

William R Jeffery

List of Publications by Year in descending order

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115
papers

7,906
citations

50276

46
h-index

60623

81
g-index

130
all docs

130
docs citations

130
times ranked

3977
citing authors

#	ARTICLE	IF	CITATIONS
1	Genetic analysis of cavefish reveals molecular convergence in the evolution of albinism. <i>Nature Genetics</i> , 2006, 38, 107-111.	21.4	492
2	Cavefish as a Model System in Evolutionary Developmental Biology. <i>Developmental Biology</i> , 2001, 231, 1-12.	2.0	320
3	Cryptic Variation in Morphological Evolution: HSP90 as a Capacitor for Loss of Eyes in Cavefish. <i>Science</i> , 2013, 342, 1372-1375.	12.6	319
4	Regressive Evolution in <i>Astyanax</i> Cavefish. <i>Annual Review of Genetics</i> , 2009, 43, 25-47.	7.6	268
5	Central Role for the Lens in Cave Fish Eye Degeneration. <i>Science</i> , 2000, 289, 631-633.	12.6	257
6	The cavefish genome reveals candidate genes for eye loss. <i>Nature Communications</i> , 2014, 5, 5307.	12.8	256
7	Evolution of a Behavioral Shift Mediated by Superficial Neuromasts Helps Cavefish Find Food in Darkness. <i>Current Biology</i> , 2010, 20, 1631-1636.	3.9	247
8	Hedgehog signalling controls eye degeneration in blind cavefish. <i>Nature</i> , 2004, 431, 844-847.	27.8	240
9	Migratory neural crest-like cells form body pigmentation in a urochordate embryo. <i>Nature</i> , 2004, 431, 696-699.	27.8	225
10	Adaptive Evolution of Eye Degeneration in the Mexican Blind Cavefish. <i>Journal of Heredity</i> , 2005, 96, 185-196.	2.4	191
11	Pleiotropic functions of embryonic sonic hedgehog expression link jaw and taste bud amplification with eye loss during cavefish evolution. <i>Developmental Biology</i> , 2009, 330, 200-211.	2.0	187
12	A yellow crescent cytoskeletal domain in ascidian eggs and its role in early development. <i>Developmental Biology</i> , 1983, 96, 125-143.	2.0	185
13	Loss of Schooling Behavior in Cavefish through Sight-Dependent and Sight-Independent Mechanisms. <i>Current Biology</i> , 2013, 23, 1874-1883.	3.9	182
14	Evidence for Multiple Genetic Forms with Similar Eyeless Phenotypes in the Blind Cavefish, <i>Astyanax mexicanus</i> . <i>Molecular Biology and Evolution</i> , 2002, 19, 446-455.	8.9	165
15	The role of gene flow in rapid and repeated evolution of cave-related traits in Mexican tetra, <i>Astyanax mexicanus</i> . <i>Molecular Ecology</i> , 2018, 27, 4397-4416.	3.9	160
16	Evolution of an adaptive behavior and its sensory receptors promotes eye regression in blind cavefish. <i>BMC Biology</i> , 2012, 10, 108.	3.8	141
17	Evolution and development in cave animals: from fish to crustaceans. <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , 2012, 1, 823-845.	5.9	130
18	Convergence in feeding posture occurs through different genetic loci in independently evolved cave populations of <i>Astyanax mexicanus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 16933-16938.	7.1	126

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19	Expanded expression of Sonic Hedgehog in <i>Astyanax</i> cavefish: multiple consequences on forebrain development and evolution. <i>Development (Cambridge)</i> , 2007, 134, 845-855.	2.5	124
20	A Potential Benefit of Albinism in <i>Astyanax</i> Cavefish: Downregulation of the <i>oca2</i> Gene Increases Tyrosine and Catecholamine Levels as an Alternative to Melanin Synthesis. <i>PLoS ONE</i> , 2013, 8, e80823.	2.5	108
21	The sensitivity of lateral line receptors and their role in the behavior of Mexican blind cavefish (<i>Astyanax mexicanus</i>). <i>Journal of Experimental Biology</i> , 2014, 217, 886-95.	1.7	99
22	Development and evolution of craniofacial patterning is mediated by eye-dependent and -independent processes in the cavefish <i>Astyanax</i> . <i>Evolution & Development</i> , 2003, 5, 435-446.	2.0	97
23	Evolution of alternate modes of development in ascidians. <i>BioEssays</i> , 1992, 14, 219-226.	2.5	94
24	De Novo Sequencing of <i>Astyanax mexicanus</i> Surface Fish and Pachón Cavefish Transcriptomes Reveals Enrichment of Mutations in Cavefish Putative Eye Genes. <i>PLoS ONE</i> , 2013, 8, e53553.	2.5	93
25	Distinct genetic architecture underlies the emergence of sleep loss and prey-seeking behavior in the Mexican cavefish. <i>BMC Biology</i> , 2015, 13, 15.	3.8	93
26	Trunk lateral cells are neural crest-like cells in the ascidian <i>Ciona intestinalis</i> : Insights into the ancestry and evolution of the neural crest. <i>Developmental Biology</i> , 2008, 324, 152-160.	2.0	90
27	Chapter 8 Evolution and Development in the Cavefish <i>Astyanax</i> . <i>Current Topics in Developmental Biology</i> , 2009, 86, 191-221.	2.2	90
28	Multiple origins of anural development in ascidians inferred from rDNA sequences. <i>Journal of Molecular Evolution</i> , 1995, 40, 413-427.	1.8	89
29	Emerging model systems in <i>evodevo</i> : cavefish and microevolution of development. <i>Evolution & Development</i> , 2008, 10, 265-272.	2.0	86
30	Fundamental research questions in subterranean biology. <i>Biological Reviews</i> , 2020, 95, 1855-1872.	10.4	86
31	Evolution of Eye Regression in the Cavefish <i>Astyanax</i> : Apoptosis and the <i>Pax-6</i> Gene. <i>American Zoologist</i> , 1998, 38, 685-696.	0.7	85
32	Quantitative Genetic Analysis of Retinal Degeneration in the Blind Cavefish <i>Astyanax mexicanus</i> . <i>PLoS ONE</i> , 2013, 8, e57281.	2.5	84
33	Early and late changes in <i>Pax6</i> expression accompany eye degeneration during cavefish development. <i>Development Genes and Evolution</i> , 2001, 211, 138-144.	0.9	82
34	An epigenetic mechanism for cavefish eye degeneration. <i>Nature Ecology and Evolution</i> , 2018, 2, 1155-1160.	7.8	78
35	Developmental mechanisms for retinal degeneration in the blind cavefish <i>Astyanax mexicanus</i> . <i>Journal of Comparative Neurology</i> , 2007, 505, 221-233.	1.6	76
36	Environmental DNA in subterranean biology: range extension and taxonomic implications for <i>Proteus</i> . <i>Scientific Reports</i> , 2017, 7, 45054.	3.3	74

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37	Interspecific hybridization between an anural and urodele ascidian: Differential expression of urodele features suggests multiple mechanisms control anural development. <i>Developmental Biology</i> , 1990, 142, 319-334.	2.0	73
38	Synteny and candidate gene prediction using an anchored linkage map of <i>Astyanax mexicanus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 20106-20111.	7.1	73
39	The Lens Has a Specific Influence on Optic Nerve and Tectum Development in the Blind Cavefish <i>Astyanax</i>. <i>Developmental Neuroscience</i> , 2004, 26, 308-317.	2.0	71
40	Ascidian neural crest-like cells: phylogenetic distribution, relationship to larval complexity, and pigment cell fate. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2006, 306B, 470-480.	1.3	62
41	The lens controls cell survival in the retina: Evidence from the blind cavefish <i>Astyanax</i> . <i>Developmental Biology</i> , 2007, 311, 512-523.	2.0	60
42	Evolution of pigment cell regression in the cavefish <i>Astyanax</i> : a late step in melanogenesis. <i>Evolution & Development</i> , 2004, 6, 209-218.	2.0	57
43	Blind cavefish and heat shock protein chaperones: a novel role for hsp90alpha in lens apoptosis. <i>International Journal of Developmental Biology</i> , 2004, 48, 731-738.	0.6	55
44	Shadow response in the blind cavefish <i>Astyanax</i> reveals conservation of a functional pineal eye. <i>Journal of Experimental Biology</i> , 2008, 211, 292-299.	1.7	54
45	Genome Editing Using TALENs in Blind Mexican Cavefish, <i>Astyanax mexicanus</i> . <i>PLoS ONE</i> , 2015, 10, e0119370.	2.5	54
46	Mechanism of an Evolutionary Change in Muscle Cell Differentiation in Ascidians with Different Modes of Development. <i>Developmental Biology</i> , 1996, 174, 379-392.	2.0	50
47	To See or Not to See: Evolution of Eye Degeneration in Mexican Blind Cavefish. <i>Integrative and Comparative Biology</i> , 2003, 43, 531-541.	2.0	50
48	Evolution of Chordate Actin Genes: Evidence from Genomic Organization and Amino Acid Sequences. <i>Journal of Molecular Evolution</i> , 1997, 44, 289-298.	1.8	49
49	Phenotypic plasticity as a mechanism of cave colonization and adaptation. <i>ELife</i> , 2020, 9, .	6.0	48
50	The role of a lens survival pathway including sox2 and α -crystallin in the evolution of cavefish eye degeneration. <i>EvoDevo</i> , 2014, 5, 28.	3.2	47
51	<i>Astyanax</i> surface and cave fish morphs. <i>EvoDevo</i> , 2020, 11, 14.	3.2	47
52	Regeneration of oral siphon pigment organs in the ascidian <i>Ciona intestinalis</i> . <i>Developmental Biology</i> , 2010, 339, 374-389.	2.0	46
53	Determinants of cell and positional fate in ascidian embryos. <i>International Review of Cytology</i> , 2001, 203, 3-62.	6.2	45
54	Evolution of Space Dependent Growth in the Teleost <i>Astyanax mexicanus</i> . <i>PLoS ONE</i> , 2012, 7, e41443.	2.5	45

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55	Closing the wounds: One hundred and twenty five years of regenerative biology in the ascidian <i>Ciona intestinalis</i> . <i>Genesis</i> , 2015, 53, 48-65.	1.6	45
56	Evolution of albinism in cave planthoppers by a convergent defect in the first step of melanin biosynthesis. <i>Evolution & Development</i> , 2012, 14, 196-203.	2.0	44
57	Expression of an <i>Msx</i> homeobox gene in ascidians: Insights into the archetypal chordate expression pattern. <i>Development</i> , 1996, 205, 308-318.		40
58	Non-optical releasers for aggressive behavior in blind and blinded <i>Astyanax</i> (Teleostei, Characidae). <i>Behavioural Processes</i> , 2005, 70, 144-148.	1.1	38
59	Lens gene expression analysis reveals downregulation of the anti-apoptotic chaperone α -crystallin during cavefish eye degeneration. <i>Development Genes and Evolution</i> , 2007, 217, 771-782.	0.9	38
60	Programmed cell death in the ascidian embryo: modulation by <i>FoxA5</i> and <i>Manx</i> and roles in the evolution of larval development. <i>Mechanisms of Development</i> , 2002, 118, 111-124.	1.7	37
61	Chordate ancestry of the neural crest: New insights from ascidians. <i>Seminars in Cell and Developmental Biology</i> , 2007, 18, 481-491.	5.0	37
62	Evolution of Ascidian Development. <i>BioScience</i> , 1997, 47, 417-425.	4.9	35
63	Probing teleost eye development by lens transplantation. <i>Methods</i> , 2002, 28, 420-426.	3.8	35
64	Enhanced prey capture skills in <i>Astyanax</i> cavefish larvae are independent from eye loss. <i>EvoDevo</i> , 2014, 5, 35.	3.2	35
65	Behavioural changes controlled by catecholaminergic systems explain recurrent loss of pigmentation in cavefish. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20180243.	2.6	35
66	Maternal genetic effects in <i>Astyanax</i> cavefish development. <i>Developmental Biology</i> , 2018, 441, 209-220.	2.0	35
67	Ooplasmic segregation of the myoplasmic actin network in stratified ascidian eggs. <i>Wilhelm Roux's Archives of Developmental Biology</i> , 1984, 193, 257-262.	1.4	34
68	Heterochronic expression of an adult muscle actin gene during ascidian larval development. <i>Genesis</i> , 1994, 15, 51-63.	2.1	32
69	Brazilian cave heritage under siege. <i>Science</i> , 2022, 375, 1238-1239.	12.6	32
70	PARENTAL GENETIC EFFECTS IN A CAVEFISH ADAPTIVE BEHAVIOR EXPLAIN DISPARITY BETWEEN NUCLEAR AND MITOCHONDRIAL DNA. <i>Evolution; International Journal of Organic Evolution</i> , 2012, 66, 2975-2982.	2.3	31
71	Factors necessary for restoring an evolutionary change in an anural ascidian embryo. <i>Developmental Biology</i> , 1992, 153, 194-205.	2.0	30
72	Retinal homeobox genes and the role of cell proliferation in cavefish eye degeneration. <i>International Journal of Developmental Biology</i> , 2002, 46, 285-94.	0.6	29

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73	Evolutionary tuning of an adaptive behavior requires enhancement of the neuromast sensory system. <i>Communicative and Integrative Biology</i> , 2011, 4, 89-91.	1.4	28
74	Temporal and spatial expression of a cytoskeletal actin gene in the ascidian <i>Styela clava</i> . <i>Genesis</i> , 1990, 11, 2-14.	2.1	26
75	Conservation of retinal circadian rhythms during cavefish eye degeneration. <i>Evolution & Development</i> , 2006, 8, 16-22.	2.0	26
76	Evolution of the chordate regeneration blastema: Differential gene expression and conserved role of notch signaling during siphon regeneration in the ascidian <i>Ciona</i> . <i>Developmental Biology</i> , 2015, 405, 304-315.	2.0	26
77	Lens opacity and photoreceptor degeneration in the zebrafish lens opaque mutant. <i>Developmental Dynamics</i> , 2005, 233, 52-65.	1.8	25
78	Distal regeneration involves the age dependent activity of branchial sac stem cells in the ascidian <i>Ciona intestinalis</i> . <i>Regeneration (Oxford, England)</i> , 2015, 2, 1-18.	6.3	25
79	Vestigial Brain Melanocyte Development During Embryogenesis of an Anural Ascidian. (anural) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 1071</i> <i>Differentiation</i> , 1992, 34, 17-25.	1.5	21
80	Differentially expressed genes identified by cross-species microarray in the blind cavefish <i>Astyanax</i> . <i>Integrative Zoology</i> , 2009, 4, 99-109.	2.6	21
81	The Recently-Described Ascidian Species <i>Molgula tectiformis</i> Is a Direct Developer. <i>Zoological Science</i> , 1997, 14, 297-303.	0.7	20
82	Cavefish cope with environmental hypoxia by developing more erythrocytes and overexpression of hypoxia-inducible genes. <i>eLife</i> , 2022, 11, .	6.0	19
83	Complex Evolutionary and Genetic Patterns Characterize the Loss of Scleral Ossification in the Blind Cavefish <i>Astyanax mexicanus</i> . <i>PLoS ONE</i> , 2015, 10, e0142208.	2.5	18
84	A hypomorphic cystathionine γ -synthase gene contributes to cavefish eye loss by disrupting optic vasculature. <i>Nature Communications</i> , 2020, 11, 2772.	12.8	18
85	A gastrulation center in the ascidian egg. <i>Development (Cambridge)</i> , 1992, 116, 53-63.	2.5	18
86	Regeneration, Stem Cells, and Aging in the Tunicate <i>Ciona</i> . <i>International Review of Cell and Molecular Biology</i> , 2015, 319, 255-282.	3.2	17
87	Neural Crest Transplantation Reveals Key Roles in the Evolution of Cavefish Development. <i>Integrative and Comparative Biology</i> , 2018, 58, 411-420.	2.0	17
88	Siphon regeneration capacity is compromised during aging in the ascidian <i>Ciona intestinalis</i> . <i>Mechanisms of Ageing and Development</i> , 2012, 133, 629-636.	4.6	16
89	Genome Editing in <i>Astyanax mexicanus</i> ; Using Transcription Activator-like Effector Nucleases (TALENs). <i>Journal of Visualized Experiments</i> , 2016, . .	0.3	14
90	Progenitor targeting by adult stem cells in <i>Ciona</i> homeostasis, injury, and regeneration. <i>Developmental Biology</i> , 2019, 448, 279-290.	2.0	14

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91	The tunicate <i>Ciona</i> : a model system for understanding the relationship between regeneration and aging. <i>Invertebrate Reproduction and Development</i> , 2015, 59, 17-22.	0.8	13
92	An ankryin-like protein in ascidian eggs and its role in the evolution of direct development. <i>Zygote</i> , 1993, 1, 197-208.	1.1	12
93	Localization of ribosomal protein L5 mRNA in myoplasm during ascidian development. <i>Genesis</i> , 1996, 19, 258-267.	2.1	12
94	Regressive Evolution of Pigmentation in the Cavefish <i>Astyanax</i> . <i>Israel Journal of Ecology and Evolution</i> , 2006, 52, 405-422.	0.6	12
95	Evolutionary tuning of an adaptive behavior requires enhancement of the neuromast sensory system. <i>Communicative and Integrative Biology</i> , 2011, 4, 89-91.	1.4	12
96	The forkhead gene FH1 is involved in evolutionary modification of the ascidian tadpole larva. <i>Mechanisms of Development</i> , 1999, 85, 49-58.	1.7	10
97	Evolution and development of brain sensory organs in molgulid ascidians. <i>Evolution & Development</i> , 2004, 6, 170-179.	2.0	10
98	Pigment Regression and Albinism in <i>Astyanax</i> Cavefish. , 2016, , 155-173.		10
99	Dual roles of the retinal pigment epithelium and lens in cavefish eye degeneration. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2020, 334, 438-449.	1.3	10
100	Role of cell interactions in ascidian muscle and pigment cell specification. <i>Roux's Archives of Developmental Biology</i> , 1993, 202, 103-111.	1.2	8
101	<i>Astyanax Mexicanus</i> . , 2012, , 36-43.		8
102	The Comparative Organismal Approach in Evolutionary Developmental Biology. <i>Current Topics in Developmental Biology</i> , 2016, 116, 489-500.	2.2	8
103	A model for ascidian development and developmental modifications during evolution. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 1994, 74, 35-48.	0.8	7
104	Role of PCNA and ependymal cells in ascidian neural development. <i>Gene</i> , 2002, 287, 97-105.	2.2	7
105	Apoptosis is a generator of Wnt-dependent regeneration and homeostatic cell renewal in the ascidian <i>Ciona</i> . <i>Biology Open</i> , 2021, 10, .	1.2	7
106	Maternal control of visceral asymmetry evolution in <i>Astyanax</i> cavefish. <i>Scientific Reports</i> , 2021, 11, 10312.	3.3	7
107	<i>Astyanax mexicanus</i> : A vertebrate model for evolution, adaptation, and development in caves. , 2019, , 85-93.		6
108	Incremental Temperature Changes for Maximal Breeding and Spawning in <i>Astyanax mexicanus</i> . <i>Journal of Visualized Experiments</i> , 2021, , .	0.3	6

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109	Translational control and the cytoskeleton in <i>Physarum polycephalum</i> . <i>Cytoskeleton</i> , 1987, 7, 129-137.	4.4	5
110	Ascidian gene-expression profiles. <i>Genome Biology</i> , 2002, 3, reviews1030.1.	9.6	5
111	The location of maternal mRNA in eggs and embryos. <i>BioEssays</i> , 1984, 1, 196-199.	2.5	4
112	Seeing a bright future for a blind fish. <i>Developmental Biology</i> , 2018, 441, 207-208.	2.0	1
113	Regeneration and Aging in the Tunicate <i>Ciona intestinalis</i> . , 2018, , 521-531.		1
114	EYE DEVELOPMENT IN THE CAVEFISH <i>ASTYANAX</i> : ROLE OF PROGRAMMED CELL DEATH AND THE PAX-6 GENE. <i>Biochemical Society Transactions</i> , 1996, 24, 549S-549S.	3.4	0
115	Adapting to the dark side: a review of <i>Cave Biology: Life in Darkness</i> , by Aldemaro Romero. <i>Evolution & Development</i> , 2010, 12, 343-344.	2.0	0