

David Ellard Keith Ferrier

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8735387/publications.pdf>

Version: 2024-02-01

91
papers

8,545
citations

109264

35
h-index

56687

83
g-index

94
all docs

94
docs citations

94
times ranked

9005
citing authors

#	ARTICLE	IF	CITATIONS
1	The amphioxus genome and the evolution of the chordate karyotype. <i>Nature</i> , 2008, 453, 1064-1071.	13.7	1,496
2	The genome of the model beetle and pest <i>Tribolium castaneum</i> . <i>Nature</i> , 2008, 452, 949-955.	13.7	1,255
3	Genome Sequence of the Pea Aphid <i>Acyrtosiphon pisum</i> . <i>PLoS Biology</i> , 2010, 8, e1000313.	2.6	913
4	Light-sheet microscopy using an Airy beam. <i>Nature Methods</i> , 2014, 11, 541-544.	9.0	679
5	The amphioxus genome illuminates vertebrate origins and cephalochordate biology. <i>Genome Research</i> , 2008, 18, 1100-1111.	2.4	456
6	Molecular Architecture of Annelid Nerve Cord Supports Common Origin of Nervous System Centralization in Bilateria. <i>Cell</i> , 2007, 129, 277-288.	13.5	406
7	Genes for de novo biosynthesis of omega-3 polyunsaturated fatty acids are widespread in animals. <i>Science Advances</i> , 2018, 4, eaar6849.	4.7	252
8	Vertebrate-Type Intron-Rich Genes in the Marine Annelid <i>Platynereis dumerilii</i> . <i>Science</i> , 2005, 310, 1325-1326.	6.0	244
9	Ancient origin of the Hox gene cluster. <i>Nature Reviews Genetics</i> , 2001, 2, 33-38.	7.7	233
10	Amphioxus functional genomics and the origins of vertebrate gene regulation. <i>Nature</i> , 2018, 564, 64-70.	13.7	224
11	The First Myriapod Genome Sequence Reveals Conservative Arthropod Gene Content and Genome Organisation in the Centipede <i>Strigamia maritima</i> . <i>PLoS Biology</i> , 2014, 12, e1002005.	2.6	221
12	The amphioxus Hox cluster: deuterostome posterior flexibility and Hox14. <i>Evolution & Development</i> , 2000, 2, 284-293.	1.1	156
13	Calcisponges have a ParaHox gene and dynamic expression of dispersed NK homeobox genes. <i>Nature</i> , 2014, 514, 620-623.	13.7	94
14	<i>Ciona intestinalis</i> ParaHox genes: evolution of Hox/ParaHox cluster integrity, developmental mode, and temporal colinearity. <i>Molecular Phylogenetics and Evolution</i> , 2002, 24, 412-417.	1.2	92
15	The development of the larval nervous system, musculature and ciliary bands of <i>Pomatoceros lamarckii</i> (Annelida): heterochrony in polychaetes. <i>Frontiers in Zoology</i> , 2006, 3, 16.	0.9	81
16	Hox genes are not always Colinear. <i>International Journal of Biological Sciences</i> , 2006, 2, 95-103.	2.6	79
17	A compact Airy beam light sheet microscope with a tilted cylindrical lens. <i>Biomedical Optics Express</i> , 2014, 5, 3434.	1.5	78
18	Evolution of the Hox/ParaHox gene clusters. <i>International Journal of Developmental Biology</i> , 2003, 47, 605-11.	0.3	78

#	ARTICLE	IF	CITATIONS
19	Light-sheet microscopy with attenuation-compensated propagation-invariant beams. <i>Science Advances</i> , 2018, 4, eaar4817.	4.7	76
20	Comprehensive survey and classification of homeobox genes in the genome of amphioxus, <i>Branchiostoma floridae</i> . <i>Development Genes and Evolution</i> , 2008, 218, 579-590.	0.4	69
21	Features of the ancestral bilaterian inferred from <i>Platynereis dumerilii</i> ParaHox genes. <i>BMC Biology</i> , 2009, 7, 43.	1.7	58
22	Amphioxus Evx Genes: Implications for the Evolution of the Midbrain–Hindbrain Boundary and the Chordate Tailbud. <i>Developmental Biology</i> , 2001, 237, 270-281.	0.9	55
23	The Mnx homeobox gene class defined by HB9 , MNR2 and amphioxus AmphiMnx. <i>Development Genes and Evolution</i> , 2001, 211, 103-107.	0.4	54
24	Extensive Chordate and Annelid Macrosynteny Reveals Ancestral Homeobox Gene Organization. <i>Molecular Biology and Evolution</i> , 2012, 29, 157-165.	3.5	53
25	The amphioxus <i>Hox</i> cluster: characterization, comparative genomics, and evolution. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2008, 310B, 465-477.	0.6	50
26	Ghost Loci Imply Hox and ParaHox Existence in the Last Common Ancestor of Animals. <i>Current Biology</i> , 2012, 22, 1951-1956.	1.8	48
27	Organization of the Hox gene cluster in the grasshopper, <i>Schistocerca gregaria</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 13024-13029.	3.3	47
28	Sipunculan ParaHox genes. <i>Evolution & Development</i> , 2001, 3, 263-270.	1.1	47
29	Evolution of signal multiplexing by 14-3-3-binding 2R-ohnologue protein families in the vertebrates. <i>Open Biology</i> , 2012, 2, 120103.	1.5	47
30	Multimode fibre: Light-sheet microscopy at the tip of a needle. <i>Scientific Reports</i> , 2015, 5, 18050.	1.6	46
31	Diversification of arthropod Hox genes as a paradigm for the evolution of gene functions. <i>Seminars in Cell and Developmental Biology</i> , 1996, 7, 539-551.	2.3	45
32	The chordate ParaHox cluster. <i>Current Biology</i> , 2005, 15, R820-R822.	1.8	45
33	The Urbilaterian Super-Hox cluster. <i>Trends in Genetics</i> , 2008, 24, 259-262.	2.9	43
34	An EST screen from the annelid <i>Pomatoceros lamarckii</i> reveals patterns of gene loss and gain in animals. <i>BMC Evolutionary Biology</i> , 2009, 9, 240.	3.2	40
35	Evolution of Homeobox Gene Clusters in Animals: The Giga-Cluster and Primary vs. Secondary Clustering. <i>Frontiers in Ecology and Evolution</i> , 2016, 4, .	1.1	40
36	Gene duplications in the prototypical cephalochordate amphioxus. <i>Gene</i> , 2002, 287, 121-128.	1.0	38

#	ARTICLE	IF	CITATIONS
37	The Nereid on the rise: Platynereis as a model system. <i>EvoDevo</i> , 2021, 12, 10.	1.3	34
38	Do cnidarians have a ParaHox cluster? Analysis of synteny around a <i>Nematostella</i> homeobox gene cluster. <i>Evolution & Development</i> , 2008, 10, 725-730.	1.1	33
39	Differential regulation of ParaHox genes by retinoic acid in the invertebrate chordate amphioxus (<i>Branchiostoma floridae</i>). <i>Developmental Biology</i> , 2009, 327, 252-262.	0.9	33
40	Integrated holographic system for all-optical manipulation of developing embryos. <i>Biomedical Optics Express</i> , 2011, 2, 1564.	1.5	29
41	Mechanisms of Gene Duplication and Translocation and Progress towards Understanding Their Relative Contributions to Animal Genome Evolution. <i>International Journal of Evolutionary Biology</i> , 2012, 2012, 1-10.	1.0	29
42	Evolutionary crossroads in developmental biology: annelids. <i>Development (Cambridge)</i> , 2012, 139, 2643-2653.	1.2	25
43	Reconstruction of ancient homeobox gene linkages inferred from a new high-quality assembly of the Hong Kong oyster (<i>Magallana hongkongensis</i>) genome. <i>BMC Genomics</i> , 2020, 21, 713.	1.2	24
44	The origin of the Hox/ParaHox genes, the Ghost Locus hypothesis and the complexity of the first animal. <i>Briefings in Functional Genomics</i> , 2016, 15, 333-341.	1.3	22
45	4273€: Bioinformatics education on low cost ARM hardware. <i>BMC Bioinformatics</i> , 2013, 14, 243.	1.2	19
46	Macro-optical trapping for sample confinement in light sheet microscopy. <i>Biomedical Optics Express</i> , 2015, 6, 2778.	1.5	19
47	Recent advances in understanding the roles of whole genome duplications in evolution. <i>F1000Research</i> , 2017, 6, 1623.	0.8	19
48	Recent advances in understanding the roles of whole genome duplications in evolution. <i>F1000Research</i> , 2018, 6, 1623.	0.8	18
49	Impacts of jellyfish on marine cage aquaculture: an overview of existing knowledge and the challenges to finfish health. <i>ICES Journal of Marine Science</i> , 2021, 78, 1557-1573.	1.2	17
50	Annelid Distal-less/Dlx duplications reveal varied post-duplication fates. <i>BMC Evolutionary Biology</i> , 2011, 11, 241.	3.2	16
51	Identification and Characterisation of five novel Miniature Inverted-repeat Transposable Elements (MITEs) in amphioxus (<i>Branchiostoma floridae</i>). <i>International Journal of Biological Sciences</i> , 2006, 2, 54-60.	2.6	16
52	Hox Genes: Did the Vertebrate Ancestor Have a Hox14?. <i>Current Biology</i> , 2004, 14, R210-R211.	1.8	15
53	Time is of the essence for ParaHox homeobox gene clustering. <i>BMC Biology</i> , 2013, 11, 72.	1.7	15
54	More Than One-to-Four via 2R: Evidence of an Independent Amphioxus Expansion and Two-Gene Ancestral Vertebrate State for MyoD-Related Myogenic Regulatory Factors (MRFs). <i>Molecular Biology and Evolution</i> , 2020, 37, 2966-2982.	3.5	15

#	ARTICLE	IF	CITATIONS
55	Sampling the fish gill microbiome: a comparison of tissue biopsies and swabs. BMC Microbiology, 2021, 21, 313.	1.3	15
56	Evolution of Hox Complexes. Advances in Experimental Medicine and Biology, 2010, 689, 91-100.	0.8	13
57	Another biomineralising protostome with an <i>msp130</i> gene and conservation of <i>msp130</i> gene structure across Bilateria. Evolution & Development, 2015, 17, 195-197.	1.1	12
58	Two more Posterior Hox genes and Hox cluster dispersal in echinoderms. BMC Evolutionary Biology, 2018, 18, 203.	3.2	12
59	Duplication of the ribosomal gene cluster in the marine polychaete <i>Platynereis dumerilii</i> correlates with ITS polymorphism. Journal of the Marine Biological Association of the United Kingdom, 2007, 87, 443-449.	0.4	11
60	Ancient homeobox gene loss and the evolution of chordate brain and pharynx development: deductions from amphioxus gene expression. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 3381-3389.	1.2	11
61	Genome of the ramshorn snail <i>Biomphalaria straminea</i> -an obligate intermediate host of schistosomiasis.. GigaScience, 2022, 11, .	3.3	11
62	Tunicates push the limits of animal evo-devo. BMC Biology, 2011, 9, 3.	1.7	9
63	Cell proliferation dynamics in regeneration of the operculum head appendage in the annelid <i>Pomatoceros lamarckii</i> . Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2014, 322, 257-268.	0.6	9
64	TCF/Lef regulates the Gsx ParaHox gene in central nervous system development in chordates. BMC Evolutionary Biology, 2016, 16, 57.	3.2	9
65	A Revised Spiralian Homeobox Gene Classification Incorporating New Polychaete Transcriptomes Reveals a Diverse TALE Class and a Divergent Hox Gene. Genome Biology and Evolution, 2018, 10, 2151-2167.	1.1	9
66	Molecular identification of potential aquaculture pathogens adherent to cnidarian zooplankton. Aquaculture, 2020, 518, 734801.	1.7	9
67	Evolution of Hox Gene Clusters. , 2007, , 53-67.		8
68	Chordate Hox and ParaHox Gene Clusters Differ Dramatically in Their Repetitive Element Content. Molecular Biology and Evolution, 2010, 27, 217-220.	3.5	8
69	Improved Understanding of the Role of Gene and Genome Duplications in Chordate Evolution With New Genome and Transcriptome Sequences. Frontiers in Ecology and Evolution, 2021, 9, .	1.1	8
70	Annelids in evolutionary developmental biology and comparative genomics. Parasite, 2008, 15, 321-328.	0.8	7
71	Pax3/7 duplicated and diverged independently in amphioxus, the basal chordate lineage. Scientific Reports, 2018, 8, 9414.	1.6	7
72	When is a Hox gene not a Hox gene? The importance of gene nomenclature. , 2008, , 175-193.		6

#	ARTICLE	IF	CITATIONS
73	The dynamics of alkaline phosphatase activity during operculum regeneration in the polychaete <i>Pomatoceros lamarckii</i> . <i>International Journal of Developmental Biology</i> , 2014, 58, 635-642.	0.3	6
74	Transcriptional regulation of the <i>Ciona</i> <i>Gsx</i> gene in the neural plate. <i>Developmental Biology</i> , 2019, 448, 88-100.	0.9	5
75	Biominaleralisation during operculum regeneration in the polychaete <i>Spirobranchus lamarcki</i> . <i>Marine Biology</i> , 2014, 161, 2621-2629.	0.7	4
76	Evolutionary diversification of the canonical Wnt signaling effector TCF/LEF in chordates. <i>Development Growth and Differentiation</i> , 2022, , .	0.6	4
77	Airy Beams for Light-sheet Microscopy. <i>Microscopy and Microanalysis</i> , 2015, 21, 1723-1724.	0.2	2
78	Genome Biology: Unconventional DNA Repair in an Extreme Genome. <i>Current Biology</i> , 2018, 28, R1208-R1210.	1.8	2
79	Micro-RNA Clusters Integrate Evolutionary Constraints on Expression and Target Affinities: The miR-6/5/4/286/3/309 Cluster in <i>Drosophila</i> . <i>Molecular Biology and Evolution</i> , 2020, 37, 2955-2965.	3.5	2
80	The Hox-TALE has been wagging for a long time. <i>ELife</i> , 2014, 3, e02515.	2.8	2
81	Gill Transcriptomic Responses to Toxin-producing Alga <i>Prymnesium parvum</i> in Rainbow Trout. <i>Frontiers in Immunology</i> , 2021, 12, 794593.	2.2	2
82	15-P003 An EST screen from the annelid <i>Pomatoceros lamarckii</i> reveals patterns of gene loss and gain in animals. <i>Mechanisms of Development</i> , 2009, 126, S247-S248.	1.7	1
83	Evolutionary Developmental Genomics: At the 2008 meeting of the European Society for Evolutionary Developmental Biology. <i>Genomics</i> , 2010, 95, 247-249.	1.3	1
84	Amphioxus SYCP1: a case of retrogene replacement and co-option of regulatory elements adjacent to the ParaHox cluster. <i>Development Genes and Evolution</i> , 2018, 228, 13-30.	0.4	1
85	Amphioxus muscle transcriptomes reveal vertebrate-like myoblast fusion genes and a highly conserved role of insulin signalling in the metabolism of muscle. <i>BMC Genomics</i> , 2022, 23, 93.	1.2	1
86	11-P006 Ancient animal homeobox genes, in a novel chordate context. <i>Mechanisms of Development</i> , 2009, 126, S185-S186.	1.7	0
87	Hox and ParaHox Genes in Evolution, Development and Genomics. <i>Genomics, Proteomics and Bioinformatics</i> , 2011, 9, 63-64.	3.0	0
88	A multimodal holographic system for optical manipulation and injection of developing embryos. , 2012, , .		0
89	Holographic approach for optical poration and trapping of developing embryos. , 2013, , .		0
90	Integrated 3D macro-trapping and light-sheet imaging system. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
91	Horizons in evolutionary genomics: an interview with David Ferrier. BMC Biology, 2018, 16, 124.	1.7	0