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List of Publications by Citations

68 papers	4,679 citations	32 h-index	68 g-index
80 ext. papers	5,605 ext. citations	7.7 avg, IF	5.21 L-index

#	Paper	IF	Citations
68	Genome duplication, a trait shared by 22000 species of ray-finned fish. *Genome Research*, **2003**, 13, 382-90	9.7	671
67	The African coelacanth genome provides insights into tetrapod evolution. *Nature*, **2013**, 496, 311-6	50.4	488
66	Comparative genomics provides evidence for an ancient genome duplication event in fish. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2001**, 356, 1661-79	5.8	386
65	The spotted gar genome illuminates vertebrate evolution and facilitates human-teleost comparisons. *Nature Genetics*, **2016**, 48, 427-37	36.3	352
64	The genome of the platyfish, Xiphophorus maculatus, provides insights into evolutionary adaptation and several complex traits. *Nature Genetics*, **2013**, 45, 567-72	36.3	201
63	Gene evolution and gene expression after whole genome duplication in fish: the PhyloFish database. *BMC Genomics*, **2016**, 17, 368	4.5	183
62	Multiple sex-associated regions and a putative sex chromosome in zebrafish revealed by RAD mapping and population genomics. *PLoS ONE*, **2012**, 7, e40701	3.7	161
61	The ghost of selection past: rates of evolution and functional divergence of anciently duplicated genes. *Journal of Molecular Evolution*, **2001**, 53, 436-46	3.1	158
60	Evolution of pigment synthesis pathways by gene and genome duplication in fish. *BMC Evolutionary Biology*, **2007**, 7, 74	3	154
59	Deep conservation of wrist and digit enhancers in fish. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 803-8	11.5	96
58	Many genes in fish have species-specific asymmetric rates of molecular evolution. *BMC Genomics*, **2006**, 7, 20	4.5	89
57	Transcriptional rewiring of the sex determining dmrt1 gene duplicate by transposable elements. *PLoS Genetics*, **2010**, 6, e1000844	6	86
56	Pigmentation pathway evolution after whole-genome duplication in fish. *Genome Biology and Evolution*, **2009**, 1, 479-93	3.9	84
55	Adaptive sequence evolution in a color gene involved in the formation of the characteristic egg-dummies of male haplochromine cichlid fishes. *BMC Biology*, **2007**, 5, 51	7.3	83
54	A new model army: Emerging fish models to study the genomics of vertebrate Evo-Devo. *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution*, **2015**, 324, 316-41	1.8	77
53	The evolution of cichlid fish egg-spots is linked with a cis-regulatory change. *Nature Communications*, **2014**, 5, 5149	17.4	76
52	Polyploidy in Fish and the Teleost Genome Duplication **2012**, 341-383		73

51	Subdivisions of the adult zebrafish pallium based on molecular marker analysis. *F1000Research*, **2014**, 3, 308	3.6	72
50	The endothelin system: evolution of vertebrate-specific ligand-receptor interactions by three rounds of genome duplication. *Molecular Biology and Evolution*, **2009**, 26, 783-99	8.3	68
49	Asymmetric evolution in two fish-specifically duplicated receptor tyrosine kinase paralogons involved in teleost coloration. *Molecular Biology and Evolution*, **2006**, 23, 1192-202	8.3	67
48	The sterlet sturgeon genome sequence and the mechanisms of segmental rediploidization. *Nature Ecology and Evolution*, **2020**, 4, 841-852	12.3	65
47	Fish pigmentation and the melanocortin system. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2017**, 211, 26-33	2.6	60
46	Pigmentary function and evolution of tyrp1 gene duplicates in fish. *Pigment Cell and Melanoma Research*, **2009**, 22, 839-50	4.5	59
45	Evolution of the eye transcriptome under constant darkness in Sinocyclocheilus cavefish. *Molecular Biology and Evolution*, **2013**, 30, 1527-43	8.3	58
44	Evolution of melanocortin receptors in teleost fish: the melanocortin type 1 receptor. *Gene*, **2007**, 401, 114-22	3.8	54
43	Subdivisions of the adult zebrafish pallium based on molecular marker analysis. *F1000Research*, **2014**, 3, 308	3.6	51
42	Annotation of expressed sequence tags for the East African cichlid fish Astatotilapia burtoni and evolutionary analyses of cichlid ORFs. *BMC Genomics*, **2008**, 9, 96	4.5	47
41	Ancient origin of lubricated joints in bony vertebrates. *ELife*, **2016**, 5,	8.9	45
40	Conserved synteny and the zebrafish genome. *Methods in Cell Biology*, **2011**, 104, 259-85	1.8	40
39	Comparative genomics of ParaHox clusters of teleost fishes: gene cluster breakup and the retention of gene sets following whole genome duplications. *BMC Genomics*, **2007**, 8, 312	4.5	38
38	The evolution of teleost pigmentation and the fish-specific genome duplication. *Journal of Fish Biology*, **2008**, 73, 1891-1918	1.9	37
37	Evolution of gene expression after whole-genome duplication: New insights from the spotted gar genome. *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution*, **2017**, 328, 709-721	1.8	33
36	Histone deacetylase-4 is required during early cranial neural crest development for generation of the zebrafish palatal skeleton. *BMC Developmental Biology*, **2012**, 12, 16	3.1	30
35	Evolution of Endothelin signaling and diversification of adult pigment pattern in Danio fishes. *PLoS Genetics*, **2018**, 14, e1007538	6	30
34	Regulatory back-up circuit of medaka Wt1 co-orthologs ensures PGC maintenance. *Developmental Biology*, **2009**, 325, 179-88	3.1	28

33	A BAC library of the East African haplochromine cichlid fish Astatotilapia burtoni. *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution*, **2006**, 306, 35-44	1.8	28
32	Countershading in zebrafish results from an Asip1 controlled dorsoventral gradient of pigment cell differentiation. *Scientific Reports*, **2019**, 9, 3449	4.9	26
31	The teleost agouti-related protein 2 gene is an ohnolog gone missing from the tetrapod genome. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, E47-8	11.5	26
30	Lineage-specific co-evolution of the Egf receptor/ligand signaling system. *BMC Evolutionary Biology* , **2010**, 10, 27	3	26
29	Deep evolutionary origin of limb and fin regeneration. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 15106-15115	11.5	24
28	Evolution of endothelin receptors in vertebrates. *General and Comparative Endocrinology*, **2014**, 209, 21-34	3	20
27	Connectivity of vertebrate genomes: Paired-related homeobox (Prrx) genes in spotted gar, basal teleosts, and tetrapods. *Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology*, **2014**, 163, 24-36	3.2	19
26	Molecular analysis of the sex-determining region of the platyfish Xiphophorus maculatus. *Zebrafish*, **2006**, 3, 299-309	2	19
25	RADSex: A computational workflow to study sex determination using restriction site-associated DNA sequencing data. *Molecular Ecology Resources*, **2021**, 21, 1715-1731	8.4	16
24	BAC Recombineering of the Agouti Loci from Spotted Gar and Zebrafish Reveals the Evolutionary Ancestry of Dorsal-Ventral Pigment Asymmetry in Fish. *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution*, **2017**, 328, 697-708	1.8	15
23	In ovo omnia: diversification by duplication in fish and other vertebrates. *Journal of Biology*, **2009**, 8, 25		15
22	Characterization and Evolution of the Spotted Gar Retina. *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution*, **2016**, 326, 403-421	1.8	14
21	SCPP Genes and Their Relatives in Gar: Rapid Expansion of Mineralization Genes in Osteichthyans. *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution*, **2017**, 328, 645-665	1.8	14
20	Loss-of-function mutations in the melanocortin 1 receptor cause disruption of dorso-ventral countershading in teleost fish. *Pigment Cell and Melanoma Research*, **2019**, 32, 817-828	4.5	13
19	Pth4, an ancient parathyroid hormone lost in eutherian mammals, reveals a new brain-to-bone signaling pathway. *FASEB Journal*, **2017**, 31, 569-583	0.9	12
18	Reply to: \Subfunctionalization versus neofunctionalization after whole-genome duplicationV *Nature Genetics*, **2018**, 50, 910-911	36.3	11
17	Analyzing the signaling properties of gar (Lepisosteus oculatus) melanocortin receptors: Evaluating interactions with MRAP1 and MRAP2. *General and Comparative Endocrinology*, **2019**, 282, 113215	3	10
16	Epigenetic factors Dnmt1 and Uhrf1 coordinate intestinal development. *Developmental Biology*, **2019**, 455, 473-484	3.1	9

15	The bowfin genome illuminates the developmental evolution of ray-finned fishes. *Nature Genetics*, **2021**, 53, 1373-1384	36.3	9
14	Expansion of the Ago gene family in the teleost clade. *Development Genes and Evolution*, **2011**, 221, 95-108	1.8	8
13	Genome desertification in eutherians: can gene deserts explain the uneven distribution of genes in placental mammalian genomes?. *Journal of Molecular Evolution*, **2009**, 69, 207-16	3.1	7
12	Skeletal development in the heterocercal caudal fin of spotted gar (lepisosteus oculatus) and other lepisosteiformes. *Developmental Dynamics*, **2018**, 247, 724-740	2.9	6
11	A novel marker for the platyfish (Xiphophorus maculatus) W chromosome is derived from a Polinton transposon. *Journal of Genetics and Genomics*, **2010**, 37, 181-8	4	5
10	Bilateral visual projections exist in non-teleost bony fish and predate the emergence of tetrapods. *Science*, **2021**, 372, 150-156	33.3	5
9	The genome of the bowfin (Amia calva) illuminates the developmental evolution of ray-finned fishes		3
8	Zebrafish Phylogeny and Taxonomy **2020**, 15-24		3
7	Genome Evolution: Domestication of the Allopolyploid Goldfish. *Current Biology*, **2020**, 30, R812-R815	6.3	2
6	Evolution of the nitric oxide synthase family in vertebrates and novel insights in gill development		2
5	RADSex: a computational workflow to study sex determination using Restriction Site-Associated DNA Sequencing data		1
4	Zebrafish Genetics **2020**, 25-39		1
3	Convergent losses of SCPP genes and ganoid scales among non-teleost actinopterygians. *Gene*, **2021**, 811, 146091	3.8	0
2	Holosteans contextualize the role of the teleost genome duplication in promoting the rise of evolutionary novelties in the ray-finned fish innate immune system. *Immunogenetics*, **2021**, 73, 479-497	3.2	0
1	Cellular mechanisms of frontal bone development in spotted gar (Lepisosteus oculatus). *Developmental Dynamics*, **2021**, 250, 1668-1682	2.9	