# 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 | Transcriptâ€•and annotationâ€guided genome assembly of the European starling. Molecular Ecology Resources, 2022, 22, 3141-3160. | 4.8 | 9 |
| 2 | Towards complete and error-free genome assemblies of all vertebrate species. Nature, 2021, 592, 737-746. | 27.8 | 1,139 |
| 3 | Acoustic developmental programming: a mechanistic and evolutionary framework. Trends in Ecology and Evolution, 2021, 36, 722-736. | 8.7 | 15 |
| 4 | The role of the genome in experience-dependent plasticity: Extending the analogy of the genomic action potential. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23252-23260. | 7.1 | 44 |
| 5 | Acute social isolation alters neurogenomic state in songbird forebrain. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23311-23316. | 7.1 | 25 |
| 6 | Serotonin Expression in the Song Circuitry of Adult Male Zebra Finches. Neuroscience, 2020, 444, 170-182. | 2.3 | 4 |
| 7 | Learning birdsong by imitation. Science, 2019, 366, 33-34. | 12.6 | 4 |
| 8 | Urotensin-related gene transcripts mark developmental emergence of the male forebrain vocal control system in songbirds. Scientific Reports, 2019, 9, 816. | 3.3 | 5 |
| 9 | The variability of song variability in zebra finch ( Taeniopygia guttata ) populations. Royal Society Open Science, 2019, 6, 190273. | 2.4 | 7 |
| 10 | Variation in Reproductive Success Across Captive Populations: Methodological Differences, Potential Biases and Opportunities. Ethology, 2017, 123, 1-29. | 1.1 | 60 |
| 11 | Detailed temporal structure of communication networks in groups of songbirds. Journal of the Royal Society Interface, 2016, 13, 20160296. | 3.4 | 18 |
| 12 | Acoustic event detection for multiple overlapping similar sources. , 2015, , . | | 21 |
| 13 | The opportunities and challenges of large-scale molecular approaches to songbird neurobiology. Neuroscience and Biobehavioral Reviews, 2015, 50, 70-76. | 6.1 | 16 |
| 14 | Functional genomic analysis and neuroanatomical localization of miR-2954, a song-responsive sex-linked microRNA in the zebra finch. Frontiers in Neuroscience, 2014, 8, 409. | 2.8 | 14 |
| 15 | Advancing avian behavioral neuroendocrinology through genomics. Frontiers in Neuroendocrinology, 2014, 35, 58-71. | 5.2 | 7 |
| 16 | Brain transcriptome sequencing and assembly of three songbird model systems for the study of social behavior. PeerJ, 2014, 2, e396. | 2.0 | 31 |
| 17 | New Frontiers for Organismal Biology. BioScience, 2013, 63, 464-471. | 4.9 | 30 |
| 18 | Noninvasive diffusive optical imaging of the auditory response to birdsong in the zebra finch. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2013, 199, 227-238. | 1.6 | 1 |

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|---|---|---|---|
| 19 | The Genomics of Memory and Learning in Songbirds. Annual Review of Genomics and Human Genetics, 2013, 14, 45-65. | 6.2 | 40 |
| 20 | Brain transcriptome of the violet-eared waxbill Uraeginthus granatina and recent evolution in the songbird genome. Open Biology, 2013, 3, 130063. | 3.6 | 16 |
| 21 | 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 |
| 22 | RNA-seq transcriptome analysis of male and female zebra finch cell lines. Genomics, 2012, 100, 363-369. | 2.9 | 23 |
| 23 | High throughput analysis reveals dissociable gene expression profiles in two independent neural systems involved in the regulation of social behavior. BMC Neuroscience, 2012, 13, 126. | 1.9 | 25 |
| 24 | Seasonal Changes in Patterns of Gene Expression in Avian Song Control Brain Regions. PLoS ONE, 2012, 7, e35119. | 2.5 | 43 |
| 25 | Reptiles and Mammals Have Differentially Retained Long Conserved Noncoding Sequences from the Amniote Ancestor. Genome Biology and Evolution, 2011, 3, 102-113. | 2.5 | 28 |
| 26 | Small molecule analysis and imaging of fatty acids in the zebra finch song system using timeâ€ofâ€flightâ€secondary ion mass spectrometry. Journal of Neurochemistry, 2011, 118, 499-511. | 3.9 | 24 |
| 27 | Song exposure regulates known and novel microRNAs in the zebra finch auditory forebrain. BMC Genomics, 2011, 12, 277. | 2.8 | 45 |
| 28 | The Zebra Finch genome and avian genomics in the wild. Emu, 2010, 110, 233-241. | 0.6 | 18 |
| 29 | Genomic and neural analysis of the estradiol-synthetic pathway in the zebra finch. BMC Neuroscience, 2010, 11, 46. | 1.9 | 27 |
| 30 | The zebra finch neuropeptidome: prediction, detection and expression. BMC Biology, 2010, 8, 28. | 3.8 | 44 |
| 31 | The genome of a songbird. Nature, 2010, 464, 757-762. | 27.8 | 770 |
| 32 | 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 |
| 33 | The neurobiology of Zebra Finch song: insights from gene expression studies. Emu, 2010, 110, 219-232. | 0.6 | 11 |
| 34 | Molecular evolution of genes in avian genomes. Genome Biology, 2010, 11, R68. | 9.6 | 125 |
| 35 | Seasonal Differences of Gene Expression Profiles in Song Sparrow (Melospiza melodia) Hypothalamus in Relation to Territorial Aggression. PLoS ONE, 2009, 4, e8182. | 2.5 | 79 |
| 36 | Discrete molecular states in the brain accompany changing responses to a vocal signal. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 11364-11369. | 7.1 | 75 |

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|---|---|---|---|
| 37 | Sexual differentiation of the zebra finch song system: potential roles for sex chromosome genes. BMC Neuroscience, 2009, 10, 24. | 1.9 | 55 |
| 38 | Integrating Genomes, Brain and Behavior in the Study of Songbirds. Current Biology, 2009, 19, R865-R873. | 3.9 | 51 |
| 39 | Conservation and expression of IQâ€domainâ€containing calpacitin gene products (neuromodulin/GAPâ€43,) Tj ETQq1 1 0.784314 r Neurobiology, 2009, 69, 124-140. | 3.0 | 13 |
| 40 | Developmental shifts in gene expression in the auditory forebrain during the sensitive period for song learning. Developmental Neurobiology, 2009, 69, 437-450. | 3.0 | 48 |
| 41 | Habituation in songbirds. Neurobiology of Learning and Memory, 2009, 92, 183-188. | 1.9 | 76 |
| 42 | Habituation revisited: An updated and revised description of the behavioral characteristics of habituation. Neurobiology of Learning and Memory, 2009, 92, 135-138. | 1.9 | 1,167 |
| 43 | Partial dissociation of molecular and behavioral measures of song habituation in adult zebra finches. Genes, Brain and Behavior, 2008, 7, 802-809. | 2.2 | 42 |
| 44 | Functional identification of sensory mechanisms required for developmental song learning. Nature Neuroscience, 2008, 11, 579-586. | 14.8 | 197 |
| 45 | TECHNICAL ADVANCES: A microarray for largeâ€scale genomic and transcriptional analyses of the zebra finch (Taeniopygia guttata) and other passerines. Molecular Ecology Resources, 2008, 8, 275-281. | 4.8 | 19 |
| 46 | Natural selection in avian protein-coding genes expressed in brain. Molecular Ecology, 2008, 17, 3008-3017. | 3.9 | 51 |
| 47 | 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 |
| 48 | Genes and Social Behavior. Science, 2008, 322, 896-900. | 12.6 | 546 |
| 49 | Expression of fragile X mental retardation protein within the vocal control system of developing and adult male zebra finches. Neuroscience, 2008, 157, 132-142. | 2.3 | 16 |
| 50 | Birdsong â€œTranscriptomicsâ€• Neurochemical Specializations of the Oscine Song System. PLoS ONE, 2008, 3, e3440. | 2.5 | 85 |
| 51 | Proteomic Analyses of Songbird (Zebra finch; Taeniopygia guttata) Retina. Journal of Proteome Research, 2007, 6, 1093-1100. | 3.7 | 10 |
| 52 | Proteomic Analyses of Zebra Finch Optic Tectum and Comparative Histochemistry. Journal of Proteome Research, 2007, 6, 2341-2350. | 3.7 | 11 |
| 53 | Lipid imaging in the zebra finch brain with secondary ion mass spectrometry. International Journal of Mass Spectrometry, 2007, 260, 121-127. | 1.5 | 31 |
| 54 | Dosage compensation is less effective in birds than in mammals. Journal of Biology, 2007, 6, 2. | 2.7 | 304 |

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| 55 | Molecular Neurobiology of Bird Song. , 2007, , 373-417. | | 2 |
| 56 | Dynamic Role of Postsynaptic Caspase-3 and BIRC4 in Zebra Finch Song-Response Habituation. Neuron, 2006, 52, 1061-1072. | 8.1 | 108 |
| 57 | Activation and Habituation of Extracellular Signal-Regulated Kinase Phosphorylation in Zebra Finch Auditory Forebrain during Song Presentation. Journal of Neuroscience, 2004, 24, 7503-7513. | 3.6 | 63 |
| 58 | Songbird Genomics: Methods, Mechanisms, Opportunities, and Pitfalls. Annals of the New York Academy of Sciences, 2004, 1016, 45-60. | 3.8 | 38 |
| 59 | A cDNA microarray from the telencephalon of juvenile male and female zebra finches. Journal of Neuroscience Methods, 2004, 138, 199-206. | 2.5 | 42 |
| 60 | Context-specific habituation of the zenk gene response to song in adult zebra finches. Neurobiology of Learning and Memory, 2004, 82, 99-108. | 1.9 | 73 |
| 61 | Rapidly learned song-discrimination without behavioral reinforcement in adult male zebra finches (Taeniopygia guttata). Neurobiology of Learning and Memory, 2003, 79, 41-50. | 1.9 | 42 |
| 62 | Influence of restraint and acute isolation on the selectivity of the adult zebra finch zenk gene response to acoustic stimuli. Behavioural Brain Research, 2002, 136, 185-191. | 2.2 | 31 |
| 63 | Proteinâ€“protein interactions of alpha-synuclein in brain homogenates and transfected cells. Molecular Brain Research, 2001, 95, 138-145. | 2.3 | 88 |
| 64 | Testosterone regulates Î±-synuclein mRNA in the avian song system. NeuroReport, 2001, 12, 943-946. | 1.2 | 21 |
| 65 | Development of song responses in the zebra finch caudomedial neostriatum: Role of genomic and electrophysiological activities. Journal of Neurobiology, 2001, 48, 163-180. | 3.6 | 125 |
| 66 | Estrogen synthesis in the male brain triggers development of the avian song control pathway in vitro. Nature Neuroscience, 2001, 4, 170-175. | 14.8 | 196 |
| 67 | Exposure to Long Chain Polyunsaturated Fatty Acids Triggers Rapid Multimerization of Synucleins. Journal of Biological Chemistry, 2001, 276, 41958-41962. | 3.4 | 244 |
| 68 | Interaction of Human Î±-Synuclein and Parkinson's Disease Variants with Phospholipids. Journal of Biological Chemistry, 2000, 275, 34393-34398. | 3.4 | 384 |
| 69 | The Genomic Action Potential. Neurobiology of Learning and Memory, 2000, 74, 185-216. | 1.9 | 345 |
| 70 | Minimal Experience Required for Immediate-Early Gene Induction in Zebra Finch Neostriatum. Neurobiology of Learning and Memory, 2000, 74, 179-184. | 1.9 | 41 |
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| 72 | Synucleins in synaptic plasticity and neurodegenerative disorders. Journal of Neuroscience Research, 1999, 58, 120-129. | 2.9 | 381 |

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| 73 | Synucleins in synaptic plasticity and neurodegenerative disorders. Journal of Neuroscience Research, 1999, 58, 120-129. | 2.9 | 6 |
| 74 | The synucleins: a family of proteins involved in synaptic function, plasticity, neurodegeneration and disease. Trends in Neurosciences, 1998, 21, 249-254. | 8.6 | 695 |
| 75 | Stabilization of Î±-Synuclein Secondary Structure upon Binding to Synthetic Membranes. Journal of Biological Chemistry, 1998, 273, 9443-9449. | 3.4 | 1,376 |
| 76 | Î±-SYNUCLEIN IMMUNOREACTIVITY IN LEWY BODIES AND ABNORMAL NEURITES IN PARKINSONÊ¼S DISEASE AND DEMENTIA WITH LEWY BODY BRAIN. Journal of Neuropathology and Experimental Neurology, 1998, 57, 509. | 1.7 | 0 |
| 77 | Nigral and Cortical Lewy Bodies and Dystrophic Nigral Neurites in ParkinsonÊ¼s Disease and Cortical Lewy Body Disease Contain Î±-synuclein Immunoreactivity. Journal of Neuropathology and Experimental Neurology, 1998, 57, 334-337. | 1.7 | 355 |
| 78 | Synelfin Regulation during the Critical Period for Song Learning in Normal and Isolated Juvenile Zebra Finches. Neurobiology of Learning and Memory, 1997, 68, 271-284. | 1.9 | 32 |
| 79 | Localized Changes in Immediate-Early Gene Regulation during Sensory and Motor Learning in Zebra Finches. Neuron, 1997, 19, 1049-1059. | 8.1 | 150 |
| 80 | Response Modulation in the Zebra Finch Neostriatum: Relationship to Nuclear Gene Regulation. Journal of Neuroscience, 1997, 17, 3883-3893. | 3.6 | 181 |
| 81 | Delayed localization of synelfin (synuclein, NACP) to presynaptic terminals in cultured rat hippocampal neurons. Developmental Brain Research, 1997, 99, 87-94. | 1.7 | 206 |
| 82 | Role of gene regulation in song circuit development and song learning. Journal of Neurobiology, 1997, 33, 549-571. | 3.6 | 82 |
| 83 | Role of gene regulation in song circuit development and song learning. Journal of Neurobiology, 1997, 33, 549-571. | 3.6 | 1 |
| 84 | Characterization of the Precursor Protein of the Non-AÎ² Component of Senile Plaques (NACP) in the Human Central Nervous System. Journal of Neuropathology and Experimental Neurology, 1996, 55, 889-895. | 1.7 | 185 |
| 85 | The Non-Amyloid-Î² Component of Alzheimerâ€™s Disease Plaque Amyloid: Comparative Analysis Suggests a Normal Function as a Synaptic Plasticizer. , 1996, , 109-112. | | 2 |
| 86 | Differential induction of theZENK gene in the avian forebrain and song control circuit after metrazole-induced depolarization. Journal of Neurobiology, 1995, 26, 145-161. | 3.6 | 71 |
| 87 | The canary androgen receptor mRNA is localized in the song control nuclei of the brain and is rapidly regulated by testosterone. Journal of Neurobiology, 1995, 26, 213-224. | 3.6 | 67 |
| 88 | 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. Journal of Neuroscience, 1995, 15, 6919-6925. | 3.6 | 257 |
| 89 | Characterization of a novel protein regulated during the critical period for song learning in the zebra finch. Neuron, 1995, 15, 361-372. | 8.1 | 793 |
| 90 | Correspondence between sites of NGFI-A induction and sites of morphological plasticity following exposure to environmental complexity. Molecular Brain Research, 1995, 32, 211-220. | 2.3 | 94 |

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| 91 | Song-induced ZENK gene expression in auditory pathways of songbird brain and its relation to the song control system. Journal of Neuroscience, 1994, 14, 6652-6666. | 3.6 | 329 |
| 92 | 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. | 2.3 | 48 |
| 93 | Seasonal and tissue-specific regulation of canary androgen receptor messenger ribonucleic acid. Endocrinology, 1994, 134, 640-649. | 2.8 | 22 |
| 94 | Song presentation induces gene expression in the songbird forebrain.. Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 6818-6822. | 7.1 | 588 |
| 95 | 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. Molecular Brain Research, 1992, 12, 323-329. | 2.3 | 29 |
| 96 | Structure and expression of canary myc family genes.. Molecular and Cellular Biology, 1991, 11, 1770-1776. | 2.3 | 11 |
| 97 | Forebrain-enriched RNAs of the canary: a population analysis using hybridization kinetics. Molecular Brain Research, 1990, 7, 23-30. | 2.3 | 9 |
| 98 | In situ hybridization using PEG-embedded tissue and riboprobes: increased cellular detail coupled with high sensitivity.. Journal of Histochemistry and Cytochemistry, 1989, 37, 389-393. | 2.5 | 35 |
| 99 | Probes for rare mRNAs reveal distributed cell subsets in canary brain. Neuron, 1988, 1, 249-261. | 8.1 | 54 |
| 100 | Affinity chromatographic purification of nucleosomes containing transcriptionally active DNA sequences. Journal of Molecular Biology, 1987, 196, 379-388. | 4.2 | 171 |
| 101 | Cellular promoters incorporated into the adenovirus genome: cell specificity of albumin and immunoglobulin expression.. Molecular and Cellular Biology, 1986, 6, 3791-3797. | 2.3 | 86 |