology of Learning and Memory</i> , 2004, 82, 99-108.	1.9	73
38	Differential induction of the ZENK gene in the avian forebrain and song control circuit after metrazole-induced depolarization. <i>Journal of Neurobiology</i> , 1995, 26, 145-161.	3.6	71
39	The canary androgen receptor mRNA is localized in the song control nuclei of the brain and is rapidly regulated by testosterone. <i>Journal of Neurobiology</i> , 1995, 26, 213-224.	3.6	67
40	Activation and Habituation of Extracellular Signal-Regulated Kinase Phosphorylation in Zebra Finch Auditory Forebrain during Song Presentation. <i>Journal of Neuroscience</i> , 2004, 24, 7503-7513.	3.6	63
41	Variation in Reproductive Success Across Captive Populations: Methodological Differences, Potential Biases and Opportunities. <i>Ethology</i> , 2017, 123, 1-29.	1.1	60
42	Sexual differentiation of the zebra finch song system: potential roles for sex chromosome genes. <i>BMC Neuroscience</i> , 2009, 10, 24.	1.9	55
43	Impact of experience-dependent and -independent factors on gene expression in songbird brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 17245-17252.	7.1	55
44	Probes for rare mRNAs reveal distributed cell subsets in canary brain. <i>Neuron</i> , 1988, 1, 249-261.	8.1	54
45	Natural selection in avian protein-coding genes expressed in brain. <i>Molecular Ecology</i> , 2008, 17, 3008-3017.	3.9	51
46	Integrating Genomes, Brain and Behavior in the Study of Songbirds. <i>Current Biology</i> , 2009, 19, R865-R873.	3.9	51
47	Immediate-early gene responses in the avian song control system: cloning and expression analysis of the canary c-jun cDNA. <i>Molecular Brain Research</i> , 1994, 27, 299-309.	2.3	48
48	Developmental shifts in gene expression in the auditory forebrain during the sensitive period for song learning. <i>Developmental Neurobiology</i> , 2009, 69, 437-450.	3.0	48
49	Song exposure regulates known and novel microRNAs in the zebra finch auditory forebrain. <i>BMC Genomics</i> , 2011, 12, 277.	2.8	45
50	The zebra finch neuropeptidome: prediction, detection and expression. <i>BMC Biology</i> , 2010, 8, 28.	3.8	44
51	The role of the genome in experience-dependent plasticity: Extending the analogy of the genomic action potential. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 23252-23260.	7.1	44
52	Seasonal Changes in Patterns of Gene Expression in Avian Song Control Brain Regions. <i>PLoS ONE</i> , 2012, 7, e35119.	2.5	43
53	Rapidly learned song-discrimination without behavioral reinforcement in adult male zebra finches (<i>Taeniopygia guttata</i>). <i>Neurobiology of Learning and Memory</i> , 2003, 79, 41-50.	1.9	42
54	A cDNA microarray from the telencephalon of juvenile male and female zebra finches. <i>Journal of Neuroscience Methods</i> , 2004, 138, 199-206.	2.5	42

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55	Partial dissociation of molecular and behavioral measures of song habituation in adult zebra finches. <i>Genes, Brain and Behavior</i> , 2008, 7, 802-809.	2.2	42
56	Minimal Experience Required for Immediate-Early Gene Induction in Zebra Finch Neostriatum. <i>Neurobiology of Learning and Memory</i> , 2000, 74, 179-184.	1.9	41
57	The Genomics of Memory and Learning in Songbirds. <i>Annual Review of Genomics and Human Genetics</i> , 2013, 14, 45-65.	6.2	40
58	Songbird Genomics: Methods, Mechanisms, Opportunities, and Pitfalls. <i>Annals of the New York Academy of Sciences</i> , 2004, 1016, 45-60.	3.8	38
59	In situ hybridization using PEG-embedded tissue and riboprobes: increased cellular detail coupled with high sensitivity.. <i>Journal of Histochemistry and Cytochemistry</i> , 1989, 37, 389-393.	2.5	35
60	Synelfin Regulation during the Critical Period for Song Learning in Normal and Isolated Juvenile Zebra Finches. <i>Neurobiology of Learning and Memory</i> , 1997, 68, 271-284.	1.9	32
61	Influence of restraint and acute isolation on the selectivity of the adult zebra finch zenk gene response to acoustic stimuli. <i>Behavioural Brain Research</i> , 2002, 136, 185-191.	2.2	31
62	Lipid imaging in the zebra finch brain with secondary ion mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2007, 260, 121-127.	1.5	31
63	Brain transcriptome sequencing and assembly of three songbird model systems for the study of social behavior. <i>PeerJ</i> , 2014, 2, e396.	2.0	31
64	New Frontiers for Organismal Biology. <i>BioScience</i> , 2013, 63, 464-471.	4.9	30
65	Differential regulation in the avian song control circuit of an mRNA predicting a highly conserved protein related to protein kinase C and the bcr oncogene. <i>Molecular Brain Research</i> , 1992, 12, 323-329.	2.3	29
66	Reptiles and Mammals Have Differentially Retained Long Conserved Noncoding Sequences from the Amniote Ancestor. <i>Genome Biology and Evolution</i> , 2011, 3, 102-113.	2.5	28
67	Genomic and neural analysis of the estradiol-synthetic pathway in the zebra finch. <i>BMC Neuroscience</i> , 2010, 11, 46.	1.9	27
68	High throughput analysis reveals dissociable gene expression profiles in two independent neural systems involved in the regulation of social behavior. <i>BMC Neuroscience</i> , 2012, 13, 126.	1.9	25
69	Acute social isolation alters neurogenomic state in songbird forebrain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 23311-23316.	7.1	25
70	Small molecule analysis and imaging of fatty acids in the zebra finch song system using time-of-flight secondary ion mass spectrometry. <i>Journal of Neurochemistry</i> , 2011, 118, 499-511.	3.9	24
71	RNA-seq transcriptome analysis of male and female zebra finch cell lines. <i>Genomics</i> , 2012, 100, 363-369.	2.9	23
72	Seasonal and tissue-specific regulation of canary androgen receptor messenger ribonucleic acid. <i>Endocrinology</i> , 1994, 134, 640-649.	2.8	22

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73	Testosterone regulates \hat{I} -synuclein mRNA in the avian song system. <i>NeuroReport</i> , 2001, 12, 943-946.	1.2	21
74	Acoustic event detection for multiple overlapping similar sources. , 2015, , .		21
75	TECHNICAL ADVANCES: A microarray for large-scale genomic and transcriptional analyses of the zebra finch (<i>Taeniopygia guttata</i>) and other passerines. <i>Molecular Ecology Resources</i> , 2008, 8, 275-281.	4.8	19
76	The Zebra Finch genome and avian genomics in the wild. <i>Emu</i> , 2010, 110, 233-241.	0.6	18
77	Detailed temporal structure of communication networks in groups of songbirds. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20160296.	3.4	18
78	Expression of fragile X mental retardation protein within the vocal control system of developing and adult male zebra finches. <i>Neuroscience</i> , 2008, 157, 132-142.	2.3	16
79	Brain transcriptome of the violet-eared waxbill (<i>Uraeginthus granatina</i>) and recent evolution in the songbird genome. <i>Open Biology</i> , 2013, 3, 130063.	3.6	16
80	The opportunities and challenges of large-scale molecular approaches to songbird neurobiology. <i>Neuroscience and Biobehavioral Reviews</i> , 2015, 50, 70-76.	6.1	16
81	Acoustic developmental programming: a mechanistic and evolutionary framework. <i>Trends in Ecology and Evolution</i> , 2021, 36, 722-736.	8.7	15
82	Functional genomic analysis and neuroanatomical localization of miR-2954, a song-responsive sex-linked microRNA in the zebra finch. <i>Frontiers in Neuroscience</i> , 2014, 8, 409.	2.8	14
83	Conservation and expression of IQ-domain-containing calpacitin gene products (neuromodulin/GAP43). <i>Trends in Neurobiology</i> , 2009, 69, 124-140.	3.0	13
84	Structure and expression of canary myc family genes.. <i>Molecular and Cellular Biology</i> , 1991, 11, 1770-1776.	2.3	11
85	Proteomic Analyses of Zebra Finch Optic Tectum and Comparative Histochemistry. <i>Journal of Proteome Research</i> , 2007, 6, 2341-2350.	3.7	11
86	The neurobiology of Zebra Finch song: insights from gene expression studies. <i>Emu</i> , 2010, 110, 219-232.	0.6	11
87	Proteomic Analyses of Songbird (Zebra finch; <i>Taeniopygia guttata</i>) Retina. <i>Journal of Proteome Research</i> , 2007, 6, 1093-1100.	3.7	10
88	Forebrain-enriched RNAs of the canary: a population analysis using hybridization kinetics. <i>Molecular Brain Research</i> , 1990, 7, 23-30.	2.3	9
89	Transcriptome-guided genome assembly of the European starling. <i>Molecular Ecology Resources</i> , 2022, 22, 3141-3160.	4.8	9
90	The neural basis of avian song learning and perception. , 2000, , 113-126.		8

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91	Advancing avian behavioral neuroendocrinology through genomics. <i>Frontiers in Neuroendocrinology</i> , 2014, 35, 58-71.	5.2	7
92	The variability of song variability in zebra finch (<i>Taeniopygia guttata</i>) populations. <i>Royal Society Open Science</i> , 2019, 6, 190273.	2.4	7
93	Synucleins in synaptic plasticity and neurodegenerative disorders. <i>Journal of Neuroscience Research</i> , 1999, 58, 120-129.	2.9	6
94	Urotensin-related gene transcripts mark developmental emergence of the male forebrain vocal control system in songbirds. <i>Scientific Reports</i> , 2019, 9, 816.	3.3	5
95	Learning birdsong by imitation. <i>Science</i> , 2019, 366, 33-34.	12.6	4
96	Serotonin Expression in the Song Circuitry of Adult Male Zebra Finches. <i>Neuroscience</i> , 2020, 444, 170-182.	2.3	4
97	<i>Molecular Neurobiology of Bird Song.</i> , 2007, , 373-417.		2
98	The Non-Amyloid- β Component of Alzheimer's Disease Plaque Amyloid: Comparative Analysis Suggests a Normal Function as a Synaptic Plasticizer. , 1996, , 109-112.		2
99	Noninvasive diffusive optical imaging of the auditory response to birdsong in the zebra finch. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2013, 199, 227-238.	1.6	1
100	Role of gene regulation in song circuit development and song learning. <i>Journal of Neurobiology</i> , 1997, 33, 549-571.	3.6	1
101	β -SYNUCLEIN IMMUNOREACTIVITY IN LEWY BODIES AND ABNORMAL NEURITES IN PARKINSON'S DISEASE AND DEMENTIA WITH LEWY BODY BRAIN. <i>Journal of Neuropathology and Experimental Neurology</i> , 1998, 57, 509.	1.7	0