Genome evolution in the allotetraploid frog Xenopus la

Nature

538, 336-343

DOI: 10.1038/nature19840

Citation Report

#	Article	IF	Citations
1	Foxn4 promotes gene expression required for multiple motile cilia formation. Development (Cambridge), 2016, 143, 4654-4664.	1.2	36
2	A matched set of frog sequences. Nature, 2016, 538, 320-321.	13.7	4
3	Unexpected X-ray flares. Nature, 2016, 538, 321-322.	13.7	0
4	Genome-wide analysis of dorsal and ventral transcriptomes of the Xenopus laevis gastrula. Developmental Biology, 2017, 426, 176-187.	0.9	39
5	Generation of a Xenopus laevis F1 albino J strain by genome editing and oocyte host-transfer. Developmental Biology, 2017, 426, 188-193.	0.9	17
6	MÃ¼ller glia reactivity follows retinal injury despite the absence of the glial fibrillary acidic protein gene in Xenopus. Developmental Biology, 2017, 426, 219-235.	0.9	26
7	Expanding the genetic toolkit in Xenopus: Approaches and opportunities for human disease modeling. Developmental Biology, 2017, 426, 325-335.	0.9	103
8	Identification of new regulators of embryonic patterning and morphogenesis in Xenopus gastrulae by RNA sequencing. Developmental Biology, 2017, 426, 429-441.	0.9	19
9	Xenopus genomic data and browser resources. Developmental Biology, 2017, 426, 194-199.	0.9	13
10	What we can learn from a tadpole about ciliopathies and airway diseases: Using systems biology in Xenopus to study cilia and mucociliary epithelia. Genesis, 2017, 55, e23001.	0.8	72
11	Using Xenopus to understand human disease and developmental disorders. Genesis, 2017, 55, e22997.	0.8	38
12	Probing forebrain to hindbrain circuit functions in Xenopus. Genesis, 2017, 55, e22999.	0.8	9
13	Seeing the future: using Xenopus to understand eye regeneration. Genesis, 2017, 55, e23003.	0.8	18
14	AmphiBase: A new genomic resource for nonâ€model amphibian species. Genesis, 2017, 55, e23010.	0.8	2
15	Spinal cord regeneration in Xenopus laevis. Nature Protocols, 2017, 12, 372-389.	5.5	24
16	Xenopus laevis as a model system to study cytoskeletal dynamics during axon pathfinding. Genesis, 2017, 55, e22994.	0.8	8
17	Targeted integration of genes in Xenopus tropicalis. Genesis, 2017, 55, e23006.	0.8	5
18	High variability of expression profiles of homeologous genes for Wnt, Hh, Notch, and Hippo signaling pathways in Xenopus laevis. Developmental Biology, 2017, 426, 270-290.	0.9	16

#	Article	IF	Citations
19	Genomic integration of Wnt/Î²-catenin and BMP/Smad1 signaling coordinates foregut and hindgut transcriptional program. Development (Cambridge), 2017, 144, 1283-1295.	1.2	39
20	De novo hybrid assembly of the rubber tree genome reveals evidence of paleotetraploidy in Hevea species. Scientific Reports, 2017, 7, 41457.	1.6	95
21	Venomics analyses of the skin secretion of Dermatonotus muelleri : Preliminary proteomic and metabolomic profiling. Toxicon, 2017, 130, 127-135.	0.8	9
22	Genomic and transcriptomic approaches to study immunology in cyprinids: What is next?. Developmental and Comparative Immunology, 2017, 75, 48-62.	1.0	31
23	Frogs model man: In vivo thyroid hormone signaling during development. Genesis, 2017, 55, e23000.	0.8	36
24	Genome assembly with in vitro proximity ligation data and whole-genome triplication in lettuce. Nature Communications, 2017, 8, 14953.	5.8	330
25	Xenopus egg extract: A powerful tool to study genome maintenance mechanisms. Developmental Biology, 2017, 428, 300-309.	0.9	46
26	Masculinization-Related Genes and Cell-Mass Structures During Early Gonadal Differentiation in the African Clawed Frog Xenopus laevis. Zoological Science, 2017, 34, 105.	0.3	5
27	Spemann organizer transcriptome induction by early beta-catenin, Wnt, Nodal, and Siamois signals in Xenopus laevis. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3081-E3090.	3.3	41
28	Co-accumulation of cis-regulatory and coding mutations during the pseudogenization of the Xenopus laevis homoeologs six6.L and six6.S. Developmental Biology, 2017, 427, 84-92.	0.9	13
29	The evolutionary significance of polyploidy. Nature Reviews Genetics, 2017, 18, 411-424.	7.7	1,288
30	Editorial: The Xenopus laevis genome. Developmental Biology, 2017, 426, 139-142.	0.9	1
31	XenopusVasa Homolog XVLG1 is Essential for Migration and Survival of Primordial Germ Cells. Zoological Science, 2017, 34, 93-104.	0.3	8
32	Distinct cis-acting regions control six6 expression during eye field and optic cup stages of eye formation. Developmental Biology, 2017, 426, 418-428.	0.9	13
33	Genomic compartments in barley. Nature, 2017, 544, 424-425.	13.7	18
35	RARÎ²2 is required for vertebrate somitogenesis. Development (Cambridge), 2017, 144, 1997-2008.	1.2	9
36	Toolbox in a tadpole: Xenopus for kidney research. Cell and Tissue Research, 2017, 369, 143-157.	1.5	23
37	Lineage-specific rediploidization is a mechanism to explain time-lags between genome duplication and evolutionary diversification. Genome Biology, 2017, 18, 111.	3.8	136

#	Article	IF	Citations
38	Sex Chromosome Evolution, Heterochiasmy, and Physiological QTL in the Salmonid Brook Charr Salvelinus fontinalis. G3: Genes, Genomes, Genetics, 2017, 7, 2749-2762.	0.8	38
39	Digital dissection of the model organism Xenopus laevis using contrastâ€enhanced computed tomography. Journal of Anatomy, 2017, 231, 169-191.	0.9	25
40	Functional Characterization of Xenopus Thyroid Hormone Transporters mct8 and oatp1c1. Endocrinology, 2017, 158, 2694-2705.	1.4	9
41	Cells from subcutaneous tissues contribute to scarless skin regeneration in Xenopus laevis froglets. Developmental Dynamics, 2017, 246, 585-597.	0.8	16
42	Xenopus metamorphosis as a model to study thyroid hormone receptor function during vertebrate developmental transitions. Molecular and Cellular Endocrinology, 2017, 459, 64-70.	1.6	60
43	De novo assembly of the Aedes aegypti genome using Hi-C yields chromosome-length scaffolds. Science, 2017, 356, 92-95.	6.0	1,513
44	Transcriptomic insights into genetic diversity of protein-coding genes in X. laevis. Developmental Biology, 2017, 424, 181-188.	0.9	10
45	Asymmetrically reduced expression of hand1 homeologs involving a single nucleotide substitution in a cis -regulatory element. Developmental Biology, 2017, 425, 152-160.	0.9	3
46	Evolutionary tuning of TRPA1 and TRPV1 thermal and chemical sensitivity in vertebrates. Temperature, 2017, 4, 141-152.	1.7	42
47	Tumor Immunology Viewed from Alternative Animal Modelsâ€"the Xenopus Story. Current Pathobiology Reports, 2017, 5, 49-56.	1.6	10
48	Genomic innovation for crop improvement. Nature, 2017, 543, 346-354.	13.7	301
49	XenopusPiwi proteins interact with a broad proportion of the oocyte transcriptome. Rna, 2017, 23, 504-520.	1.6	14
50	Role of maternal Xenopus syntabulin in germ plasm aggregation and primordial germ cell specification. Developmental Biology, 2017, 432, 237-247.	0.9	10
51	DNA sequencing at 40: past, present and future. Nature, 2017, 550, 345-353.	13.7	729
52	The Power of Xenopus Egg Extract for Reconstitution of Centromere and Kinetochore Function. Progress in Molecular and Subcellular Biology, 2017, 56, 59-84.	0.9	10
53	Karyotype Stability and Unbiased Fractionation in the Paleo-Allotetraploid Cucurbita Genomes. Molecular Plant, 2017, 10, 1293-1306.	3.9	263
54	interleukin-11 induces and maintains progenitors of different cell lineages during Xenopus tadpole tail regeneration. Nature Communications, 2017, 8, 495.	5.8	42
55	Case Studies of Seven Gene Families with Unusual High Retention Rate Since the Vertebrate and Teleost Whole-Genome Duplications. , 2017, , 369-396.		3

#	Article	IF	Citations
56	Filaggrin has evolved from an â€œS100 fusedâ€type proteinâ€•(<scp>SFTP</scp>) gene present in a common ancestor of amphibians and mammals. Experimental Dermatology, 2017, 26, 955-957.	1.4	14
57	Xenopus laevis M18BP1 Directly Binds Existing CENP-A Nucleosomes to Promote Centromeric Chromatin Assembly. Developmental Cell, 2017, 42, 190-199.e10.	3.1	56
58	Modeling Dominant and Recessive Forms of Retinitis Pigmentosa by Editing Three Rhodopsin-Encoding Genes in Xenopus Laevis Using Crispr/Cas9. Scientific Reports, 2017, 7, 6920.	1.6	31
59	RNA Localization in the Vertebrate Oocyte: Establishment of Oocyte Polarity and Localized mRNA Assemblages. Results and Problems in Cell Differentiation, 2017, 63, 189-208.	0.2	14
60	Comprehensive analyses of hox gene expression in Xenopus laevis embryos and adult tissues. Development Growth and Differentiation, 2017, 59, 526-539.	0.6	16
61	Roles of two types of heparan sulfate clusters in Wnt distribution and signaling in Xenopus. Nature Communications, 2017, 8, 1973.	5.8	38
62	The North American bullfrog draft genome provides insight into hormonal regulation of long noncoding RNA. Nature Communications, 2017, 8, 1433.	5.8	86
63	Evolution of the Largest Mammalian Genome. Genome Biology and Evolution, 2017, 9, 1711-1724.	1.1	20
64	High efficiency non-mosaic CRISPR mediated knock-in and mutations in F0 Xenopus. Development (Cambridge), 2017, 144, 2852-2858.	1.2	71
65	Xenopus-FV3 host-pathogen interactions and immune evasion. Virology, 2017, 511, 309-319.	1.1	22
66	Conservatism and variability of gene expression profiles among homeologous transcription factors in Xenopus laevis. Developmental Biology, 2017, 426, 301-324.	0.9	24
67	Clustered Xenopus keratin genes: A genomic, transcriptomic, and proteomic analysis. Developmental Biology, 2017, 426, 384-392.	0.9	16
68	Luteinizing Hormone is an effective replacement for hCG to induce ovulation in Xenopus. Developmental Biology, 2017, 426, 442-448.	0.9	15
69	Robust identification of Ptbp1-dependent splicing events by a junction-centric approach in Xenopus laevis. Developmental Biology, 2017, 426, 449-459.	0.9	4
70	Translational profiling of retinal ganglion cell optic nerve regeneration in Xenopus laevis. Developmental Biology, 2017, 426, 360-373.	0.9	20
71	Identification and comparative analyses of Siamois cluster genes in Xenopus laevis and tropicalis. Developmental Biology, 2017, 426, 374-383.	0.9	3
72	Genome organization of the vg1 and nodal3 gene clusters in the allotetraploid frog Xenopus laevis. Developmental Biology, 2017, 426, 236-244.	0.9	4
73	Noggin is required for first pharyngeal arch differentiation in the frog Xenopus tropicalis. Developmental Biology, 2017, 426, 245-254.	0.9	17

#	Article	IF	Citations
74	Genomic organization and modulation of gene expression of the TGF-Î² and FGF pathways in the allotetraploid frog Xenopus laevis. Developmental Biology, 2017, 426, 336-359.	0.9	16
75	Sex chromosome differentiation and the W- and Z-specific loci in Xenopus laevis. Developmental Biology, 2017, 426, 393-400.	0.9	40
76	MicroRNAs and ectodermal specification I. Identification of miRs and miR-targeted mRNAs in early anterior neural and epidermal ectoderm. Developmental Biology, 2017, 426, 200-210.	0.9	7
77	Exploring the functions of nonclassical MHC class Ib genes in Xenopus laevis by the CRISPR/Cas9 system. Developmental Biology, 2017, 426, 261-269.	0.9	22
78	Genes coding for cyclin-dependent kinase inhibitors are fragile in Xenopus. Developmental Biology, 2017, 426, 291-300.	0.9	2
79	Reading and editing the Pleurodeles waltl genome reveals novel features of tetrapod regeneration. Nature Communications, 2017, 8, 2286.	5.8	123
80	Title is missing!. Comparative Endocrinology, 2017, 43, 81_2-82.	0.0	0
81	The Consequences of Chromosome Segregation Errors in Mitosis and Meiosis. Biology, 2017, 6, 12.	1.3	118
82	Next Generation Sequencing of Chromosome-Specific Libraries Sheds Light on Genome Evolution in Paleotetraploid Sterlet (Acipenser ruthenus). Genes, 2017, 8, 318.	1.0	12
83	Xenopus laevis as a Model Organism for the Study of Spinal Cord Formation, Development, Function and Regeneration. Frontiers in Neural Circuits, 2017, 11, 90.	1.4	30
84	Evolutionary Perspective of Tumorigenesis and Antitumor Immunity: A Comparative Approach. , 2017, , 119-135.		1
85	Chromosome divergence during evolution of the tetraploid clawed frogs, Xenopus mellotropicalis and Xenopus epitropicalis as revealed by Zoo-FISH. PLoS ONE, 2017, 12, e0177087.	1.1	16
86	A molecular atlas of the developing ectoderm defines neural, neural crest, placode, and nonneural progenitor identity in vertebrates. PLoS Biology, 2017, 15, e2004045.	2.6	44
87	Rfx2 Stabilizes Foxj1 Binding at Chromatin Loops to Enable Multiciliated Cell Gene Expression. PLoS Genetics, 2017, 13, e1006538.	1.5	68
88	The house spider genome reveals an ancient whole-genome duplication during arachnid evolution. BMC Biology, 2017, 15, 62.	1.7	286
89	Regulatory remodeling in the allo-tetraploid frog Xenopus laevis. Genome Biology, 2017, 18, 198.	3.8	34
90	Xenopus as a Model Organism for Biomedical Research. , 2017, , 263-290.		2
91	Amphibian and Avian Karyotype Evolution: Insights from Lampbrush Chromosome Studies. Genes, 2017, 8, 311.	1.0	9

#	Article	IF	Citations
92	Expression of the adhesion G protein-coupled receptor A2 (adgra2) during Xenopus laevis development. Gene Expression Patterns, 2018, 28, 54-61.	0.3	0
93	Cut loose and run: The complex role of ADAM proteases during neural crest cell development. Genesis, 2018, 56, e23095.	0.8	8
94	Profound genetic divergence and asymmetric parental genome contributions as hallmarks of hybrid speciation in polyploid toads. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20172667.	1.2	18
95	Multiple large-scale gene and genome duplications during the evolution of hexapods. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4713-4718.	3.3	151
96	The atypical mitogen-activated protein kinase ERK3 is essential for establishment of epithelial architecture. Journal of Biological Chemistry, 2018, 293, 8342-8361.	1.6	1
97	Embryonic regeneration by relocalization of the Spemann organizer during twinning in Xenopus. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E4815-E4822.	3.3	13
98	Teleost Fish-Specific Preferential Retention of Pigmentation Gene-Containing Families After Whole Genome Duplications in Vertebrates. G3: Genes, Genomes, Genetics, 2018, 8, 1795-1806.	0.8	40
99	Divergent Evolutionary Trajectories of Two Young, Homomorphic, and Closely Related Sex Chromosome Systems. Genome Biology and Evolution, 2018, 10, 742-755.	1.1	19
100	Distinguishing friends, foes, and freeloaders in giant genomes. Current Opinion in Genetics and Development, 2018, 49, 49-55.	1.5	19
101	Primordial Germ Cell Transplantation for CRISPR/Cas9-based Leapfrogging in Xenopus. Journal of Visualized Experiments, 2018, , .	0.2	2
102	Amphibian Zic Genes. Advances in Experimental Medicine and Biology, 2018, 1046, 107-140.	0.8	3
103	Low-pass single-chromosome sequencing of human small supernumerary marker chromosomes (sSMCs) and Apodemus B chromosomes. Chromosoma, 2018, 127, 301-311.	1.0	18
104	A novel stress hormone response gene in tadpoles of Xenopus tropicalis. General and Comparative Endocrinology, 2018, 260, 107-114.	0.8	6
105	Reference gene identification and validation for quantitative real-time PCR studies in developing Xenopus laevis. Scientific Reports, 2018, 8, 496.	1.6	37
106	Paternal chromosome loss and metabolic crisis contribute to hybrid inviability in Xenopus. Nature, 2018, 553, 337-341.	13.7	69
107	Transposable elements and polyploid evolution in animals. Current Opinion in Genetics and Development, 2018, 49, 115-123.	1.5	35
108	Three invariant Hi-C interaction patterns: Applications to genome assembly. Methods, 2018, 142, 89-99.	1.9	17
109	Manipulation of Ploidy in Caenorhabditis elegans. Journal of Visualized Experiments, 2018, , .	0.2	3

#	Article	IF	Citations
110	Spindle assembly in egg extracts of the Marsabit clawed frog, Xenopus borealis. Cytoskeleton, 2018, 75, 244-257.	1.0	17
111	Xenopus ADAM19 regulates Wnt signaling and neural crest specification by stabilizing ADAM13. Development (Cambridge), 2018, 145, .	1.2	18
112	The role of pparÎ³ in embryonic development of Xenopus tropicalis under triphenyltin-induced teratogenicity. Science of the Total Environment, 2018, 633, 1245-1252.	3.9	13
113	A cold-blooded view of adaptive immunity. Nature Reviews Immunology, 2018, 18, 438-453.	10.6	242
114	Did Mitochondria Kill the Frog?. Developmental Cell, 2018, 44, 539-541.	3.1	3
115	Xenopusembryos to study fetal alcohol syndrome, a model for environmental teratogenesis. Biochemistry and Cell Biology, 2018, 96, 77-87.	0.9	30
116	Identification of Isthmin 1 as a Novel Clefting and Craniofacial Patterning Gene in Humans. Genetics, 2018, 208, 283-296.	1.2	18
117	Genome-wide transcriptomics analysis identifies sox7 and sox18 as specifically regulated by gata4 in cardiomyogenesis. Developmental Biology, 2018, 434, 108-120.	0.9	15
118	Tissue-Specific Gene Inactivation in Xenopus laevis: Knockout of lhx1 in the Kidney with CRISPR/Cas9. Genetics, 2018, 208, 673-686.	1.2	63
119	Hybridization and emergence of virulence in opportunistic human yeast pathogens. Yeast, 2018, 35, 5-20.	0.8	104
120	Advancing Understanding of Amphibian Evolution, Ecology, Behavior, and Conservation with Massively Parallel Sequencing. Population Genomics, 2018, , 211-254.	0.2	22
121	Double maternal-effect: duplicated nucleoplasmin 2 genes, npm2a and npm2b, with essential but distinct functions are shared by fish and tetrapods. BMC Evolutionary Biology, 2018, 18, 167.	3.2	8
122	Flow cytometric analysis of Xenopus laevis and X. tropicalis blood cells using acridine orange. Scientific Reports, 2018, 8, 16245.	1.6	6
123	AE-CNN Classification of Pulmonary Tuberculosis Based on CT Images. , 2018, , .		24
124	Physiological effects of KDM5C on neural crest migration and eye formation during vertebrate development. Epigenetics and Chromatin, 2018, 11, 72.	1.8	19
125	Functional Evaluation of Olfactory Pathways in Living Xenopus Tadpoles. Journal of Visualized Experiments, 2018, , .	0.2	2
126	New Perspectives on the Evolutionary History of Vitellogenin Gene Family in Vertebrates. Genome Biology and Evolution, 2018, 10, 2709-2715.	1.1	20
127	Na⁺/H⁺ Exchangers Are Required for the Development and Function of Vertebrate Mucociliary Epithelia. Cells Tissues Organs, 2018, 205, 279-292.	1.3	10

#	Article	IF	Citations
128	Vertebrate Genomes. Computational Biology, 2018, , 247-272.	0.1	0
129	Unique Composition of Intronless and Intron-Containing Type I IFNs in the Tibetan Frog Nanorana parkeri Provides New Evidence To Support Independent Retroposition Hypothesis for Type I IFN Genes in Amphibians. Journal of Immunology, 2018, 201, 3329-3342.	0.4	37
130	A Regeneration Toolkit. Developmental Cell, 2018, 47, 267-280.	3.1	41
131	Expression of trpv channels during Xenopus laevis embryogenesis. Gene Expression Patterns, 2018, 30, 64-70.	0.3	2
132	Divergent subgenome evolution after allopolyploidization in African clawed frogs (Xenopus). Journal of Evolutionary Biology, 2018, 31, 1945-1958.	0.8	13
133	Quantitative Proteomics of Xenopus Embryos I, Sample Preparation. Methods in Molecular Biology, 2018, 1865, 175-194.	0.4	33
134	The Ly6/uPAR protein Bouncer is necessary and sufficient for species-specific fertilization. Science, 2018, 361, 1029-1033.	6.0	81
135	Multiscale analysis of architecture, cell size and the cell cortex reveals cortical F-actin density and composition are major contributors to mechanical properties during convergent extension. Development (Cambridge), 2018, 145, .	1.2	22
136	Bighead is a Wnt antagonist secreted by the Xenopus Spemann organizer that promotes Lrp6 endocytosis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E9135-E9144.	3.3	38
137	Recent advances in understanding the roles of whole genome duplications in evolution. F1000Research, 2018, 6, 1623.	0.8	18
138	A Simple Knock-In System for Xenopus via Microhomology Mediated End Joining Repair. Methods in Molecular Biology, 2018, 1865, 91-103.	0.4	3
139	Xenbase: a genomic, epigenomic and transcriptomic model organism database. Nucleic Acids Research, 2018, 46, D861-D868.	6.5	181
140	Navigating Xenbase: An Integrated Xenopus Genomics and Gene Expression Database. Methods in Molecular Biology, 2018, 1757, 251-305.	0.4	29
141	Improving amphibian genomic resources: a multitissue reference transcriptome of an iconic invader. GigaScience, 2018, 7, 1-7.	3.3	23
142	Asymmetric distribution of biomolecules of maternal origin in the Xenopus laevis egg and their impact on the developmental plan. Scientific Reports, 2018, 8, 8315.	1.6	15
143	Proteomic Profiling of Microtubule Self-organization in M-phase. Molecular and Cellular Proteomics, 2018, 17, 1991-2004.	2.5	5
144	An alternative evolutionary pathway for the twinâ€tail goldfish via szl gene mutation. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2018, 330, 234-241.	0.6	6
145	The Molecular Basis of the Gastrula Organizer in Amphibians and Cnidarians. Diversity and Commonality in Animals, 2018, , 667-708.	0.7	3

#	Article	IF	Citations
146	Skin regeneration of amphibians: A novel model for skin regeneration as adults. Development Growth and Differentiation, 2018, 60, 316-325.	0.6	22
147	A wide variety of Mitf transcript variants are expressed in the Xenopus laevis periodic albino mutant. Genes To Cells, 2018, 23, 638-648.	0.5	2
148	Notch signaling in the division of germ layers in bilaterian embryos. Mechanisms of Development, 2018, 154, 122-144.	1.7	15
149	Conservation of mRNA quality control factor Ski7 and its diversification through changes in alternative splicing and gene duplication. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E6808-E6816.	3.3	14
151	ADAMTS9, a member of the ADAMTS family, in Xenopus development. Gene Expression Patterns, 2018, 29, 72-81.	0.3	12
152	Leapfrogging: A Method for Targeting Genome Editing to the Germline. , 0, , 84-96.		0
153	Multiple massive domestication and recent amplification of Kolobok superfamily transposons in the clawed frog Xenopus. Zoological Letters, 2018, 4, 17.	0.7	0
154	High-Throughput Screening to Identify Anesthetic Ligands Using Xenopus laevis Tadpoles. Methods in Enzymology, 2018, 602, 177-187.	0.4	4
155	Draft genome assembly of the invasive cane toad, Rhinella marina. GigaScience, 2018, 7, .	3.3	60
156	RXR Ligands Modulate Thyroid Hormone Signaling Competence in Young Xenopus laevis Tadpoles. Endocrinology, 2018, 159, 2576-2595.	1.4	12
157	Genomeâ€specific histories of divergence and introgression between an allopolyploid unisexual salamander lineage and two ancestral sexual species. Evolution; International Journal of Organic Evolution, 2018, 72, 1689-1700.	1.1	6
158	CRISPR/Cas9 disease models in zebrafish and Xenopus: The genetic renaissance of fish and frogs. Drug Discovery Today: Technologies, 2018, 28, 41-52.	4.0	39
159	Insulin-Like Growth Factor-Binding Proteins of Teleost Fishes. Frontiers in Endocrinology, 2018, 9, 80.	1.5	84
160	PLC and IP3-evoked Ca2+ release initiate the fast block to polyspermy in Xenopus laevis eggs. Journal of General Physiology, 2018, 150, 1239-1248.	0.9	17
161	The TMEM16A channel mediates the fast polyspermy block in Xenopus laevis. Journal of General Physiology, 2018, 150, 1249-1259.	0.9	35
162	Homoeolog expression bias in allopolyploid oleaginous marine diatom Fistulifera solaris. BMC Genomics, 2018, 19, 330.	1.2	41
163	Transcriptomics of dorso-ventral axis determination in Xenopus tropicalis. Developmental Biology, 2018, 439, 69-79.	0.9	0
164	Influence of temperature on reproduction and length of metamorphosis in Xenopus laevis (Amphibia: Anura). , 2018, 85, 150-157.		2

#	Article	IF	Citations
165	A role for SOX9 in post-transcriptional processes: insights from the amphibian oocyte. Scientific Reports, 2018, 8, 7191.	1.6	14
166	<i>Xenopus</i>: An Undervalued Model Organism to Study and Model Human Genetic Disease. Cells Tissues Organs, 2018, 205, 303-313.	1.3	73
167	Extreme nuclear branching in healthy epidermal cells of the Xenopus tail fin. Journal of Cell Science, 2018, 131, .	1.2	6
168	Xenopus. Methods in Molecular Biology, 2018, , .	0.4	3
169	RARÎ³ is required for mesodermal gene expression prior to gastrulation. Development (Cambridge), 2018, 145, .	1.2	8
170	Homeotic transformation of tails into limbs in anurans. Development Growth and Differentiation, 2018, 60, 365-376.	0.6	6
171	Molecular characterization of wdr68 gene in embryonic development of Xenopus laevis. Gene Expression Patterns, 2018, 30, 55-63.	0.3	3
172	Characterization of Gonadotropin-Releasing Hormone (GnRH) Genes From Cartilaginous Fish: Evolutionary Perspectives. Frontiers in Neuroscience, 2018, 12, 607.	1.4	21
173	Notch1 is asymmetrically distributed from the beginning of embryogenesis and controls the ventral center. Development (Cambridge), 2018, 145, .	1.2	10
174	Gene expression of the two developmentally regulated dermatan sulfate epimerases in the Xenopus embryo. PLoS ONE, 2018, 13, e0191751.	1.1	2
175	The causes and consequences of subgenome dominance in hybrids and recent polyploids. New Phytologist, 2018, 220, 87-93.	3.5	161
176	Comparative and Evolutionary Genomics. , 2019, , 257-267.		5
177	A Bioinformatics Protocol for Quickly Creating Large-Scale Phylogenetic Trees. Advances in Intelligent Systems and Computing, 2019, , 88-96.	0.5	1
178	Comparative Embryonic Spatio-Temporal Expression Profile Map of the Xenopus P2X Receptor Family. Frontiers in Cellular Neuroscience, 2019, 13, 340.	1.8	9
179	A new transgenic reporter line reveals Wnt-dependent Snai2 re-expression and cranial neural crest differentiation in Xenopus. Scientific Reports, 2019, 9, 11191.	1.6	14
180	Evolution of cis-regulatory modules for the head organizer gene goosecoid in chordates: comparisons between Branchiostoma and Xenopus. Zoological Letters, 2019, 5, 27.	0.7	10
181	Elucidating the functional evolution of heat sensors among Xenopus species adapted to different thermal niches by ancestral sequence reconstruction. Molecular Ecology, 2019, 28, 3561-3571.	2.0	12
182	Biofilms: Novel Strategies Based on Antimicrobial Peptides. Pharmaceutics, 2019, 11, 322.	2.0	85

#	Article	IF	Citations
183	Genotypic Frequencies at Equilibrium for Polysomic Inheritance Under Double-Reduction. G3: Genes, Genomes, Genetics, 2019, 9, 1693-1706.	0.8	31
184	A database of amphibian karyotypes. Chromosome Research, 2019, 27, 313-319.	1.0	21
185	Contribution of Mass Spectrometry-Based Proteomics to Discoveries in Developmental Biology. Advances in Experimental Medicine and Biology, 2019, 1140, 143-154.	0.8	5
186	De novo assembly of the goldfish (Carassius auratus) genome and the evolution of genes after whole-genome duplication. Science Advances, 2019, 5, eaav0547.	4.7	182
187	Advancing genetic and genomic technologies deepen the pool for discovery in Xenopus tropicalis. Developmental Dynamics, 2019, 248, 620-625.	0.8	15
188	Phosphatidylinositol 4,5-bisphosphate (PIP2) and Ca2+ are both required to open the Clâ^' channel TMEM16A. Journal of Biological Chemistry, 2019, 294, 12556-12564.	1.6	41
189	The allotetraploid origin and asymmetrical genome evolution of theÂcommon carp Cyprinus carpio. Nature Communications, 2019, 10, 4625.	5.8	156
190	Xenopus Resources: Transgenic, Inbred and Mutant Animals, Training Opportunities, and Web-Based Support. Frontiers in Physiology, 2019, 10, 387.	1.3	44
191	Gulp1 controls Eph/ephrin trogocytosis and is important for cell rearrangements during development. Journal of Cell Biology, 2019, 218, 3455-3471.	2.3	13
192	Xenbase: deep integration of GEO & SRA RNA-seq and ChIP-seq data in a model organism database. Nucleic Acids Research, 2020, 48, D776-D782.	6.5	47
193	Kif2a Scales Meiotic Spindle Size in Hymenochirus boettgeri. Current Biology, 2019, 29, 3720-3727.e5.	1.8	22
194	Conservation and divergence of protein pathways in the vertebrate heart. PLoS Biology, 2019, 17, e3000437.	2.6	18
195	An RNA Metabolism and Surveillance Quartet in the Major Histocompatibility Complex. Cells, 2019, 8, 1008.	1.8	9
196	Integration of Wnt and FGF signaling in the Xenopus gastrula at TCF and Ets binding sites shows the importance of short range repression in patterning the marginal zone. Development (Cambridge), 2019, 146, .	1.2	12
197	Xenopus fraseri: Mr. Fraser, where did your frog come from?. PLoS ONE, 2019, 14, e0220892.	1.1	24
198	Inferring the â€œPrimordial Immune Complexâ€• Origins of MHC Class I and Antigen Receptors Revealed by Comparative Genomics. Journal of Immunology, 2019, 203, 1882-1896.	0.4	24
199	Reference Gene Validation for Quantitative Real-time PCR Studies in Amphibian Kidney-derived A6 Epithelial Cells. ATLA Alternatives To Laboratory Animals, 2019, 47, 63-70.	0.7	5
200	The Many Faces of Xenopus: Xenopus laevis as a Model System to Study Wolfâ€“Hirschhorn Syndrome. Frontiers in Physiology, 2019, 10, 817.	1.3	22

#	Article	IF	Citations
201	Chromosome-level assembly of the mustache toad genome using third-generation DNA sequencing and Hi-C analysis. GigaScience, 2019, 8, .	3.3	25
202	Origin and evolution of the specialized forms of proteasomes involved in antigen presentation. Immunogenetics, 2019, 71, 251-261.	1.2	23
203	de novotranscription of multiple Hox cluster genes takes place simultaneously in earlyXenopus tropicalisembryos. Biology Open, 2019, 8, .	0.6	8
204	A deficiency in SUMOylation activity disrupts multiple pathways leading to neural tube and heart defects in Xenopus embryos. BMC Genomics, 2019, 20, 386.	1.2	11
205	Growth at Cold Temperature Increases the Number of Motor Neurons to Optimize Locomotor Function. Current Biology, 2019, 29, 1787-1799.e5.	1.8	12
206	Evolutionary Underpinnings of Innate-Like T Cell Interactions with Cancer. Immunological Investigations, 2019, 48, 737-758.	1.0	6
207	Catalyst-free Click PEGylation reveals substantial mitochondrial ATP synthase sub-unit alpha oxidation before and after fertilisation. Redox Biology, 2019, 26, 101258.	3.9	12
208	Ecotoxicity of nanomaterials in amphibians: A critical review. Science of the Total Environment, 2019, 686, 332-344.	3.9	45
209	Latitudinal divergence in a widespread amphibian: Contrasting patterns of neutral and adaptive genomic variation. Molecular Ecology, 2019, 28, 2996-3011.	2.0	30
210	Reducing MSH4 copy number prevents meiotic crossovers between non-homologous chromosomes in Brassica napus. Nature Communications, 2019, 10, 2354.	5.8	58
211	Comparative Functional Analysis of the Basic Helix-Loop-Helix Proteins in the Clawed Frogs' Genomes With Common Essential Pathways and Enriched Gene Ontology Terms. American Journal of Biochemistry and Biotechnology, 2019, 15, 39-51.	0.1	1
212	Towards the new normal: Transcriptomic convergence and genomic legacy of the two subgenomes of an allopolyploid weed (Capsella bursa-pastoris). PLoS Genetics, 2019, 15, e1008131.	1.5	27
213	Morpholinos Do Not Elicit an Innate Immune Response during Early Xenopus Embryogenesis. Developmental Cell, 2019, 49, 643-650.e3.	3.1	12
214	Identification of a regeneration-organizing cell in the Xenopus tail. Science, 2019, 364, 653-658.	6.0	108
215	The voltage sensing phosphatase (VSP) localizes to the apical membrane of kidney tubule epithelial cells. PLoS ONE, 2019, 14, e0209056.	1.1	5
216	Barhl2 maintains T-cell factors as repressors, and thereby switches off the Wnt/Î²-Catenin response driving Spemann organizer formation. Development (Cambridge), 2019, 146, .	1.2	6
217	A comprehensive reference transcriptome resource for the Iberian ribbed newt Pleurodeles waltl, an emerging model for developmental and regeneration biology. DNA Research, 2019, 26, 217-229.	1.5	45
218	Skin Grafting in Xenopus laevis: A Technique for Assessing Development and Immunological Disparity. Cold Spring Harbor Protocols, 2019, 2019, pdb.prot099788.	0.2	2

#	Article	IF	Citations
219	Contaminant and Environmental Influences on Thyroid Hormone Action in Amphibian Metamorphosis. Frontiers in Endocrinology, 2019, 10, 276.	1.5	54
220	Generating a Three-Dimensional Genome from Xenopus with Hi-C. Cold Spring Harbor Protocols, 2019, 2019, pdb.prot098343.	0.2	1
221	Evolution of the Rho guanine nucleotide exchange factors Kalirin and Trio and their gene expression in Xenopus development. Gene Expression Patterns, 2019, 32, 18-27.	0.3	10
222	Etv6 activates vegfa expression through positive and negative transcriptional regulatory networks in Xenopus embryos. Nature Communications, 2019, 10, 1083.	5.8	12
223	Mechanical Force Induces Phosphorylation-Mediated Signaling that Underlies Tissue Response and Robustness in Xenopus Embryos. Cell Systems, 2019, 8, 226-241.e7.	2.9	18
224	A chromosome-scale genome assembly and dense genetic map for Xenopus tropicalis. Developmental Biology, 2019, 452, 8-20.	0.9	43
225	The First Transcriptome Assembly of Yenyuan Stream Salamander (Batrachuperus yenyuanensis) Provides Novel Insights into Its Molecular Evolution. International Journal of Molecular Sciences, 2019, 20, 1529.	1.8	7
226	Autophagy inXenopus laevisrod photoreceptors is independently regulated by phototransduction and misfolded RHO^{P23H}. Autophagy, 2019, 15, 1970-1989.	4.3	18
227	ECT2 associated to PRICKLE1 are poor-prognosis markers in triple-negative breast cancer. British Journal of Cancer, 2019, 120, 931-940.	2.9	13
228	Desmoplakin is required for epidermal integrity and morphogenesis in the Xenopus laevis embryo. Developmental Biology, 2019, 450, 115-131.	0.9	21
229	Comparative Principles for Next-Generation Neuroscience. Frontiers in Behavioral Neuroscience, 2019, 13, 12.	1.0	18
230	Generation of Xenopus Haploid, Triploid, and Hybrid Embryos. Methods in Molecular Biology, 2019, 1920, 303-315.	0.4	5
231	Spinal Cord Regeneration in Amphibians: A Historical Perspective. Developmental Neurobiology, 2019, 79, 437-452.	1.5	23
232	Culture and Host Transfer of Xenopus Oocytes for Maternal mRNA Depletion and Genome Editing Experiments. Methods in Molecular Biology, 2019, 1920, 1-16.	0.4	2
233	The Wnt inhibitor Dkk1 is required for maintaining the normal cardiac differentiation program in Xenopus laevis. Developmental Biology, 2019, 449, 1-13.	0.9	11
234	Rho Flares Repair Local Tight Junction Leaks. Developmental Cell, 2019, 48, 445-459.e5.	3.1	72
235	Xenopus laevis FGF16 activates the expression of genes coding for the transcription factors Sp5 and Sp5l. International Journal of Developmental Biology, 2019, 63, 631-639.	0.3	0
236	Transcriptome analysis of regeneration during Xenopus laevis experimental twinning. International Journal of Developmental Biology, 2019, 63, 301-309.	0.3	3

#	Article	IF	Citations
237	Distinct Hostâ€“Mycobacterial Pathogen Interactions between Resistant Adult and Tolerant Tadpole Life Stages of Xenopus laevis. Journal of Immunology, 2019, 203, 2679-2688.	0.4	13
238	Cell typeâ€specific transcriptome analysis unveils secreted signaling molecule genes expressed in apical epithelial cap during appendage regeneration. Development Growth and Differentiation, 2019, 61, 447-456.	0.6	9
239	Cell-free transcription in Xenopus egg extract. Journal of Biological Chemistry, 2019, 294, 19645-19654.	1.6	7
240	Avian Leptin: Birdâ€™s-Eye View of the Evolution of Vertebrate Energy-Balance Control. Trends in Endocrinology and Metabolism, 2019, 30, 819-832.	3.1	35
241	The TFF Peptides xP1 and xP4 Appear in Distinctive Forms in the Xenopus laevis Gastric Mucosa: Indications for Different Protective Functions. International Journal of Molecular Sciences, 2019, 20, 6052.	1.8	14
242	Genomic and transcriptomic insights into molecular basis of sexually dimorphic nuptial spines in Leptobrachium leishanense. Nature Communications, 2019, 10, 5551.	5.8	52
243	Goldfish: an old and new model system to study vertebrate development, evolution and human disease. Journal of Biochemistry, 2019, 165, 209-218.	0.9	37
244	Peroxiredoxin5 Controls Vertebrate Ciliogenesis by Modulating Mitochondrial Reactive Oxygen Species. Antioxidants and Redox Signaling, 2019, 30, 1731-1745.	2.5	13
245	Leukemia inhibitory factor signaling in Xenopus embryo: Insights from gain of function analysis and dominant negative mutant of the receptor. Developmental Biology, 2019, 447, 200-213.	0.9	4
246	<scp>CDK</scp> phosphorylation of Xenopus laevis M18 <scp>BP</scp> 1 promotes its metaphase centromere localization. EMBO Journal, 2019, 38, .	3.5	18
247	RefSeq curation and annotation of stop codon recoding in vertebrates. Nucleic Acids Research, 2019, 47, 594-606.	6.5	37
248	A Comparative Perspective on Brain Regeneration in Amphibians and Teleost Fish. Developmental Neurobiology, 2019, 79, 424-436.	1.5	30
249	A review of the role of parasites in the ecology of reptiles and amphibians. Austral Ecology, 2019, 44, 433-448.	0.7	47
250	Class A scavenger receptors mediate extracellular dsRNA sensing, leading to downstream antiviral gene expression in a novel American toad cell line, BufoTad. Developmental and Comparative Immunology, 2019, 92, 140-149.	1.0	16
251	Retinal Degeneration. Methods in Molecular Biology, 2019, , .	0.4	5
252	Comparisons of SOCS mRNA and protein levels in Xenopus provide insights into optic nerve regenerative success. Brain Research, 2019, 1704, 150-160.	1.1	3
253	Nucleotide receptor P2RY4 is required for head formation via induction and maintenance of head organizer in Xenopus laevis. Development Growth and Differentiation, 2019, 61, 186-197.	0.6	4
254	Evolutionary distribution of deoxynucleoside 5-monophosphate N-glycosidase, DNPH1. Gene, 2019, 683, 1-11.	1.0	3

#	Article	IF	Citations
255	Expression of the hormonal FGF coâ€receptor Klotho beta in the Xenopus laevis model. Cell Biology International, 2019, 43, 207-213.	1.4	0
256	Ion channels and signaling pathways used in the fast polyspermy block. Molecular Reproduction and Development, 2020, 87, 350-357.	1.0	21
257	Chromatin dynamics underlying the precise regeneration of a vertebrate limb â€“ Epigenetic regulation and cellular memory. Seminars in Cell and Developmental Biology, 2020, 97, 16-25.	2.3	8
258	Next-generation transcriptome assembly and analysis: Impact of ploidy. Methods, 2020, 176, 14-24.	1.9	20
259	Evolutionary History of GLIS Genes Illuminates Their Roles in Cell Reprograming and Ciliogenesis. Molecular Biology and Evolution, 2020, 37, 100-109.	3.5	8
260	Simple Method To Characterize the Ciliary Proteome of Multiciliated Cells. Journal of Proteome Research, 2020, 19, 391-400.	1.8	11
261	Phylogenomics Identifies an Ancestral Burst of Gene Duplications Predating the Diversification of Aphidomorpha. Molecular Biology and Evolution, 2020, 37, 730-756.	3.5	29
262	Developmental Systems Drift and the Drivers of Sex Chromosome Evolution. Molecular Biology and Evolution, 2020, 37, 799-810.	3.5	25
263	Generation, Coordination, and Evolution of Neural Circuits for Vocal Communication. Journal of Neuroscience, 2020, 40, 22-36.	1.7	33
264	miR â€199 plays both positive and negative regulatory roles in Xenopus eye development. Genesis, 2020, 58, e23354.	0.8	2
265	Modeling ocular lens disease in Xenopus. Developmental Dynamics, 2020, 249, 610-621.	0.8	12
266	Heparan sulfate proteoglycans regulate BMP signalling during neural crest induction. Developmental Biology, 2020, 460, 108-114.	0.9	12
267	Genome reconstruction and haplotype phasing using chromosome conformation capture methodologies. Briefings in Functional Genomics, 2020, 19, 139-150.	1.3	10
268	Serotonin and MucXS release by small secretory cells depend on Xpod , a SSC specific marker gene. Genesis, 2020, 58, e23344.	0.8	5
269	Parallel Evolution of Two dmrt1-Derived Genes, dmy and dm-W, for Vertebrate Sex Determination. IScience, 2020, 23, 100757.	1.9	11
270	Xenopus: Experimental Access to Cardiovascular Development, Regeneration Discovery, and Cardiovascular Heart-Defect Modeling. Cold Spring Harbor Perspectives in Biology, 2020, 12, a037200.	2.3	9
271	Insights regarding skin regeneration in non-amniote vertebrates: Skin regeneration without scar formation and potential step-up to a higher level of regeneration. Seminars in Cell and Developmental Biology, 2020, 100, 109-121.	2.3	18
272	Role of TrkA signaling during tadpole tail regeneration and early embryonic development in Xenopus laevis. Genes To Cells, 2020, 25, 86-99.	0.5	2

#	Article	IF	Citations
273	Bioinformatic methods applied to the analysis of the genes retained after the whole genome duplication events in the sterlet genome (Acipenser ruthenus). , 2020, , .		0
274	The regulation of skin pigmentation in response to environmental light by pineal Type II opsins and skin melanophore melatonin receptors. Journal of Photochemistry and Photobiology B: Biology, 2020, 212, 112024.	1.7	13
275	Evolutionary Dynamics of the Repetitive DNA in the Karyotypes of Pipa carvalhoi and Xenopus tropicalis (Anura, Pipidae). Frontiers in Genetics, 2020, 11, 637.	1.1	7
276	Reconstruction of the Carbohydrate 6-O Sulfotransferase Gene Family Evolution in Vertebrates Reveals Novel Member, CHST16, Lost in Amniotes. Genome Biology and Evolution, 2020, 12, 993-1012.	1.1	4
277	Genome Evolution: Domestication of the Allopolyploid Goldfish. Current Biology, 2020, 30, R812-R815.	1.8	5
278	The Mechanism of Î²2m Molecule-Induced Changes in the Peptide Presentation Profile in a Bony Fish. IScience, 2020, 23, 101119.	1.9	13
279	Genomic databases. , 2020, , 47-62.		2
280	Thyroid hormone-induced expression of Foxl1 in subepithelial fibroblasts correlates with adult stem cell development during Xenopus intestinal remodeling. Scientific Reports, 2020, 10, 20715.	1.6	6
281	Cell culture-based karyotyping of orectolobiform sharks for chromosome-scale genome analysis. Communications Biology, 2020, 3, 652.	2.0	23
282	Dact-4 is a Xenopus laevis Spemann organizer gene related to the Dapper/Frodo antagonist of Î²-catenin family of proteins. Gene Expression Patterns, 2020, 38, 119153.	0.3	4
283	Gradual polyploid genome evolution revealed by pan-genomic analysis of Brachypodium hybridum and its diploid progenitors. Nature Communications, 2020, 11, 3670.	5.8	67
284	Polyploidization and pseudogenization in allotetraploid frog Xenopus laevis promote the evolution of aquaporin family in higher vertebrates. BMC Genomics, 2020, 21, 525.	1.2	4
285	Comparative gene expression profiling between optic nerve and spinal cord injury in Xenopus laevis reveals a core set of genes inherent in successful regeneration of vertebrate central nervous system axons. BMC Genomics, 2020, 21, 540.	1.2	11
286	Heterogeneity of synonymous substitution rates in the Xenopus frog genome. PLoS ONE, 2020, 15, e0236515.	1.1	1
287	Blood-Brain Barrier Protein Claudin-5 Expressed in Paired Xenopus laevis Oocytes Mediates Cell-Cell Interaction. Frontiers in Physiology, 2020, 11, 857.	1.3	9
288	Instability of Sex-Determining Systems in Frogs. , 2020, , .		0
289	Defective heart chamber growth and myofibrillogenesis after knockout of adprhl1 gene function by targeted disruption of the ancestral catalytic active site. PLoS ONE, 2020, 15, e0235433.	1.1	8
290	Injected cells provide a valuable complement to cell-free systems for analysis of gene expression. Experimental Cell Research, 2020, 396, 112296.	1.2	0

#	Article	IF	Citations
291	Genome biology of the paleotetraploid perennial biomass crop Miscanthus. Nature Communications, 2020, 11, 5442.	5.8	67
292	A Glimpse of the Peptide Profile Presentation by Xenopus laevis MHC Class I: Crystal Structure of pXela-UAA Reveals a Distinct Peptide-Binding Groove. Journal of Immunology, 2020, 204, 147-158.	0.4	20
293	Evolution of the endothelin pathway drove neural crest cell diversification. Nature, 2020, 585, 563-568.	13.7	30
294	Analysis of muntjac deer genome and chromatin architecture reveals rapid karyotype evolution. Communications Biology, 2020, 3, 480.	2.0	31
295	Xenopus gpx3 Mediates Posterior Development by Regulating Cell Death during Embryogenesis. Antioxidants, 2020, 9, 1265.	2.2	6
296	An aryl hydrocarbon receptor from the caecilian Gymnopis multiplicata suggests low dioxin affinity in the ancestor of all three amphibian orders. General and Comparative Endocrinology, 2020, 299, 113592.	0.8	3
297	Evolution of MicroRNA Biogenesis Genes in the Sterlet (Acipenser ruthenus) and Other Polyploid Vertebrates. International Journal of Molecular Sciences, 2020, 21, 9562.	1.8	2
298	A systematic, label-free method for identifying RNA-associated proteins in vivo provides insights into vertebrate ciliary beating machinery. Developmental Biology, 2020, 467, 108-117.	0.9	22
299	The Genetic Basis of Morphological Diversity in Domesticated Goldfish. Current Biology, 2020, 30, 2260-2274.e6.	1.8	52
300	Polyploidy breaks speciation barriers in Australian burrowing frogs Neobatrachus. PLoS Genetics, 2020, 16, e1008769.	1.5	40
301	Enhancer evolution in chordates: Lessons from functional analyses of cephalochordate cisâ€regulatory modules. Development Growth and Differentiation, 2020, 62, 279-300.	0.6	4
302	From asymmetrical to balanced genomic diversification during rediploidization: Subgenomic evolution in allotetraploid fish. Science Advances, 2020, 6, eaaz7677.	4.7	59
303	State-of-the-Art Technology of Model Organisms for Current Human Medicine. Diagnostics, 2020, 10, 392.	1.3	10
304	The transcription factor Hypermethylated in Cancer 1 (Hic1) regulates neural crest migration via interaction with Wnt signaling. Developmental Biology, 2020, 463, 169-181.	0.9	6
305	Integrative Omics Analysis Reveals a Limited Transcriptional Shock After Yeast Interspecies Hybridization. Frontiers in Genetics, 2020, 11, 404.	1.1	22
306	Reversible Thiol Oxidation Inhibits the Mitochondrial ATP Synthase in Xenopus laevis Oocytes. Antioxidants, 2020, 9, 215.	2.2	9
307	Model systems for regeneration: Xenopus. Development (Cambridge), 2020, 147, .	1.2	39
308	Mcl1 protein levels and Caspaseâ€7 executioner protease control axial organizer cells survival. Developmental Dynamics, 2020, 249, 847-866.	0.8	1

#	Article	IF	Citations
309	Chromatin accessibility and histone acetylation in the regulation of competence in early development. Developmental Biology, 2020, 462, 20-35.	0.9	29
310	From Neural Tube Formation Through the Differentiation of Spinal Cord Neurons: Ion Channels in Action During Neural Development. Frontiers in Molecular Neuroscience, 2020, 13, 62.	1.4	11
311	Experimental Platform Using the Amphibian Xenopus laevis for Research in Fundamental and Medical Immunology. Cold Spring Harbor Protocols, 2020, 2020, pdb.top106625.	0.2	5
312	Translational Control of Xenopus Oocyte Meiosis: Toward the Genomic Era. Cells, 2020, 9, 1502.	1.8	21
313	Molecular basis of junctional current rectification at an electrical synapse. Science Advances, 2020, 6, eabb3076.	4.7	12
314	A comparative analysis of fibroblast growth factor receptor signalling during Xenopus development. Biology of the Cell, 2020, 112, 127-139.	0.7	4
315	Endoplasmic reticulum transmembrane protein TMTC3 contributes to O-mannosylation of E-cadherin, cellular adherence, and embryonic gastrulation. Molecular Biology of the Cell, 2020, 31, 167-183.	0.9	21
316	Regeneration enhancers: A clue to reactivation of developmental genes. Development Growth and Differentiation, 2020, 62, 343-354.	0.6	20
317	Toward the understanding of biology of oocyte life cycle in Xenopus Laevis: No oocytes left behind. Reproductive Medicine and Biology, 2020, 19, 114-119.	1.0	8
318	The importance and prevalence of allopolyploidy in Aotearoa New Zealand. Journal of the Royal Society of New Zealand, 2020, 50, 189-210.	1.0	5
319	The Rhinella arenarum transcriptome: de novo assembly, annotation and gene prediction. Scientific Reports, 2020, 10, 1053.	1.6	11
320	Dynamic Evolution of the Cthrc1 Genes, a Newly Defined Collagen-Like Family. Genome Biology and Evolution, 2020, 12, 3957-3970.	1.1	12
321	Genome and Karyotype Reorganization after Whole Genome Duplication in Free-Living Flatworms of the Genus Macrostomum. International Journal of Molecular Sciences, 2020, 21, 680.	1.8	14
322	HMGA Genes and Proteins in Development and Evolution. International Journal of Molecular Sciences, 2020, 21, 654.	1.8	51
323	Snake Recombination Landscapes Are Concentrated in Functional Regions despite PRDM9. Molecular Biology and Evolution, 2020, 37, 1272-1294.	3.5	45
324	The sterlet sturgeon genome sequence and the mechanisms of segmental rediploidization. Nature Ecology and Evolution, 2020, 4, 841-852.	3.4	159
325	The transcriptome of the newt Cynops orientalis provides new insights into evolution and function of sexual gene networks in sarcopterygians. Scientific Reports, 2020, 10, 5445.	1.6	11
326	Immunological Techniques to Assess Protein Thiol Redox State: Opportunities, Challenges and Solutions. Antioxidants, 2020, 9, 315.	2.2	19

#	Article	IF	Citations
327	The power of amphibians to elucidate mechanisms of size control and scaling. Experimental Cell Research, 2020, 392, 112036.	1.2	13
328	Genomics Methods for Xenopus Embryos and Tissues. Cold Spring Harbor Protocols, 2020, 2020, pdb.top097915.	0.2	2
329	Natural size variation among embryos leads to the corresponding scaling in gene expression. Developmental Biology, 2020, 462, 165-179.	0.9	10
330	Deeply conserved synteny resolves early events in vertebrate evolution. Nature Ecology and Evolution, 2020, 4, 820-830.	3.4	250
331	Regain of sex determination system and sexual reproduction ability in a synthetic octoploid male fish. Science China Life Sciences, 2021, 64, 77-87.	2.3	36
332	The rise and fall of globins in the amphibia. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2021, 37, 100759.	0.4	4
333	A generalized framework for AMOVA with multiple hierarchies and ploidies. Integrative Zoology, 2021, 16, 33-52.	1.3	9
334	Small-scale population divergence is driven by local larval environment in a temperate amphibian. Heredity, 2021, 126, 279-292.	1.2	3
335	Chromosomeâ€level genome assembly of Lethenteron reissneri provides insights into lamprey evolution. Molecular Ecology Resources, 2021, 21, 448-463.	2.2	25
336	The repertoire of vertebrate STAT transcription factors: Origin and variations in fish. Developmental and Comparative Immunology, 2021, 116, 103929.	1.0	11
337	Optimized design of antisense oligomers for targeted rRNA depletion. Nucleic Acids Research, 2021, 49, e5-e5.	6.5	11
338	The ubiquitin ligase RFWD3 is required for translesion DNA synthesis. Molecular Cell, 2021, 81, 442-458.e9.	4.5	43
339	Periodic albinism of a widely used albino mutant of Xenopus laevis caused by deletion of two exons in the Hermanskyâ€“Pudlak syndrome type 4 gene. Genes To Cells, 2021, 26, 31-39.	0.5	5
340	Goldfish as an Experimental Model. , 2021, , 17-44.		0
341	Genomic mechanisms of climate adaptation in polyploid bioenergy switchgrass. Nature, 2021, 590, 438-444.	13.7	144
342	Contrasting Patterns of Gene Duplication, Relocation, and Selection Among Human Taste Genes. Evolutionary Bioinformatics, 2021, 17, 117693432110351.	0.6	2
343	High-continuity genome assembly of the jellyfish Chrysaora quinquecirrha. Zoological Research, 2021, 42, 130-134.	0.9	4
344	A temporally resolved transcriptome for developing â€œKellerâ€•explants of the Xenopus laevis dorsal marginal zone. Developmental Dynamics, 2021, 250, 717-731.	0.8	5

#	Article	IF	Citations
345	Control of zygotic genome activation in Xenopus. Current Topics in Developmental Biology, 2021, 145, 167-204.	1.0	12
346	Modeling endoderm development and disease in Xenopus. Current Topics in Developmental Biology, 2021, 145, 61-90.	1.0	3
347	Cell Adhesions Link Subcellular Actomyosin Dynamics to Tissue Scale Force Production During Vertebrate Convergent Extension. SSRN Electronic Journal, 0, , .	0.4	0
348	Endocrine modulation of acoustic communication: Xenopus laevis as a model system. , 2021, , 81-100.		0
349	Insights from a vertebrate model organism on the molecular mechanisms of whole-body dehydration tolerance. Molecular and Cellular Biochemistry, 2021, 476, 2381-2392.	1.4	1
350	Connexins during 500 Million Yearsâ€"From Cyclostomes to Mammals. International Journal of Molecular Sciences, 2021, 22, 1584.	1.8	8
351	New Species Can Broaden Myelin Research: Suitability of Little Skate, Leucoraja erinacea. Life, 2021, 11, 136.	1.1	1
353	Xenopus, a Model to Study Wound Healing and Regeneration: Experimental Approaches. Cold Spring Harbor Protocols, 2021, 2021, pdb.top100966.	0.2	6
354	Low-temperature incubation improves both knock-in and knock-down efficiencies by the CRISPR/Cas9 system in Xenopus laevis as revealed by quantitative analysis. Biochemical and Biophysical Research Communications, 2021, 543, 50-55.	1.0	11
355	Analysis of shark NCR3 family genes reveals primordial features of vertebrate NKp30. Immunogenetics, 2021, 73, 333-348.	1.2	5
356	Chromosomeâ€level genome of Poropuntius huangchuchieni provides a diploid progenitorâ€like reference genome for the allotetraploid Cyprinus carpio. Molecular Ecology Resources, 2021, 21, 1658-1669.	2.2	13
357	Comparative genomics of Glandirana rugosa using unsupervised AI reveals a high CG frequency. Life Science Alliance, 2021, 4, e202000905.	1.3	8
358	Research-Relevant Background Lesions and Conditions in Common Avian and Aquatic Species. ILAR Journal, 2021, 62, 169-202.	1.8	3
361	The giant axolotl genome uncovers the evolution, scaling, and transcriptional control of complex gene loci. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	66
362	A GC-MS/Single-Cell Method to Evaluate Membrane Transporter Substrate Specificity and Signaling. Frontiers in Molecular Biosciences, 2021, 8, 646574.	1.6	19
363	Identification and characterization of centromeric sequences in Xenopus laevis. Genome Research, 2021, 31, 958-967.	2.4	12
364	Quantitative analyses reveal extracellular dynamics of Wnt ligands in Xenopus embryos. ELife, 2021, 10, .	2.8	14
365	Testis Development and Differentiation in Amphibians. Genes, 2021, 12, 578.	1.0	12

#	Article	IF	Citations
366	Comparative Distribution of Repetitive Sequences in the Karyotypes of Xenopus tropicalis and Xenopus laevis (Anura, Pipidae). Genes, 2021, 12, 617.	1.0	6
369	Differences of Extracellular Cues and Ca2+ Permeable Channels in the Signaling Pathways for Inducing Amphibian Sperm Motility. Zoological Science, 2021, 38, 343-351.	0.3	3
372	3D genomics across the tree of life reveals condensin II as a determinant of architecture type. Science, 2021, 372, 984-989.	6.0	132
373	The cytokine FAM3B/PANDER is an FGFR ligand that promotes posterior development in Xenopus. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	5
374	Functional-genomic analysis reveals intraspecies diversification of antiviral receptor transporter proteins in Xenopus laevis. PLoS Genetics, 2021, 17, e1009578.	1.5	2
375	Functional characterization of two 20Î²-hydroxysteroid dehydrogenase type 2 homeologs from Xenopus laevis reveals multispecificity. Journal of Steroid Biochemistry and Molecular Biology, 2021, 210, 105874.	1.2	0
377	Smad2 and Smad3 differentially modulate chordin transcription via direct binding on the distal elements in gastrula Xenopus embryos. Biochemical and Biophysical Research Communications, 2021, 559, 168-175.	1.0	11
378	The tweety Gene Family: From Embryo to Disease. Frontiers in Molecular Neuroscience, 2021, 14, 672511.	1.4	12
379	Application of Recombinant Rabies Virus toXenopusTadpole Brain. ENeuro, 2021, 8, ENEURO.0477-20.2021.	0.9	6
380	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
381	Differential effects of the formin inhibitor SMIFH2 on contractility and Ca²⁺ handling in frog and mouse cardiomyocytes. Genes To Cells, 2021, 26, 583-595.	0.5	2
382	Gynogenetic diploids, tetraploids, or octoploids, and a path to polyploidy in anuran amphibians. Genome, 2021, 64, 1-13.	0.9	2
383	The gastrin-releasing peptide/bombesin system revisited by a reverse-evolutionary study considering Xenopus. Scientific Reports, 2021, 11, 13315.	1.6	8
384	Targeted Transcriptomics of Frog Virus 3 in Infected Frog Tissues Reveal Non-Coding Regulatory Elements and microRNAs in the Ranaviral Genome and Their Potential Interaction with Host Immune Response. Frontiers in Immunology, 2021, 12, 705253.	2.2	5
385	Independent pseudogenizations and losses of sox15 during amniote diversification following asymmetric ohnolog evolution. Bmc Ecology and Evolution, 2021, 21, 134.	0.7	0
386	Anaplastic lymphoma kinase (alk), a neuroblastoma associated gene, is expressed in neural crest domains during embryonic development of Xenopus. Gene Expression Patterns, 2021, 40, 119183.	0.3	5
387	Patterns and Processes of Diploidization in Land Plants. Annual Review of Plant Biology, 2021, 72, 387-410.	8.6	76
388	Stage-dependent sequential organization of nascent smooth muscle cells and its implications for the gut coiling morphogenesis in Xenopus larva. Zoology, 2021, 146, 125905.	0.6	1

#	Article	IF	Citations
389	A 180 Myr-old female-specific genome region in sturgeon reveals the oldest known vertebrate sex determining system with undifferentiated sex chromosomes. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200089.	1.8	41
390	Sex chromosome degeneration, turnover, and sex-biased expression of sex-linked transcripts in African clawed frogs (Xenopus). Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200095.	1.8	8
391	A novel class III endogenous retrovirus with a class I envelope gene in African frogs with an intact genome and developmentally regulated transcripts in Xenopus tropicalis. Retrovirology, 2021, 18, 20.	0.9	4
392	Temporal transcriptomic profiling reveals dynamic changes in gene expression of Xenopus animal cap upon activin treatment. Scientific Reports, 2021, 11, 14537.	1.6	3
393	Rab7 is required for mesoderm patterning and gastrulation in Xenopus. Biology Open, 2021, 10, .	0.6	1
394	Evolution of hes gene family in vertebrates: the hes5 cluster genes have specifically increased in frogs. Bmc Ecology and Evolution, 2021, 21, 147.	0.7	3
395	Reconstruction of proto-vertebrate, proto-cyclostome and proto-gnathostome genomes provides new insights into early vertebrate evolution. Nature Communications, 2021, 12, 4489.	5.8	88
396	Sex chromosomes in meiotic, hemiclonal, clonal and polyploid hybrid vertebrates: along the â€˜extended speciation continuum'. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200103.	1.8	38
397	Seeing Keratinocyte Proteins through the Looking Glass of Intrinsic Disorder. International Journal of Molecular Sciences, 2021, 22, 7912.	1.8	8
398	Interaction between sex-determining genes from two species: clues fromXenopushybrids. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200104.	1.8	3
399	Conserved role of the urotensin II receptor 4 signalling pathway to control body straightness in a tetrapod. Open Biology, 2021, 11, 210065.	1.5	9
400	The DNA-to-cytoplasm ratio broadly activates zygotic gene expression in Xenopus. Current Biology, 2021, 31, 4269-4281.e8.	1.8	12
403	ExOrthist: a tool to infer exon orthologies at any evolutionary distance. Genome Biology, 2021, 22, 239.	3.8	11
405	Why Do Some Vertebrates Have Microchromosomes?. Cells, 2021, 10, 2182.	1.8	26
406	Functional Roles of FGF Signaling in Early Development of Vertebrate Embryos. Cells, 2021, 10, 2148.	1.8	17
407	Mechanism and function of DNA replicationâ€independent DNAâ€protein crosslink repair via the SUMOâ€RNF4 pathway. EMBO Journal, 2021, 40, e107413.	3.5	32
408	A convergent molecular network underlying autism and congenital heart disease. Cell Systems, 2021, 12, 1094-1107.e6.	2.9	19
409	Whole-Genome Duplications and the Diversification of the Globin-X Genes of Vertebrates. Genome Biology and Evolution, 2021, 13, .	1.1	5

#	Article	IF	Citations
410	Ttc30a affects tubulin modifications in a model for ciliary chondrodysplasia with polycystic kidney disease. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	6
411	The conserved fertility factor SPACA4/Bouncer has divergent modes of action in vertebrate fertilization. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	27
412	Birth and death of CYLD paralogues in vertebrates. Gene Reports, 2021, 24, 101190.	0.4	0
413	Mechanics of neural tube morphogenesis. Seminars in Cell and Developmental Biology, 2022, 130, 56-69.	2.3	8
414	Distinct type II opsins in the eye decode light properties for background adaptation and behavioural background preference. Molecular Ecology, 2021, 30, 6659-6676.	2.0	7
416	Evolution of aldehyde dehydrogenase genes and proteins in diploid and allotetraploid Xenopus frog species. Chemico-Biological Interactions, 2022, 351, 109671.	1.7	2
417	Parallel subgenome structure and divergent expression evolution of allo-tetraploid common carp and goldfish. Nature Genetics, 2021, 53, 1493-1503.	9.4	52
419	Xenopus epidermal and endodermal epithelia as models for mucociliary epithelial evolution, disease, and metaplasia. Genesis, 2021, 59, e23406.	0.8	9
420	Transitions in the Proteome and Phospho-Proteome During <i>Xenopus laevis</i> Development. SSRN Electronic Journal, 0, , .	0.4	1
421	Ectoderm to mesoderm transition by down-regulation of actomyosin contractility. PLoS Biology, 2021, 19, e3001060.	2.6	14
422	Mass spectrometry based proteomics for developmental neurobiology in the amphibian Xenopus laevis. Current Topics in Developmental Biology, 2021, 145, 205-231.	1.0	4
423	Neural tube closure requires the endocytic receptor Lrp2 and its functional interaction with intracellular scaffolds. Development (Cambridge), 2021, 148, .	1.2	24
424	Xenopus leads the way: Frogs as a pioneering model to understand the human brain. Genesis, 2021, 59, e23405.	0.8	28
425	Generation and Analysis of Xenopus laevis Models of Retinal Degeneration Using CRISPR/Cas9. Methods in Molecular Biology, 2019, 1834, 193-207.	0.4	8
426	Developmental Expression of Ectonucleotidase and Purinergic Receptors Detection by Whole-Mount In Situ Hybridization in Xenopus Embryos. Methods in Molecular Biology, 2020, 2041, 87-106.	0.4	2
427	Evolution of Excitation-Contraction Coupling. Advances in Experimental Medicine and Biology, 2020, 1131, 281-320.	0.8	13
428	Early Xenopus gene regulatory programs, chromatin states, and the role of maternal transcription factors. Current Topics in Developmental Biology, 2020, 139, 35-60.	1.0	8
429	The evolutionary origin and domestication history of goldfish (Carassius auratus). Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 29775-29785.	3.3	47

#	Article	IF	Citations
430	Dynamic expression of MMP28 during cranial morphogenesis. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190559.	1.8	4
456	Distinct roles for prominin-1 and photoreceptor cadherin in outer segment disc morphogenesis in CRISPR-altered X. laevis. Journal of Cell Science, 2021, 134, .	1.2	8
457	The elephant shark methylome reveals conservation of epigenetic regulation across jawed vertebrates. F1000Research, 2017, 6, 526.	0.8	22
458	Recent advances in understanding the roles of whole genome duplications in evolution. F1000Research, 2017, 6, 1623.	0.8	19
459	Membrane progesterone receptor induces meiosis in Xenopus oocytes through endocytosis into signaling endosomes and interaction with APPL1 and Akt2. PLoS Biology, 2020, 18, e3000901.	2.6	14
460	Hybridization and polyploidy enable genomic plasticity without sex in the most devastating plant-parasitic nematodes. PLoS Genetics, 2017, 13, e1006777.	1.5	150
461	Ventx1.1 as a Direct Repressor of Early Neural Gene in. Molecules and Cells, 2018, 41, 1061-1071.	1.0	8
462	Elucidating nuclear size control in the Xenopus model system. Veterinarski Glasnik, 2018, 72, 1-13.	0.1	5
463	HCN2 Channel-Induced Rescue of Brain Teratogenesis via Local and Long-Range Bioelectric Repair. Frontiers in Cellular Neuroscience, 2020, 14, 136.	1.8	32
464	Temporal Profile of Brain Gene Expression After Prey Catching Conditioning in an Anuran Amphibian. Frontiers in Neuroscience, 2019, 13, 1407.	1.4	3
465	Subcellular Localization of the TFF Peptides xP1 and xP4 in the Xenopus laevis Gastric/Esophageal Mucosa: Different Secretion Modes Reflecting Diverse Protective Functions. International Journal of Molecular Sciences, 2020, 21, 761.	1.8	6
466	Cost-Effective Discovery of Nucleotide Polymorphisms in Populations of an Allopolyploid Species Using Pool-Seq. American Journal of Molecular Biology, 2017, 07, 1031-1046.	0.1	2
467	A draft genome assembly of the eastern banjo frog Limnodynastes dumerilii dumerilii (Anura:ALimnodynastidae). GigaByte, 0, 2020, 1-13.	0.0	8
469	A liquid-like organelle at the root of motile ciliopathy. ELife, 2018, 7, .	2.8	55
470	Anillin regulates epithelial cell mechanics by structuring the medial-apical actomyosin network. ELife, 2019, 8, .	2.8	35
471	Functional partitioning of a liquid-like organelle during assembly of axonemal dyneins. ELife, 2020, 9, .	2.8	37
472	A practical guide to buildde-novoassemblies for single tissues of non-model organisms: the example of a Neotropical frog. PeerJ, 2017, 5, e3702.	0.9	16
473	Analysis of the early response to spinal cord injury identified a key role for mTORC1 signaling in the activation of neural stem progenitor cells. Npj Regenerative Medicine, 2021, 6, 68.	2.5	4

#	Article	IF	Citations
474	Pharmacological modulation of the cAMP signaling of two isoforms of melanocortin-3 receptor by melanocortin receptor accessory proteins in the tetrapod Xenopus laevis. Endocrine Connections, 2021, 10, 1477-1488.	0.8	5
476	Galloway-Mowat syndrome: New insights from bioinformatics and expression during Xenopus embryogenesis. Gene Expression Patterns, 2021, 42, 119215.	0.3	4
478	The 100%-Complete Nuclear and Organellar Genome Sequences of the Ultrasmall Red Algal Species Cyanidioschyzon merolae 10D. , 2017, , 61-72.		0
483	Brg1 chromatin remodeling ATPase balances germ layer patterning by amplifying the transcriptional burst at midblastula transition. PLoS Genetics, 2017, 13, e1006757.	1.5	3
486	The Most Primitive Extant Ancestor of Organisms and Discovery of Definitive Evolutionary Equations Based on Complete Genome Structures. Natural Science, 2018, 10, 338-369.	0.2	1
493	Transcriptome of Xenopus andrei, an octoploid frog, during embryonic development. Data in Brief, 2018, 19, 501-505.	0.5	1
500	Lysine demethylase 3a in craniofacial and neural development during Xenopus embryogenesis. International Journal of Molecular Medicine, 2019, 43, 1105-1113.	1.8	3
505	Development of an in vitro diagnostic method to determine the genotypic sex of Xenopus laevis. PeerJ, 2019, 7, e6886.	0.9	2
518	JNK Mediates Differentiation, Cell Polarity and Apoptosis During Amphioxus Development by Regulating Actin Cytoskeleton Dynamics and ERK Signalling. Frontiers in Cell and Developmental Biology, 2021, 9, 749806.	1.8	5
519	Axial Skeletal Malformations in Genetically Modified Xenopus laevis and Xenopus tropicalis. Comparative Medicine, 2020, 70, 532-541.	0.4	1
520	Deciphering reticulate evolution of the largest group of polyploid vertebrates, the subfamily cyprininae (Teleostei: Cypriniformes). Molecular Phylogenetics and Evolution, 2022, 166, 107323.	1.2	12
521	Perspectives on studying molecular adaptations of amphibians in the genomic era. Zoological Research, 2020, 41, 351-364.	0.9	13
525	Retinoic Acid Fluctuation Activates an Uneven, Direction-Dependent Network-Wide Robustness Response in Early Embryogenesis. Frontiers in Cell and Developmental Biology, 2021, 9, 747969.	1.8	7
527	The nucleoporin Nup50 activates the Ran guanine nucleotide exchange factor RCC1 to promote NPC assembly at the end of mitosis. EMBO Journal, 2021, 40, e108788.	3.5	10
533	Neurophysiological and Behavioral Analysis in Xenopus. Cold Spring Harbor Protocols, 2021, 2021, pdb.top106849.	0.2	0
534	T-Cell Factors as Transcriptional Inhibitors: Activities and Regulations in Vertebrate Head Development. Frontiers in Cell and Developmental Biology, 2021, 9, 784998.	1.8	2
535	A chromosomal level genome sequence for Quasipaa spinosa (Dicroglossidae) reveals chromosomal evolution and population diversity. Molecular Ecology Resources, 2022, 22, 1545-1558.	2.2	3
536	Temporal and spatial transcriptomic dynamics across brain development in Xenopus laevis tadpoles. G3: Genes, Genomes, Genetics, 2022, 12, .	0.8	7

#	Article	IF	Citations
537	Evolutionary dynamics of DIRS-like and Ngaro-like retrotransposons in Xenopus laevis and Xenopus tropicalis genomes. G3: Genes, Genomes, Genetics, 2022, 12, .	0.8	0
538	Chromatin spatial organization of wild type and mutant peanuts reveals high-resolution genomic architecture and interaction alterations. Genome Biology, 2021, 22, 315.	3.8	13
539	Application of the RNA interference technique to Xenopus embryos: Specific reduction of the Î²â€catenin gene products by short doubleâ€stranded RNA produced by recombinant human Dicer. Development Growth and Differentiation, 2021, 63, 467.	0.6	1
540	Research advances and future perspectives of genomics and genetic improvement in allotetraploid common carp. Reviews in Aquaculture, 2022, 14, 957-978.	4.6	23
542	Toxic effects of SiO2NPs in early embryogenesis of Xenopus laevis. Chemosphere, 2022, 289, 133233.	4.2	9
543	Currents in Cytogeneticsâ€"Faster, Wider, Finer, and Creation: Old but New Technology for Genome Visualization. Kagaku To Seibutsu, 2020, 58, 606-613.	0.0	0
544	Enhanced Loss of Retinoic Acid Network Genes in Xenopus laevis Achieves a Tighter Signal Regulation. Cells, 2022, 11, 327.	1.8	1
545	Type II Opsins in the Eye, the Pineal Complex and the Skin of Xenopus laevis: Using Changes in Skin Pigmentation as a Readout of Visual and Circadian Activity. Frontiers in Neuroanatomy, 2021, 15, 784478.	0.9	1
547	Activation of DNA Transposons and Evolution of piRNA Genes Through Interspecific Hybridization in Xenopus Frogs. Frontiers in Genetics, 2022, 13, 766424.	1.1	3
548	Gene Structure Analysis of Chemokines and Their Receptors in Allotetraploid Frog, Xenopus laevis. Frontiers in Genetics, 2021, 12, 787979.	1.1	2
549	Cancer Genomic Rearrangements and Copy Number Alterations from Errors in Cell Division. Annual Review of Cancer Biology, 2022, 6, 245-268.	2.3	10
550	The Serotonin System in Mammalian Oogenesis. Neuroscience and Behavioral Physiology, 2022, 52, 52-61.	0.2	0
552	Developmental and Injury-induced Changes in DNA Methylation in Regenerative versus Non-regenerative Regions of the Vertebrate Central Nervous System. BMC Genomics, 2022, 23, 2.	1.2	8
555	Evidence of requirement for homologousâ€mediated <scp>DNA</scp> repair during Ambystoma mexicanum limb regeneration. Developmental Dynamics, 2022, 251, 1035-1053.	0.8	4
556	Targeted search for scaling genes reveals matrix metalloproteinase 3 as a scaler of the dorsal-ventral pattern in Xenopus laevis embryos. Developmental Cell, 2022, 57, 95-111.e12.	3.1	6
557	In vitro cell cycle oscillations exhibit a robust and hysteretic response to changes in cytoplasmic density. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	9
558	Molecular evolution of hatching enzymes and their paralogous genes in vertebrates. Bmc Ecology and Evolution, 2022, 22, 9.	0.7	4
559	A genomic survey of LINE elements in Pipidae aquatic frogs shed light on Rex-elements evolution in these genomes. Molecular Phylogenetics and Evolution, 2022, 168, 107393.	1.2	2

#	Article	IF	Citations
560	Duplication and subsequent functional diversification of aquaporin family in Pacific abalone Haliotis discus hannai. Molecular Phylogenetics and Evolution, 2022, 168, 107392.	1.2	4
561	Evolutionary analyses of visual opsin genes in frogs and toads: Diversity, duplication, and positive selection. Ecology and Evolution, 2022, 12, e8595.	0.8	9
562	PCD Genesâ€"From Patients to Model Organisms and Back to Humans. International Journal of Molecular Sciences, 2022, 23, 1749.	1.8	9
564	Tissue-Targeted CRISPRâ€“Cas9-Mediated Genome Editing of Multiple Homeologs in F₀-Generation Xenopus laevis Embryos. Cold Spring Harbor Protocols, 2022, 2022, pdb.prot107037.	0.2	6
565	Molecular Conflicts Disrupting Centromere Assembly Contribute to <i>Xenopus</i> Hybrid Inviability. SSRN Electronic Journal, 0, , .	0.4	0
566	Essential roles of YAP-TEAD complex in adult stem cell development during thyroid hormone-induced intestinal remodeling of Xenopus laevis. Cell and Tissue Research, 2022, 388, 313-329.	1.5	1
567	Manipulating the microbiome alters regenerative outcomes in Xenopus laevis tadpoles via lipopolysaccharide signalling. Wound Repair and Regeneration, 2022, 30, 636-651.	1.5	3
568	The Ribosomal Protein L5 Functions During Xenopus Anterior Development Through Apoptotic Pathways. Frontiers in Cell and Developmental Biology, 2022, 10, 777121.	1.8	2
571	From Water to Land: The Structural Construction and Molecular Switches in Lungs during Metamorphosis of Microhyla fissipes. Biology, 2022, 11, 528.	1.3	3
572	Ventx Family and Its Functional Similarities with Nanog: Involvement in Embryonic Development and Cancer Progression. International Journal of Molecular Sciences, 2022, 23, 2741.	1.8	6
573	A population-level statistic for assessing Mendelian behavior of genotyping-by-sequencing data from highly duplicated genomes. BMC Bioinformatics, 2022, 23, 101.	1.2	5
574	Novel breeding method, matÎ±2-PBT, to construct isogenic series of polyploid strains of Saccharomyces cerevisiae. Journal of Bioscience and Bioengineering, 2022, 133, 515-523.	1.1	1
575	FGF/MAPK/Ets signaling in Xenopus ectoderm contributes to neural induction and patterning in an autonomous and paracrine manner, respectively. Cells and Development, 2022, 170, 203769.	0.7	4
576	Modeling Human Genetic Disorders with CRISPR Technologies in Xenopus. Cold Spring Harbor Protocols, 2022, 2022, pdb.prot106997.	0.2	5
578	IL-17/IL-17 Receptor Pathwayâ€"Mediated Inflammatory Response in Apostichopus japonicus Supports the Conserved Functions of Cytokines in Invertebrates. Journal of Immunology, 2022, 208, 464-479.	0.4	14
579	Bile Acids Gate Dopamine Transporter Mediated Currents. Frontiers in Chemistry, 2021, 9, 753990.	1.8	6
580	MicroRNAs as Indicators into the Causes and Consequences of Whole-Genome Duplication Events. Molecular Biology and Evolution, 2022, 39, .	3.5	17
581	Comparative Toxicological Evaluation of Tattoo Inks on Two Model Organisms. Biology, 2021, 10, 1308.	1.3	7

#	Article	IF	Citations
582	Translesion DNA synthesis-driven mutagenesis in very early embryogenesis of fast cleaving embryos. Nucleic Acids Research, 2022, 50, 885-898.	6.5	2
583	A prototype of the mammalian sulfotransferase 1 (SULT1) family in Xenopus laevis: Characterization of a biased usage of SULT1 genes located in the S-subgenome. Gene, 2022, 830, 146495.	1.0	1
584	TE Density: a tool to investigate the biology of transposable elements. Mobile DNA, 2022, 13, 11.	1.3	4
628	S<scp>ub</scp>P<scp>haser</scp>: a robust allopolyploid subgenome phasing method based on subgenomeâ€specific kâ€mers. New Phytologist, 2022, 235, 801-809.	3.5	33
629	A Comprehensive Analysis of Fibrillar Collagens in Lamprey Suggests a Conserved Role in Vertebrate Musculoskeletal Evolution. Frontiers in Cell and Developmental Biology, 2022, 10, 809979.	1.8	2
630	ARVCF catenin controls force production during vertebrate convergent extension. Developmental Cell, 2022, 57, 1119-1131.e5.	3.1	8
632	Diversification and Functional Evolution of HOX Proteins. Frontiers in Cell and Developmental Biology, 2022, 10, .	1.8	8
633	Xenopus Dusp6 modulates FGF signaling to precisely pattern pre-placodal ectoderm. Developmental Biology, 2022, 488, 81-90.	0.9	3
636	BRD4 promotes resection and homology-directed repair of DNA double-strand breaks. Nature Communications, 2022, 13, .	5.8	17
637	Synuclein Analysis in Adult Xenopus laevis. International Journal of Molecular Sciences, 2022, 23, 6058.	1.8	3
638	The Cytoskeletal Protein Zyxin Inhibits Retinoic Acid Signaling by Destabilizing the Maternal mRNA of the RXRÎ³ Nuclear Receptor. International Journal of Molecular Sciences, 2022, 23, 5627.	1.8	1
639	HCN2 channelâ€induced rescue of brain, eye, heart and gut teratogenesis caused by nicotine, ethanol and aberrant notch signalling. Wound Repair and Regeneration, 2022, 30, 681-706.	1.5	11
641	Chromosome-level and haplotype-resolved genome provides insight into the tetraploid hybrid origin of patchouli. Nature Communications, 2022, 13, .	5.8	20
642	Cellular Distribution Pattern of tjp1 (ZO-1) in Xenopus laevis Oocytes Heterologously Expressing Claudins. Journal of Membrane Biology, 2023, 256, 51-61.	1.0	6
644	Enhancers of Host Immune Tolerance to Bacterial Infection Discovered Using Linked Computational and Experimental Approaches. Advanced Science, 2022, 9, .	5.6	3
646	Species Tree Estimation and the Impact of Gene Loss Following Whole-Genome Duplication. Systematic Biology, 2022, 71, 1348-1361.	2.7	10
647	The evolution of vitamin C biosynthesis and transport in animals. Bmc Ecology and Evolution, 2022, 22, .	0.7	6
648	Two duplicated gsdf homeologs cooperatively regulate male differentiation by inhibiting cyp19a1a transcription in a hexaploid fish. PLoS Genetics, 2022, 18, e1010288.	1.5	5

#	Article	IF	Citations
649	Neofunctionalization of a Noncoding Portion of a DNA Transposon in the Coding Region of the Chimerical Sex-Determining Gene dm-W in Xenopus Frogs. Molecular Biology and Evolution, 2022, 39, .	3.5	6
650	The genomic basis of the plant island syndrome in Darwinâ€™s giant daisies. Nature Communications, 2022, 13, .	5.8	6
651	Patterns of tubb2b Promoter-Driven Fluorescence in the Forebrain of Larval Xenopus laevis. Frontiers in Neuroanatomy, 0, 16, .	0.9	3
652	Developing immortal cell lines from Xenopus embryos , four novel cell lines derived from Xenopus tropicalis. Open Biology, 2022, 12, .	1.5	4
653	Gene expression analysis of the <scp>Xenopus laevis</scp> early limb bud proximodistal axis. Developmental Dynamics, 2022, 251, 1880-1896.	0.8	3
654	Comparative genome anatomy reveals evolutionary insights into a unique amphitriploid fish. Nature Ecology and Evolution, 2022, 6, 1354-1366.	3.4	29
655	Equilibrated evolution of the mixed auto-/allopolyploid haplotype-resolved genome of the invasive hexaploid Prussian carp. Nature Communications, 2022, 13, .	5.8	6
658	New insights into Xenopus sex chromosome genomics from the Marsabit clawed frog X.Âborealis. Journal of Evolutionary Biology, 2022, 35, 1777-1790.	0.8	4
659	Genomic characterization of an amphitriploid fish and insights into the evolutionary mechanisms of unisexual reproduction success. , 2022, 1, 100066.		3
661	Functions of block of proliferation 1 during anterior development in Xenopus laevis. PLoS ONE, 2022, 17, e0273507.	1.1	1
662	An atlas of fish genome evolution reveals delayed rediploidization following the teleost whole-genome duplication. Genome Research, 2022, 32, 1685-1697.	2.4	30
664	Maternal Wnt11b regulates cortical rotation during Xenopus axis formation: analysis of maternal-effect wnt11b mutants. Development (Cambridge), 2022, 149, .	1.2	4
665	Insulin Receptor-Related Receptor Regulates the Rate of Early Development in Xenopus laevis. International Journal of Molecular Sciences, 2022, 23, 9250.	1.8	2
666	Nascent transcriptome reveals orchestration of zygotic genome activation in early embryogenesis. Current Biology, 2022, 32, 4314-4324.e7.	1.8	7
667	Molecular conflicts disrupting centromere maintenance contribute to Xenopus hybrid inviability. Current Biology, 2022, 32, 3939-3951.e6.	1.8	4
668	The homeodomain transcription factor Ventx2 regulates respiratory progenitor cell number and differentiation timing during Xenopus lung development. Development Growth and Differentiation, 2022, 64, 347-361.	0.6	2
672	Zbtb21 is required for the anterior-posterior patterning of neural tissue in the early Xenopus embryo. Biochemical and Biophysical Research Communications, 2022, 630, 190-197.	1.0	0
673	Cellular and molecular profiles of larval and adult Xenopus corneal epithelia resolved at the single-cell level. Developmental Biology, 2022, 491, 13-30.	0.9	4

#	Article	IF	Citations
674	A comparative study of cellular diversity between the Xenopus pronephric and mouse metanephric nephron. Kidney International, 2023, 103, 77-86.	2.6	8
675	Comparison of RNA localization during oogenesis within Acipenser ruthenus and Xenopus laevis. Frontiers in Cell and Developmental Biology, 0, 10, .	1.8	3
678	Nodal andchurchill1position the expression of a notch ligand duringXenopusgerm layer segregation. Life Science Alliance, 2022, 5, e202201693.	1.3	0
679	Differential nuclear import sets the timing of protein access to the embryonic genome. Nature Communications, 2022, 13, .	5.8	13
680	p115RhoGEF activates RhoA to support tight junction maintenance and remodeling. Molecular Biology of the Cell, 2022, 33, .	0.9	7
681	Evolution and Potential Subfunctionalization of Duplicatedfms-Related Class III Receptor Tyrosine Kinaseflt3s and Their Ligands in the AllotetraploidXenopus laevis. Journal of Immunology, 2022, 209, 960-969.	0.4	3
682	Quantitative analysis of transcriptome dynamics provides novel insights into developmental state transitions. BMC Genomics, 2022, 23, .	1.2	4
684	Chromosomes in the African frog genus Tomopterna (Pyxicephalidae) and probing the origin of tetraploid Tomopterna tandyi. Genome, 2022, 65, 585-604.	0.9	2
685	Appropriate Amounts and Activity of the Wilmsâ€™ Tumor Suppressor Gene, wt1, Are Required for Normal Pronephros Development of Xenopus Embryos. Journal of Developmental Biology, 2022, 10, 46.	0.9	1
686	Dorsal lip maturation and initial archenteron extension depend on Wnt11 family ligands. Developmental Biology, 2023, 493, 67-79.	0.9	1
687	Divergent subgenome evolution in the allotetraploid frog Xenopus calcaratus. Gene, 2023, 851, 146974.	1.0	5
688	Amphibians as a model to study the role of immune cell heterogeneity in host and mycobacterial interactions. Developmental and Comparative Immunology, 2023, 139, 104594.	1.0	5
690	Development and metamorphosis in frogs deficient in the thyroid hormone transporter MCT8. General and Comparative Endocrinology, 2023, 331, 114179.	0.8	1
692	Model organisms for functional validation in genetic renal disease. Medizinische Genetik, 2022, 34, 287-296.	0.1	0
693	A New Hope: A Hermaphroditic Nematode Enables Analysis of a Recent Whole Genome Duplication Event. Genome Biology and Evolution, 2022, 14, .	1.1	3
694	Population genomics and subgenome evolution of the allotetraploid frog Xenopus laevis in southern Africa. G3: Genes, Genomes, Genetics, 2023, 13, .	0.8	1
696	Major histocompatibility complex genomic investigation of endangered Chinese alligator provides insights into the evolution of tetrapod major histocompatibility complex and survival of critically bottlenecked species. Frontiers in Ecology and Evolution, 0, 10, .	1.1	2
697	Single-cell transcriptomics of the goldfish retina reveals genetic divergence in the asymmetrically evolved subgenomes after allotetraploidization. Communications Biology, 2022, 5, .	2.0	3

#	Article	IF	Citations
701	Characteristic tetraspanin expression patterns mark various tissues during Xenopus early development. Development Growth and Differentiation, 0, , .	0.6	1
702	Chromosome-level genome assembly of a high-altitude-adapted frog (Rana kukunoris) from the Tibetan plateau provides insight into amphibian genome evolution and adaptation. Frontiers in Zoology, 2023, 20, .	0.9	3
703	Comparative analysis of genome-scale, base-resolution DNA methylation profiles across 580 animal species. Nature Communications, 2023, 14, .	5.8	23
704	Detection of hypoxia in the pulmonary tissues of Xenopus laevis over repeated dives. Development Growth and Differentiation, 0, , .	0.6	1
705	Use of Frogs as a Model to Study the Etiology of HLHS. Journal of Cardiovascular Development and Disease, 2023, 10, 51.	0.8	0
706	A molecular network of conserved factors keeps ribosomes dormant in the egg. Nature, 2023, 613, 712-720.	13.7	11
707	Polygenic sex determination in vertebrates â€“ is there any such thing?. Trends in Genetics, 2023, 39, 242-250.	2.9	7
708	The amphibian invitrome: Past, present, and future contributions to our understanding of amphibian immunity. Developmental and Comparative Immunology, 2023, 142, 104644.	1.0	2
709	CRISPR/Cas9 Gene Disruption Studies in F0 Xenopus Tadpoles: Understanding Development and Disease in the Frog. Methods in Molecular Biology, 2023, , 111-130.	0.4	0
710	ccl19 and ccl21 affect cell movements and differentiation in early Xenopus development. Development Growth and Differentiation, 2023, 65, 175-189.	0.6	0
711	3D genome organization and its study in livestock breeding. Journal of Integrative Agriculture, 2024, 23, 39-58.	1.7	0
712	Stem cell development involves divergent thyroid hormone receptor subtype expression and epigenetic modifications in the amphibian intestine during metamorphosis. Vitamins and Hormones, 2023, , 1-22.	0.7	0
714	State-of-the-art approach on the management of invasive faunistic aquatic alien species: The American bullfrog in Belgium. Environmental Challenges, 2023, 11, 100690.	2.0	1
715	TRPM8 thermosensation in poikilotherms mediates both skin colour and locomotor performance responses to cold temperature. Communications Biology, 2023, 6, .	2.0	2
716	Ndst1,ÂaÂheparan sulfateÂmodificationÂenzyme,Âregulates neuroectodermal patterningÂbyÂenhancingÂWntÂsignalingÂin <scp>Xenopus</scp>. Development Growth and Differentiation, 2023, 65, 153-160.	0.6	2
717	The heparan sulfate modification enzyme, Hs6st1, governs Xenopus neuroectodermal patterning by regulating distributions of Fgf and Noggin. Developmental Biology, 2023, 496, 87-94.	0.9	2
719	Xenbase: key features and resources of the Xenopus model organism knowledgebase. Genetics, 2023, 224, .	1.2	12
720	Acquisition of new function through gene duplication in the metallocarboxypeptidase family. Scientific Reports, 2023, 13, .	1.6	0

#	Article	IF	Citations
722	Dodecaploid Xenopus longipes provides insight into the emergence of size scaling relationships during development. Current Biology, 2023, 33, 1327-1336.e4.	1.8	3
723	Translating Ribosome Affinity Purification (TRAP) and Bioinformatic RNA-Seq Analysis in Post-metamorphic Xenopus laevis. Methods in Molecular Biology, 2023, , 279-310.	0.4	0
725	Two Homeobox Transcription Factors, Goosecoid and Ventx1.1, Oppositely Regulate Chordin Transcription in Xenopus Gastrula Embryos. Cells, 2023, 12, 874.	1.8	2
726	The Josephin domain (JD) containing proteins are predicted to bind to the same interactors: Implications for spinocerebellar ataxia type 3 (SCA3) studies using Drosophila melanogaster mutants. Frontiers in Molecular Neuroscience, 0, 16, .	1.4	2
727	A proteasomal Î²5 subunit of Haemonchus contortus with a role in the growth, development and life span. Parasites and Vectors, 2023, 16, .	1.0	0
728	Parthenogenesis in dipterans: a genetic perspective. Proceedings of the Royal Society B: Biological Sciences, 2023, 290, .	1.2	6
730	Comparative Transcriptomic Analysis Reveals the Functionally Segmented Intestine in Tunicate Ascidian. International Journal of Molecular Sciences, 2023, 24, 6270.	1.8	2
731	Genome balance and dosage effect drive allopolyploid formation in Brassica. Proceedings of the National Academy of Sciences of the United States of America, 2023, 120, .	3.3	12
732	Dual leucine zipper kinase is necessary for retinal ganglion cell axonal regeneration in Xenopus laevis. , 0, , .		0
733	Gene expression analysis of the Tao kinase family of Ste20p-like map kinase kinase kinases during early embryonic development in Xenopus laevis. Gene Expression Patterns, 2023, 48, 119318.	0.3	1
734	Patterns, mechanisms, and consequences of homoeologous exchange in allopolyploid angiosperms: a genomic and epigenomic perspective. New Phytologist, 2023, 238, 2284-2304.	3.5	11
735	A single-cell, time-resolved profiling of Xenopus mucociliary epithelium reveals nonhierarchical model of development. Science Advances, 2023, 9, .	4.7	3
736	Modification of maternally defined H3K4me3 regulates the inviability of interspecific Xenopus hybrids. Science Advances, 2023, 9, .	4.7	1
737	Polyploidy in Xenopus lowers metabolic rate by decreasing total cell surface area. Current Biology, 2023, 33, 1744-1752.e7.	1.8	10
841	Preparation of Xenopus borealis and Xenopus tropicalis Egg Extracts for Comparative Cell Biology and Evolutionary Studies. Methods in Molecular Biology, 2024, , 169-185.	0.4	0
842	Studying Translesion DNA Synthesis Using Xenopus In Vitro Systems. Methods in Molecular Biology, 2024, , 21-36.	0.4	0