John H Postlethwait

List of Publications by Year
in descending order

334 papers	35,528 citations	5268 83 h-index	4228 174 g-index
357 all docs	357 docs citations	357 times ranked	29321 citing authors

#	Article	IF	Citations
1	The zebrafish reference genome sequence and its relationship to the human genome. Nature, 2013, 496, 498-503.	27.8	3,708
2	Preservation of Duplicate Genes by Complementary, Degenerative Mutations. Genetics, 1999, 151, 1531-1545.	2.9	3,147
3	<i>Stacks</i>: Building and Genotyping Loci <i>De Novo</i> From Short-Read Sequences. G3: Genes, Genomes, Genetics, 2011, 1, 171-182.	1.8	1,643
4	Zebrafish <i>hox</i> Clusters and Vertebrate Genome Evolution. Science, 1998, 282, 1711-1714.	12.6	1,551
5	Vertebrate genome evolution and the zebrafish gene map. Nature Genetics, 1998, 18, 345-349.	21.4	792
6	Zebrafish Comparative Genomics and the Origins of Vertebrate Chromosomes. Genome Research, 2000, 10, 1890-1902.	5.5	616
7	The African coelacanth genome provides insights into tetrapod evolution. Nature, 2013, 496, 311-316.	27.8	612
8	The spotted gar genome illuminates vertebrate evolution and facilitates human-teleost comparisons. Nature Genetics, 2016, 48, 427-437.	21.4	545
9	TheclocheandspadetailGenes Differentially Affect Hematopoiesis and Vasculogenesis. Developmental Biology, 1998, 197, 248-269.	2.0	467
10	A homeobox gene essential for zebrafish notochord development. Nature, 1995, 378, 150-157.	27.8	441
11	The Zebrafish Glypican Knypek Controls Cell Polarity during Gastrulation Movements of Convergent Extension. Developmental Cell, 2001, 1, 251-264.	7.0	417
12	A Genetic Linkage Map for the Zebrafish. Science, 1994, 264, 699-703.	12.6	377
13	Subfunction partitioning, the teleost radiation and the annotation of the human genome. Trends in Genetics, 2004, 20, 481-490.	6.7	370
14	A Comparative Map of the Zebrafish Genome. Genome Research, 2000, 10, 1903-1914.	5.5	364
15	The zebrafish gene map defines ancestral vertebrate chromosomes. Genome Research, 2005, 15, 1307-1314.	5.5	343
16	Characterization and expression pattern of zebrafish anti-MÃ¼llerian hormone (amh) relative to sox9a, sox9b, and cyp19a1a, during gonad development. Gene Expression Patterns, 2005, 5, 655-667.	0.8	342
17	Genome Evolution and Meiotic Maps by Massively Parallel DNA Sequencing: Spotted Gar, an Outgroup for the Teleost Genome Duplication. Genetics, 2011, 188, 799-808.	2.9	333
18	Parallel genetic basis for repeated evolution of armor loss in Alaskan threespine stickleback populations. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 6050-6055.	7.1	319

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19	SCL/Tal-1 transcription factor acts downstream of cloche to specify hematopoietic and vascular progenitors inÂzebrafish. Genes and Development, 1998, 12, 621-626.	5.9	312
20	MicroRNA Mirn140 modulates Pdgf signaling during palatogenesis. Nature Genetics, 2008, 40, 290-298.	21.4	308
21	Two Sox9 Genes on Duplicated Zebrafish Chromosomes: Expression of Similar Transcription Activators in Distinct Sites. Developmental Biology, 2001, 231, 149-163.	2.0	303
22	A pair of Sox: distinct and overlapping functions of zebrafish sox9 co-orthologs in craniofacial and pectoral fin development. Development (Cambridge), 2005, 132, 1069-1083.	2.5	294
23	Gene evolution and gene expression after whole genome duplication in fish: the PhyloFish database. BMC Genomics, 2016, 17, 368.	2.8	288
24	Radiation hybrid mapping of the zebrafish genome. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 9745-9750.	7.1	282
25	Wild Sex in Zebrafish: Loss of the Natural Sex Determinant in Domesticated Strains. Genetics, 2014, 198, 1291-1308.	2.9	282
26	Effect of Genetic Diagnosis on Patients with Previously Undiagnosed Disease. New England Journal of Medicine, 2018, 379, 2131-2139.	27.0	261
27	Runx1 is required for zebrafish blood and vessel development and expression of a human RUNX1-CBF2T1 transgene advances a model for studies of leukemogenesis. Development (Cambridge), 2002, 129, 2015-2030.	2.5	257
28	A zebrafish<i>sox9</i>gene required for cartilage morphogenesis. Development (Cambridge), 2002, 129, 5065-5079.	2.5	252
29	Plasticity of Animal Genome Architecture Unmasked by Rapid Evolution of a Pelagic Tunicate. Science, 2010, 330, 1381-1385.	12.6	251
30	The genome of the platyfish, Xiphophorus maculatus, provides insights into evolutionary adaptation and several complex traits. Nature Genetics, 2013, 45, 567-572.	21.4	251
31	Zebrafish<i>smoothened</i>functions in ventral neural tube specification and axon tract formation. Development (Cambridge), 2001, 128, 3497-3509.	2.5	243
32	A Medaka Gene Map: The Trace of Ancestral Vertebrate Proto-Chromosomes Revealed by Comparative Gene Mapping. Genome Research, 2004, 14, 820-828.	5.5	241
33	goosecoid Expression in neurectoderm and mesendoderm is disrupted in zebrafish cyclops gastrulas. Developmental Biology, 1994, 164, 420-429.	2.0	228
34	Expression of a type II collagen gene in the zebrafish embryonic axis. Developmental Dynamics, 1995, 203, 363-376.	1.8	212
35	Multiple Sex-Associated Regions and a Putative Sex Chromosome in Zebrafish Revealed by RAD Mapping and Population Genomics. PLoS ONE, 2012, 7, e40701.	2.5	211
36	Automated identification of conserved synteny after whole-genome duplication. Genome Research, 2009, 19, 1497-1505.	5.5	205

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37	Two Cyp19 (P450 Aromatase) Genes on Duplicated Zebrafish Chromosomes Are Expressed in Ovary or Brain. Molecular Biology and Evolution, 2001, 18, 542-550.	8.9	199
38	Developmental Roles of Pufferfish <i>Hox</i> Clusters and Genome Evolution in Ray-Fin Fish. Genome Research, 2004, 14, 1-10.	5.5	183
39	MARRVEL: Integration of Human and Model Organism Genetic Resources to Facilitate Functional Annotation of the Human Genome. American Journal of Human Genetics, 2017, 100, 843-853.	6.2	181
40	Mapping of Mhc class I and class II regions to different linkage groups in the zebrafish, Danio rerio. Immunogenetics, 1997, 46, 129-134.	2.4	176
41	Sex Reversal in Zebrafish fancl Mutants Is Caused by Tp53-Mediated Germ Cell Apoptosis. PLoS Genetics, 2010, 6, e1001034.	3.5	175
42	Centromere-Linkage Analysis and Consolidation of the Zebrafish Genetic Map. Genetics, 1996, 142, 1277-1288.	2.9	170
43	Sex-Specific Recombination Rates in Zebrafish (<i>Danio rerio</i>). Genetics, 2002, 160, 649-657.	2.9	169
44	Expression ofsnail2,a Second Member of the Zebrafish Snail Family, in Cephalic Mesendoderm and Presumptive Neural Crest of Wild-Type andspadetailMutant Embryos. Developmental Biology, 1995, 172, 86-99.	2.0	168
45	Model Organisms Facilitate Rare Disease Diagnosis and Therapeutic Research. Genetics, 2017, 207, 9-27.	2.9	165
46	miRNA Nomenclature: A View Incorporating Genetic Origins, Biosynthetic Pathways, and Sequence Variants. Trends in Genetics, 2015, 31, 613-626.	6.7	164
47	The Gene History of Zebrafish <i>tlr4a</i> and <i>tlr4b</i> Is Predictive of Their Divergent Functions. Journal of Immunology, 2009, 183, 5896-5908.	0.8	160
48	The sterlet sturgeon genome sequence and the mechanisms of segmental rediploidization. Nature Ecology and Evolution, 2020, 4, 841-852.	7.8	159
49	The regulation of yolk polypeptide synthesis in Drosophila ovaries and fat body by 20-hydroxyecdysone and a juvenile hormone analog. Developmental Biology, 1980, 80, 225-234.	2.0	146
50	Evolutionary mutant models for human disease. Trends in Genetics, 2009, 25, 74-81.	6.7	142
51	The Undiagnosed Diseases Network: Accelerating Discovery about Health and Disease. American Journal of Human Genetics, 2017, 100, 185-192.	6.2	142
52	Pattern formation and determination in the antenna of the homoeotic mutant Antennapedia of Drosophila melanogaster. Developmental Biology, 1971, 25, 606-640.	2.0	138
53	The zebrafish genome in context: ohnologs gone missing. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2007, 308B, 563-577.	1.3	137
54	Cell-specific mitotic defect and dyserythropoiesis associated with erythroid band 3 deficiency. Nature Genetics, 2003, 34, 59-64.	21.4	132

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55	Sexual phenotype and vitellogenin synthesis in Drosophila melanogaster. Developmental Biology, 1980, 79, 379-387.	2.0	130
56	Workshop Biology: Demonstrating the Effectiveness of Active Learning in an Introductory Biology Course. BioScience, 2002, 52, 272.	4.9	123
57	Deep conservation of wrist and digit enhancers in fish. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 803-808.	7.1	121
58	Zebrafish genomics: From mutants to genes. Trends in Genetics, 1997, 13, 183-190.	6.7	120
59	Evolution and development of facial bone morphology in threespine sticklebacks. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 5791-5796.	7.1	115
60	Evolutionary developmental biology and genomics. Nature Reviews Genetics, 2007, 8, 932-942.	16.3	115
61	Antarctic blackfin icefish genome reveals adaptations to extreme environments. Nature Ecology and Evolution, 2019, 3, 469-478.	7.8	115
62	Genetic Interactions in Zebrafish Midline Development. Developmental Biology, 1997, 187, 154-170.	2.0	113
63	A zebrafish sox9 gene required for cartilage morphogenesis. Development (Cambridge), 2002, 129, 5065-79.	2.5	113
64	Circadian Modulation of Dopamine Levels and Dopaminergic Neuron Development Contributes to Attention Deficiency and Hyperactive Behavior. Journal of Neuroscience, 2015, 35, 2572-2587.	3.6	111
65	Runx1 is required for zebrafish blood and vessel development and expression of a human RUNX1-CBF2T1 transgene advances a model for studies of leukemogenesis. Development (Cambridge), 2002, 129, 2015-30.	2.5	109
66	Half-tetrad analysis in zebrafish: mapping the ros mutation and the centromere of linkage group I.. Genetics, 1995, 139, 1727-1735.	2.9	108
67	A clonal analysis of development inDrosophila melanogaster: Morphogenesis, determination, and growth in the wild-type antenna. Developmental Biology, 1971, 24, 477-519.	2.0	107
68	One melanocortinâ€ƒ4 and two melanocortinâ€ƒ5 receptors from zebrafish show remarkable conservation in structure and pharmacology. Journal of Neurochemistry, 2002, 82, 6-18.	3.9	107
69	Development of the central nervous system in the larvacean Oikopleura dioica and the evolution of the chordate brain. Developmental Biology, 2005, 285, 298-315.	2.0	107
70	Identification of the master sex determining gene in Northern pike (Esox lucius) reveals restricted sex chromosome differentiation. PLoS Genetics, 2019, 15, e1008013.	3.5	107
71	Mutations in fam20b and xylt1 Reveal That Cartilage Matrix Controls Timing of Endochondral Ossification by Inhibiting Chondrocyte Maturation. PLoS Genetics, 2011, 7, e1002246.	3.5	106
72	Zebrafishstat3 is expressed in restricted tissues during embryogenesis andstat1 rescues cytokine signaling in aSTAT1-deficient human cell line. Developmental Dynamics, 1999, 215, 352-370.	1.8	105

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73	Caspy, a Zebrafish Caspase, Activated by ASC Oligomerization Is Required for Pharyngeal Arch Development. Journal of Biological Chemistry, 2003, 278, 4268-4276.	3.4	104
74	Studies of threespine stickleback developmental evolution: progress and promise. Genetica, 2006, 129, 105-126.	1.1	102
75	Polyploidy in Fish and the Teleost Genome Duplication. , 2012, , 341-383.		102
76	JUVENILE HORMONE AND THE ADULT DEVELOPMENT OFDROSOPHILA. Biological Bulletin, 1974, 147, 119-135.	1.8	101
77	Genome duplication, subfunction partitioning, and lineage divergence:Sox9in stickleback and zebrafish. Developmental Dynamics, 2003, 228, 480-489.	1.8	100
78	Genetic Linkage Mapping of Zebrafish Genes and ESTs. Genome Research, 2000, 10, 558-567.	5.5	98
79	The zebrafish klf gene family. Blood, 2001, 98, 1792-1801.	1.4	98
80	A new model army: Emerging fish models to study the genomics of vertebrate Evoâ€Devo. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2015, 324, 316-341.	1.3	98
81	Chapter 8 The Zebrafish Genome. Methods in Cell Biology, 1998, , 149-163.	1.1	97
82	Hox cluster organization in the jawless vertebratePetromyzon marinus. The Journal of Experimental Zoology, 2002, 294, 30-46.	1.4	96
83	Duplicate zebrafish runx2 orthologues are expressed in developing skeletal elements. Gene Expression Patterns, 2004, 4, 573-581.	0.8	96
84	A Syndromic Neurodevelopmental Disorder Caused by De Novo Variants in EBF3. American Journal of Human Genetics, 2017, 100, 128-137.	6.2	96
85	Roles of brca2 (fancd1) in Oocyte Nuclear Architecture, Gametogenesis, Gonad Tumors, and Genome Stability in Zebrafish. PLoS Genetics, 2011, 7, e1001357.	3.5	91
86	Molecular pedomorphism underlies craniofacial skeletal evolution in Antarctic notothenioid fishes. BMC Evolutionary Biology, 2010, 10, 4.	3.2	89
87	Vitellogenesis induced by Juvenile Hormone in the Female Sterile Mutant apterous-four in Drosophila melanogaster. Nature: New Biology, 1973, 244, 284-285.	4.5	88
88	The development of the imaginal abdomen of Drosophila melanogaster. Developmental Biology, 1973, 32, 361-372.	2.0	87
89	Foxl2 and Its Relatives Are Evolutionary Conserved Players in Gonadal Sex Differentiation. Sexual Development, 2016, 10, 111-129.	2.0	87
90	The genome sequence of the Antarctic bullhead notothen reveals evolutionary adaptations to a cold environment. Genome Biology, 2014, 15, 468.	8.8	86

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91	Zebrafish Acetylcholinesterase Is Encoded by a Single Gene Localized on Linkage Group 7. Journal of Biological Chemistry, 2001, 276, 464-474.	3.4	85
92	Phylogeny of Zebrafish, a â€œModel Species,â€• within Danio, a â€œModel Genusâ€• Molecular Biology and Evolution, 2015, 32, 635-652.	8.9	85
93	The repertoire of trace amine G-protein-coupled receptors: large expansion in zebrafish. Molecular Phylogenetics and Evolution, 2005, 35, 470-482.	2.7	84
94	Evidence for Evolving Toll-IL-1 Receptor-Containing Adaptor Molecule Function in Vertebrates. Journal of Immunology, 2007, 178, 4517-4527.	0.8	83
95	Evolution of the Eye Transcriptome under Constant Darkness in Sinocyclocheilus Cavefish. Molecular Biology and Evolution, 2013, 30, 1527-1543.	8.9	83
96	Retinoic Acid Metabolic Genes, Meiosis, and Gonadal Sex Differentiation in Zebrafish. PLoS ONE, 2013, 8, e73951.	2.5	83
97	Genetic and Endocrine Regulation of Vitellogenesis inDrosophila. American Zoologist, 1981, 21, 687-700.	0.7	81
98	Expression ofsox11 gene duplicates in zebrafish suggests the reciprocal loss of ancestral gene expression patterns in development. , 2000, 217, 279-292.		80
99	A RAD-Tag Genetic Map for the Platyfish (<i>Xiphophorus maculatus</i>) Reveals Mechanisms of Karyotype Evolution Among Teleost Fish. Genetics, 2014, 197, 625-641.	2.9	80
100	The Repertoire of Na,K-ATPase alpha and beta Subunit Genes Expressed in the Zebrafish, Danio rerio. Genome Research, 2001, 11, 1211-1220.	5.5	76
101	Characterization of a Yâ€specific duplication/insertion of the antiâ€Mullerian hormone type II receptor gene based on a chromosomeâ€scale genome assembly of yellow perch, <i>Perca flavescens</i>. Molecular Ecology Resources, 2020, 20, 531-543.	4.8	76
102	Is retinoic acid genetic machinery a chordate innovation?. Evolution & Development, 2006, 8, 394-406.	2.0	75
103	miR-196 regulates axial patterning and pectoral appendage initiation. Developmental Biology, 2011, 357, 463-477.	2.0	74
104	Sox9 Is Upstream of MicroRNA-140 in Cartilage. Applied Biochemistry and Biotechnology, 2012, 166, 64-71.	2.9	74
105	Characterization of duplicated zebrafishcyp19 genes. The Journal of Experimental Zoology, 2001, 290, 709-714.	1.4	73
106	Identification of RAPD Primers That Reveal Extensive Polymorphisms between Laboratory Strains of Zebrafish. Genomics, 1994, 19, 152-156.	2.9	72
107	The FaceBase Consortium: A comprehensive program to facilitate craniofacial research. Developmental Biology, 2011, 355, 175-182.	2.0	72
108	Endocrine control of vitellogenesis inDrosophila melanogaster: Effects of the brain and corpus allatum. The Journal of Experimental Zoology, 1977, 202, 389-401.	1.4	71

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109	Development of a chordate anteriorâ€"posterior axis without classical retinoic acid signaling. Developmental Biology, 2007, 305, 522-538.	2.0	71
110	Zebrafish Genes for Neuropeptide Y and Peptide YY Reveal Origin by Chromosome Duplication from an Ancestral Gene Linked to the Homeobox Cluster. Journal of Neurochemistry, 2002, 75, 908-918.	3.9	70
111	Pattern formation in imaginal discs of Drosophila melanogaster after irradiation of embryos and young larvae. Developmental Biology, 1973, 32, 345-360.	2.0	69
112	Gene Duplication of Zebrafish JAK2 Homologs Is Accompanied by Divergent Embryonic Expression Patterns: Only jak2a Is Expressed During Erythropoiesis. Blood, 1999, 94, 2622-2636.	1.4	69
113	Developmental genetic basis for the evolution of pelvic fin loss in the pufferfish Takifugu rubripes. Developmental Biology, 2005, 281, 227-239.	2.0	69
114	IRF2BPL Is Associated with Neurological Phenotypes. American Journal of Human Genetics, 2018, 103, 245-260.	6.2	69
115	Consequences of Lineage-Specific Gene Loss on Functional Evolution of Surviving Paralogs: ALDH1A and Retinoic Acid Signaling in Vertebrate Genomes. PLoS Genetics, 2009, 5, e1000496.	3.5	69
116	Ancient origin of lubricated joints in bony vertebrates. ELife, 2016, 5, .	6.0	69
117	A Comparative Map of the Zebrafish Genome. Genome Research, 2000, 10, 1903-1914.	5.5	69
118	De Novo Truncating Variants in ASXL2 Are Associated with a Unique and Recognizable Clinical Phenotype. American Journal of Human Genetics, 2016, 99, 991-999.	6.2	68
119	Gonadal soma controls ovarian follicle proliferation through Gsdf in zebrafish. Developmental Dynamics, 2017, 246, 925-945.	1.8	68
120	Evolution of Sarcomeric Myosin Heavy Chain Genes: Evidence from Fish. Molecular Biology and Evolution, 2004, 21, 1042-1056.	8.9	66
121	Vertebrate sex-determining genes play musical chairs. Comptes Rendus - Biologies, 2016, 339, 258-262.	0.2	65
122	Femaleâ€specific increase in primordial germ cells marks sex differentiation in threespine stickleback (<i>Gasterosteus aculeatus</i>). Journal of Morphology, 2008, 269, 909-921.	1.2	64
123	Brachyury (T) Expression in Embryos of a Larvacean Urochordate, Oikopleura dioica, and the Ancestral Role of T. Developmental Biology, 2000, 220, 322-332.	2.0	63
124	RAD marker microarrays enable rapid mapping of zebrafish mutations. Genome Biology, 2007, 8, R105.	9.6	62
125	Evolution of the osteoblast: skeletogenesis in gar and zebrafish. BMC Evolutionary Biology, 2012, 12, 27.	3.2	62
126	Roles for Zebrafish Focal Adhesion Kinase in Notochord and Somite Morphogenesis. Developmental Biology, 2001, 240, 474-487.	2.0	60

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127	A comprehensive iterative approach is highly effective in diagnosing individuals who are exome negative. Genetics in Medicine, 2019, 21, 161-172.	2.4	60
128	FGF-receptor signalling controls neural cell diversity in the zebrafish hindbrain by regulating <i>olig2</i> and <i>sox9</i>. Development (Cambridge), 2010, 137, 33-42.	2.5	59
129	Biallelic Mutations in ATP5F1D, which Encodes a Subunit of ATP Synthase, Cause a Metabolic Disorder. American Journal of Human Genetics, 2018, 102, 494-504.	6.2	59
130	Lysosomal Storage and Albinism Due to Effects of a De Novo CLCN7 Variant on Lysosomal Acidification. American Journal of Human Genetics, 2019, 104, 1127-1138.	6.2	59
131	Expanding the Spectrum of BAF-Related Disorders: De Novo Variants in SMARCC2 Cause a Syndrome with Intellectual Disability and Developmental Delay. American Journal of Human Genetics, 2019, 104, 164-178.	6.2	59
132	Cloning, expression and relationship of zebrafish gbx1 and gbx2 genes to Fgf signaling. Mechanisms of Development, 2003, 120, 919-936.	1.7	58
133	fgf17b, a novel member of Fgf family, helps patterning zebrafish embryos. Developmental Biology, 2004, 271, 130-143.	2.0	58
134	Sparc (Osteonectin) functions in morphogenesis of the pharyngeal skeleton and inner ear. Matrix Biology, 2008, 27, 561-572.	3.6	57
135	Identification of Duplicated Fourth Î±2-Adrenergic Receptor Subtype by Cloning and Mapping of Five Receptor Genes in Zebrafish. Molecular Biology and Evolution, 2004, 21, 14-28.	8.9	56
136	Characterization of the retinoic acid receptor genes raraa, rarab and rarg during zebrafish development. Gene Expression Patterns, 2006, 6, 546-555.	0.8	55
137	Evolution of the<i>miR199-214</i>cluster and vertebrate skeletal development. RNA Biology, 2014, 11, 281-294.	3.1	54
138	The role of a retinoic acid response element in establishing the anterior neural expression border of Hoxd4 transgenes. Mechanisms of Development, 2003, 120, 325-335.	1.7	53
139	Model organisms contribute to diagnosis and discovery in the undiagnosed diseases network: current state and a future vision. Orphanet Journal of Rare Diseases, 2021, 16, 206.	2.7	53
140	The synthesis of drosophila melanogaster vitellogenins in vivo , in culture, and in a cell-free translation system. FEBS Letters, 1978, 95, 247-251.	2.8	52
141	The Role of Fanconi Anemia/BRCA Genes in Zebrafish Sex Determination. Methods in Cell Biology, 2011, 105, 461-490.	1.1	52
142	Molecular evolution and functional divergence of zebrafish (Danio rerio) cryptochrome genes. Scientific Reports, 2015, 5, 8113.	3.3	52
143	Evolution of gene expression after wholeâ€genome duplication: New insights from the spotted gar genome. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2017, 328, 709-721.	1.3	52
144	UDP xylose synthase 1 is required for morphogenesis and histogenesis of the craniofacial skeleton. Developmental Biology, 2010, 341, 400-415.	2.0	51

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145	Origin of the prolactin-releasing hormone (PRLH) receptors: Evidence of coevolution between PRLH and a redundant neuropeptide Y receptor during vertebrate evolution. Genomics, 2005, 85, 688-703.	2.9	50
146	Dynamic Evolution of the LPS-Detoxifying Enzyme Intestinal Alkaline Phosphatase in Zebrafish and Other Vertebrates. Frontiers in Immunology, 2012, 3, 314.	4.8	50
147	Genetic analysis of the hormonally regulated yolk polypeptide genes in D. melanogaster. Cell, 1980, 20, 671-678.	28.9	49
148	Chromosomal Organization, Evolutionary Relationship, and Expression of Zebrafish GnRH Family Members. Journal of Biomedical Science, 2005, 12, 629-639.	7.0	49
149	Stereospecificity and PAX6 function direct Hoxd4 neural enhancer activity along the antero-posterior axis. Developmental Biology, 2006, 299, 582-593.	2.0	49
150	Conserved function of caspase-8 in apoptosis during bony fish evolution. Gene, 2007, 396, 134-148.	2.2	49
151	Characterization of retinoid-X receptor genes rxra, rxrba, rxrbb and rxrg during zebrafish development. Gene Expression Patterns, 2006, 6, 556-565.	0.8	48
152	Endocrine control of larval fat body histolysis in normal and mutantDrosophila melanogaster. The Journal of Experimental Zoology, 1978, 203, 207-214.	1.4	47
153	Sequence homologies among the three yolk polypeptide (Yp) genes inDrosophila melanogaster. Nucleic Acids Research, 1987, 15, 67-85.	14.5	47
154	Gene duplication, gene loss and evolution of expression domains in the vertebrate nuclear receptor NR5A (Ftz-F1) family. Biochemical Journal, 2005, 389, 19-26.	3.7	47
155	Lipid droplet biology and evolution illuminated by the characterization of a novel perilipin in teleost fish. ELife, 2017, 6, .	6.0	47
156	Expression profiling of zebrafish sox9 mutants reveals that Sox9 is required for retinal differentiation. Developmental Biology, 2009, 329, 1-15.	2.0	46
157	Nonvitellogenic female sterile mutants and the regulation of vitellogenesis in Drosophila melanogaster. Developmental Biology, 1978, 67, 202-213.	2.0	45
158	Neuropeptide Y receptor subtype with unique properties cloned in the zebrafish: the zYa receptor. Molecular Brain Research, 1999, 70, 242-252.	2.3	45
159	Cooperative Action of ADMP- and BMP-Mediated Pathways in Regulating Cell Fates in the Zebrafish Gastrula. Developmental Biology, 2002, 241, 59-78.	2.0	45
160	A Hormone That Lost Its Receptor: Anti-MÃ¼llerian Hormone (AMH) in Zebrafish Gonad Development and Sex Determination. Genetics, 2019, 213, 529-553.	2.9	45
161	Biosynthesis ofDrosophila yolk polypeptides. Archives of Insect Biochemistry and Physiology, 1985, 2, 7-27.	1.5	44
162	De Novo Variants in WDR37 Are Associated with Epilepsy, Colobomas, Dysmorphism, Developmental Delay, Intellectual Disability, and Cerebellar Hypoplasia. American Journal of Human Genetics, 2019, 105, 413-424.	6.2	43

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163	Female Sex Development and Reproductive Duct Formation Depend on Wnt4a in Zebrafish. Genetics, 2019, 211, 219-233.	2.9	43
164	INDUCTION OF METAMORPHOSIS BY ECDYSONE ANALOGUES:DROSOPHILAIMAGINAL DISCS CULTUREDIN VIVO. Biological Bulletin, 1970, 138, 47-55.	1.8	41
165	Hormonal regulation of synthesis of yolk proteins and a larval serum protein (LSP2) in Drosophila. Nature, 1981, 292, 633-635.	27.8	41
166	Functional characterization and genetic mapping of alk8. Mechanisms of Development, 2001, 100, 275-289.	1.7	41
167	Conserved Synteny and the Zebrafish Genome. Methods in Cell Biology, 2011, 104, 259-285.	1.1	41
168	Na,K-ATPase Î± and Î² subunit genes exhibit unique expression patterns during zebrafish embryogenesis. Mechanisms of Development, 2002, 116, 51-59.	1.7	40
169	An SP1-like transcription factor Spr2 acts downstream of Fgf signaling to mediate mesoderm induction. EMBO Journal, 2003, 22, 6078-6088.	7.8	40
170	miRNA analysis with Prost! reveals evolutionary conservation of organ-enriched expression and post-transcriptional modifications in three-spined stickleback and zebrafish. Scientific Reports, 2019, 9, 3913.	3.3	40
171	RADSex: A computational workflow to study sex determination using restriction siteâ€associated DNA sequencing data. Molecular Ecology Resources, 2021, 21, 1715-1731.	4.8	40
172	Chapter 18 Banded Chromosomes and the Zebrafish Karyotype. Methods in Cell Biology, 1998, 60, 323-338.	1.1	39
173	The zebrafish kidney mutant zeppelin reveals that brca2/fancd1 is essential for pronephros development. Developmental Biology, 2017, 428, 148-163.	2.0	38
174	MicroRNAs and micromanaging the skeleton in disease, development and evolution. Journal of Cellular and Molecular Medicine, 2009, 13, 606-618.	3.6	37
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