Joachim Wittbrodt

List of Publications by Year
in descending order

197 papers	32,071 citations	22099 59 h-index	4978 167 g-index
237 all docs	237 docs citations	237 times ranked	48100 citing authors

#	Article	IF	Citations
1	An integrated encyclopedia of DNA elements in the human genome. Nature, 2012, 489, 57-74.	13.7	15,516
2	Optical Sectioning Deep Inside Live Embryos by Selective Plane Illumination Microscopy. Science, 2004, 305, 1007-1009.	6.0	2,103
3	Reconstruction of Zebrafish Early Embryonic Development by Scanned Light Sheet Microscopy. Science, 2008, 322, 1065-1069.	6.0	1,397
4	CCTop: An Intuitive, Flexible and Reliable CRISPR/Cas9 Target Prediction Tool. PLoS ONE, 2015, 10, e0124633.	1.1	826
5	Medaka â€" a model organism from the far east. Nature Reviews Genetics, 2002, 3, 53-64.	7.7	672
6	Fast, high-contrast imaging of animal development with scanned light sheetâ€"based structured-illumination microscopy. Nature Methods, 2010, 7, 637-642.	9.0	515
7	I-SceI meganuclease mediates highly efficient transgenesis in fish. Mechanisms of Development, 2002, 118, 91-98.	1.7	484
8	Ciliary Photoreceptors with a Vertebrate-Type Opsin in an Invertebrate Brain. Science, 2004, 306, 869-871.	6.0	391
9	Novel putative receptor tyrosine kinase encoded by the melanoma-inducing Tu locus in Xiphophorus. Nature, 1989, 341, 415-421.	13.7	346
10	More genes in fish?. BioEssays, 1998, 20, 511-515.	1.2	264
11	Differences in vertebrate microRNA expression. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 14385-14389.	3.3	251
12	Evolution of the bilaterian larval foregut. Nature, 2001, 409, 81-85.	13.7	238
13	Six3 overexpression initiates the formation of ectopic retina. Genes and Development, 1999, 13, 649-654.	2.7	232
14	Direct interaction of geminin and Six3 in eye development. Nature, 2004, 427, 745-749.	13.7	225
15	Medaka and zebrafish, an evolutionary twin study. Mechanisms of Development, 2004, 121, 629-637.	1.7	202
16	Ectopic lens induction in fish in response to the murine homeobox gene Six3. Mechanisms of Development, 1996, 60, 233-239.	1.7	190
17	Individual Cell Migration Serves as the Driving Force for Optic Vesicle Evagination. Science, 2006, 313, 1130-1134.	6.0	188
18	Reconstructing the eyes of Urbilateria. Philosophical Transactions of the Royal Society B: Biological Sciences, 2001, 356, 1545-1563.	1.8	183

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19	Epigenomic enhancer annotation reveals a key role for NFIX in neural stem cell quiescence. Genes and Development, 2013, 27, 1769-1786.	2.7	170
20	Development of pigment-cup eyes in the polychaete<i>Platynereis dumerilii</i>and evolutionary conservation of larval eyes in Bilateria. Development (Cambridge), 2002, 129, 1143-1154.	1.2	169
21	Differentiation of the Vertebrate Retina Is Coordinated by an FGF Signaling Center. Developmental Cell, 2005, 8, 565-574.	3.1	165
22	Distinct roles for BAI1 and TIM-4 in the engulfment of dying neurons by microglia. Nature Communications, 2014, 5, 4046.	5.8	164
23	Loss of eyes in zebrafish caused by mutation of chokh / rx3. EMBO Reports, 2003, 4, 894-899.	2.0	161
24	Arthropod-like Expression Patterns of engrailed and wingless in the Annelid Platynereis dumerilii Suggest a Role in Segment Formation. Current Biology, 2003, 13, 1876-1881.	1.8	160
25	Six3, a medaka homologue of the Drosophila homeobox gene sine oculis is expressed in the anterior embryonic shield and the developing eye. Mechanisms of Development, 1998, 74, 159-164.	1.7	145
26	Ubiquitinâ€specific proteaseâ€like 1 (USPL1) is a SUMO isopeptidase with essential, nonâ€catalytic functions. EMBO Reports, 2012, 13, 930-938.	2.0	143
27	<i>Six3</i>inactivation reveals its essential role for the formation and patterning of the vertebrate eye. Development (Cambridge), 2002, 129, 4057-4063.	1.2	141
28	One for Allâ€"A Highly Efficient and Versatile Method for Fluorescent Immunostaining in Fish Embryos. PLoS ONE, 2011, 6, e19713.	1.1	141
29	A genetic screen for mutations affecting embryonic development in medaka fish (Oryzias latipes). Mechanisms of Development, 2000, 97, 133-139.	1.7	135
30	A systematic genome-wide screen for mutations affecting organogenesis in Medaka, Oryzias latipes. Mechanisms of Development, 2004, 121, 647-658.	1.7	126
31	Transgenesis in fish: efficient selection of transgenic fish by co-injection with a fluorescent reporter construct. Nature Protocols, 2006, 1, 1133-1139.	5.5	126
32	Medaka<i>eyeless</i>is the key factor linking retinal determination and eye growth. Development (Cambridge), 2001, 128, 4035-4044.	1.2	124
33	Six3 and Six6 activity is modulated by members of the groucho family. Development (Cambridge), 2003, 130, 185-195.	1.2	122
34	Medaka <i>spalt</i> acts as a target gene of <i>hedgehog</i> signaling. Development (Cambridge), 1997, 124, 3147-3156.	1.2	116
35	An eye on eye development. Mechanisms of Development, 2013, 130, 347-358.	1.7	105
36	Disruption of mesoderm and axis formation in fish by ectopic expression of activin variants: the role of maternal activin.. Genes and Development, 1994, 8, 1448-1462.	2.7	102

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37	Ectopic Sox3 activity elicits sensory placode formation. Mechanisms of Development, 2000, 95, 175-187.	1.7	98
38	Introducing Biomedisa as an open-source online platform for biomedical image segmentation. Nature Communications, 2020, 11, 5577.	5.8	96
39	The Genomic and Genetic Toolbox of the Teleost Medaka (<i>Oryzias latipes</i>). Genetics, 2015, 199, 905-918.	1.2	91
40	Instantaneous isotropic volumetric imaging of fast biological processes. Nature Methods, 2019, 16, 497-500.	9.0	89
41	Retinal neurogenesis. Development (Cambridge), 2014, 141, 241-244.	1.2	88
42	Genetic and functional insights into the fractal structure of the heart. Nature, 2020, 584, 589-594.	13.7	86
43	Efficient single-copy HDR by 5â€™ modified long dsDNA donors. ELife, 2018, 7, .	2.8	86
44	Identification and lineage tracing of two populations of somatic gonadal precursors in medaka embryos. Developmental Biology, 2006, 295, 678-688.	0.9	85
45	<i>ojoplano</i>-mediated basal constriction is essential for optic cup morphogenesis. Development (Cambridge), 2009, 136, 2165-2175.	1.2	84
46	Fate Restriction and Multipotency in Retinal Stem Cells. Cell Stem Cell, 2011, 9, 553-562.	5.2	83
47	Eye morphogenesis driven by epithelial flow into the optic cup facilitated by modulation of bone morphogenetic protein. ELife, 2015, 4, .	2.8	82
48	Highly Efficient Zebrafish Transgenesis Mediated by the Meganuclease I-SceI. Methods in Cell Biology, 2004, 77, 381-401.	0.5	81
49	Zebrafish Radar: A new member of the TGF-Î² superfamily defines dorsal regions of the neural plate and the embryonic retina. Mechanisms of Development, 1995, 49, 223-234.	1.7	80
50	Morphogenesis of the optic tectum in the medaka (Oryzias latipes): A morphological and molecular study, with special emphasis on cell proliferation. , 1999, 413, 385-404.		80
51	The conditional medaka mutation <i>eyeless</i> uncouples patterning and morphogenesis of the eye. Development (Cambridge), 2000, 127, 1911-1919.	1.2	79
52	Development of pigment-cup eyes in the polychaete Platynereis dumerilii and evolutionary conservation of larval eyes in Bilateria. Development (Cambridge), 2002, 129, 1143-54.	1.2	79
53	Transposon-mediated enhancer trapping in medaka. Gene, 2003, 322, 57-66.	1.0	78
54	Deep learning-enhanced light-field imaging with continuous validation. Nature Methods, 2021, 18, 557-563.	9.0	75

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55	Trawler: de novo regulatory motif discovery pipeline for chromatin immunoprecipitation. Nature Methods, 2007, 4, 563-565.	9.0	71
56	TRIM25 has a dual function in the p53/Mdm2 circuit. Oncogene, 2015, 34, 5729-5738.	2.6	71
57	Sox2, Tlx, Gli3, and Her9 converge on Rx2 to define retinal stem cells <i>inÂvivo</i>. EMBO Journal, 2015, 34, 1572-1588.	3.5	71
58	Rx-Cre, a tool for inactivation of gene expression in the developing retina. Genesis, 2006, 44, 361-363.	0.8	69
59	Shaping the vertebrate eye. Current Opinion in Genetics and Development, 2009, 19, 511-517.	1.5	69
60	Numb/Numbl-Opo Antagonism Controls Retinal Epithelium Morphogenesis by Regulating Integrin Endocytosis. Developmental Cell, 2012, 23, 782-795.	3.1	67
61	Melanoma Loss-of-Function Mutants in Xiphophorus Caused by Xmrk-Oncogene Deletion and Gene Disruption by a Transposable Element. Genetics, 1999, 153, 1385-1394.	1.2	65
62	Exclusive multipotency and preferential asymmetric divisions in post-embryonic neural stem cells of the fish retina. Development (Cambridge), 2014, 141, 3472-3482.	1.2	64
63	Integration of Hedgehog and BMP signalling by the <i>engrailed2a</i> gene in the zebrafish myotome. Development (Cambridge), 2011, 138, 755-765.	1.2	63
64	Analysis of cellular behavior and cytoskeletal dynamics reveal a constriction mechanism driving optic cup morphogenesis. ELife, 2016, 5, .	2.8	63
65	Cell cycle control by homeobox genes in development and disease. Seminars in Cell and Developmental Biology, 2005, 16, 449-460.	2.3	62
66	The Xmrk receptor tyrosine kinase is activated in Xiphophorus malignant melanoma.. EMBO Journal, 1992, 11, 4239-4246.	3.5	61
67	Golden GATEway Cloning â€“ A Combinatorial Approach to Generate Fusion and Recombination Constructs. PLoS ONE, 2013, 8, e76117.	1.1	60
68	Characterization of the neural stem cell gene regulatory network identifies OLIG2 as a multifunctional regulator of self-renewal. Genome Research, 2015, 25, 41-56.	2.4	60
69	Dynamics of in vivo ASC speck formation. Journal of Cell Biology, 2017, 216, 2891-2909.	2.3	60
70	The centriolar satellite protein SSX2IP promotes centrosome maturation. Journal of Cell Biology, 2013, 202, 81-95.	2.3	58
71	Automated high-throughput heartbeat quantification in medaka and zebrafish embryos under physiological conditions. Scientific Reports, 2020, 10, 2046.	1.6	57
72	Six3 inactivation reveals its essential role for the formation and patterning of the vertebrate eye. Development (Cambridge), 2002, 129, 4057-63.	1.2	57

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73	A Small-Molecule FRET Probe To Monitor Phospholipase A2 Activity in Cells and Organisms. Angewandte Chemie - International Edition, 2006, 45, 508-512.	7.2	56
74	Genomic and Phenotypic Characterization of a Wild Medaka Population: Towards the Establishment of an Isogenic Population Genetic Resource in Fish. G3: Genes, Genomes, Genetics, 2014, 4, 433-445.	0.8	54
75	Zebrafish and medaka: model organisms for a comparative developmental approach of brain asymmetry. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 991-1003.	1.8	52
76	Meganuclease and transposon mediated transgenesis in medaka. Genome Biology, 2007, 8, S10.	13.9	51
77	Large-scale expression screening by automated whole-mount in situ hybridization. Mechanisms of Development, 2004, 121, 971-976.	1.7	50
78	Graded interference with FGF signalling reveals its dorsoventral asymmetry at the mid-hindbrain boundary. Development (Cambridge), 1999, 126, 5659-5667.	1.2	50
79	Quantitative Analysis of Embryogenesis: A Perspective for Light Sheet Microscopy. Developmental Cell, 2012, 23, 1111-1120.	3.1	49
80	Digital Scanned Laser Light-Sheet Fluorescence Microscopy (DSLM) of Zebrafish and <i>Drosophila</i> Embryonic Development. Cold Spring Harbor Protocols, 2011, 2011, pdb.prot065839.	0.2	48
81	Comparative epigenomics in distantly related teleost species identifies conserved <i>cis</i>-regulatory nodes active during the vertebrate phylotypic period. Genome Research, 2014, 24, 1075-1085.	2.4	47
82	Birth and life of tissue macrophages and their migration in embryogenesis and inflammation in medaka. Journal of Leukocyte Biology, 2007, 81, 263-271.	1.5	46
83	Nlcam modulates midline convergence during anterior neural plate morphogenesis. Developmental Biology, 2010, 339, 14-25.	0.9	46
84	Medaka eyeless is the key factor linking retinal determination and eye growth. Development (Cambridge), 2001, 128, 4035-44.	1.2	46
85	The discovery, positioning and verification of a set of transcription-associated motifs in vertebrates. Genome Biology, 2005, 6, R104.	13.9	45
86	In Vivo Validation of a Computationally Predicted Conserved Ath5 Target Gene Set. PLoS Genetics, 2007, 3, e159.	1.5	45
87	Polychaete trunk neuroectoderm converges and extends by mediolateral cell intercalation. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 2727-2732.	3.3	44
88	A screen for co-factors of Six3. Mechanisms of Development, 2002, 117, 103-113.	1.7	42
89	New genes in the evolution of the neural crest differentiation program. Genome Biology, 2007, 8, R36.	13.9	42
90	Identification, visualization and clonal analysis of intestinal stem cells in fish. Development (Cambridge), 2016, 143, 3470-3480.	1.2	42

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91	Medaka spalt acts as a target gene of hedgehog signaling. Development (Cambridge), 1997, 124, 3147-56.	1.2	42
92	Recent Advances in Meganuclease-and Transposon-Mediated Transgenesis of Medaka and Zebrafish. Methods in Molecular Biology, 2008, 461, 521-539.	0.4	41
93	Ligand-dependent tumor induction in medakafish embryos by a Xmrk receptor tyrosine kinase transgene. Oncogene, 1994, 9, 1517-25.	2.6	41
94	The midbrain-hindbrain boundary genetic cascade is activated ectopically in the diencephalon in response to the widespread expression of one of its components, the medaka gene <i>Ol-eng2</i>. Development (Cambridge), 1999, 126, 3769-3779.	1.2	40
95	Medial floor plate formation in zebrafish consists of two phases and requires trunk-derived Midkine-a. Genes and Development, 2005, 19, 897-902.	2.7	39
96	Activating the regenerative potential of MÃ¼ller glia cells in a regeneration-deficient retina. ELife, 2018, 7, .	2.8	39
97	Mutant analyses reveal different functions of fgfr1 in medaka and zebrafish despite conserved ligandâ€"receptor relationships. Developmental Biology, 2007, 304, 326-337.	0.9	37
98	ArhGEF18 regulates RhoA-Rock2 signaling to maintain neuro-epithelial apico-basal polarity and proliferation. Development (Cambridge), 2013, 140, 2787-2797.	1.2	37
99	Cavefish eye loss in response to an early block in retinal differentiation progression. Development (Cambridge), 2015, 142, 743-752.	1.2	37
100	Mutations affecting liver development and function in Medaka, Oryzias latipes, screened by multiple criteria. Mechanisms of Development, 2004, 121, 791-802.	1.7	35
101	Efficient site-specific transgenesis and enhancer activity tests in medaka using PhiC31 integrase. Development (Cambridge), 2013, 140, 4287-4295.	1.2	34
102	Tyrosine phosphorylation of <scp>LRP</scp>6 by Src and Fer inhibits Wnt/Î²â€catenin signalling. EMBO Reports, 2014, 15, 1254-1267.	2.0	34
103	Ancestry of Photic and Mechanic Sensation?. Science, 2005, 308, 1113-1114.	6.0	33
104	4DXpress: a database for cross-species expression pattern comparisons. Nucleic Acids Research, 2007, 36, D847-D853.	6.5	33
105	Deletion of a kinesin I motor unmasks a mechanism of homeostatic branching control by neurotrophin-3. ELife, 2015, 4, .	2.8	30
106	Tumor angiogenesis is caused by single melanoma cells in a reactive oxygen species and NF-Î°B dependent manner. Journal of Cell Science, 2013, 126, 3862-72.	1.2	29
107	A global survey identifies novel upstream components of the Ath5 neurogenic network. Genome Biology, 2009, 10, R92.	13.9	28
108	TGFÎ²-facilitated optic fissure fusion and the role of bone morphogenetic protein antagonism. Open Biology, 2018, 8, .	1.5	28

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109	Quantitative morphometric analysis of adult teleost fish by X-ray computed tomography. Scientific Reports, 2018, 8, 16531.	1.6	28
110	Efficient activation of gene expression using a heat-shock inducible Gal4/Vp16-UAS system in medaka. , 2004, 4, 26.		27
111	Identification of <i>starmakerâ€like</i> in medaka as a putative target gene of Pax2 in the otic vesicle. Developmental Dynamics, 2009, 238, 2860-2866.	0.8	27
112	Five Nkx5 genes show differential expression patterns in anlagen of sensory organs in medaka: insight into the evolution of the gene family. Development Genes and Evolution, 2001, 211, 338-349.	0.4	26
113	Autocrine stimulation of the Xmrk receptor tyrosine kinase in Xiphophorus melanoma cells and identification of a source for the physiological ligand.. Journal of Biological Chemistry, 1994, 269, 10423-10430.	1.6	26
114	The conditional medaka mutation eyeless uncouples patterning and morphogenesis of the eye. Development (Cambridge), 2000, 127, 1911-9.	1.2	26
115	The homeobox gene Xbh1 cooperates with proneural genes to specify ganglion cell fate within the Xenopus neural retina. Development (Cambridge), 2004, 131, 2305-2315.	1.2	24
116	MEPD: a resource for medaka gene expression patterns. Bioinformatics, 2005, 21, 3195-3197.	1.8	24
117	De novo neurogenesis by targeted expression of Atoh7 to MÃ¼ller glia cells. Development (Cambridge), 2016, 143, 1874-83.	1.2	24
118	Enhanced in vivo-imaging in medaka by optimized anaesthesia, fluorescent protein selection and removal of pigmentation. PLoS ONE, 2019, 14, e0212956.	1.1	24
119	MEPD: a Medaka gene expression pattern database. Nucleic Acids Research, 2003, 31, 72-74.	6.5	23
120	Lineage tracing of col10a1 cells identifies distinct progenitor populations for osteoblasts and joint cells in the regenerating fin of medaka (Oryzias latipes). Developmental Biology, 2019, 455, 85-99.	0.9	23
121	Autocrine stimulation of the Xmrk receptor tyrosine kinase in Xiphophorus melanoma cells and identification of a source for the physiological ligand. Journal of Biological Chemistry, 1994, 269, 10423-30.	1.6	23
122	An in situ hybridization screen for the rapid isolation of differentially expressed genes. Development Genes and Evolution, 2000, 210, 28-33.	0.4	21
123	Close association of olfactory placode precursors and cranial neural crest cells does not predestine cell mixing. Developmental Dynamics, 2012, 241, 1143-1154.	0.8	21
124	Noninvasive In Toto Imaging of the Thymus Reveals Heterogeneous Migratory Behavior of Developing T Cells. Journal of Immunology, 2015, 195, 2177-2186.	0.4	21
125	Retinal stem cells modulate proliferative parameters to coordinate post-embryonic morphogenesis in the eye of fish. ELife, 2019, 8, .	2.8	21
126	Mutations affecting retina development in Medaka. Mechanisms of Development, 2004, 121, 703-714.	1.7	20

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127	The Xmrk receptor tyrosine kinase is activated in Xiphophorus malignant melanoma. EMBO Journal, 1992, 11, 4239-46.	3.5	20
128	The PAR complex controls the spatiotemporal dynamics of F-actin and the MTOC in directionally migrating leukocytes. Journal of Cell Science, 2014, 127, 4381-95.	1.2	19
129	Purification and cDNA-derived sequence of adenylosuccinate synthetase from Dictyostelium discoideum. Journal of Biological Chemistry, 1991, 266, 2480-5.	1.6	19
130	Mutations affecting somite formation in the Medaka (Oryzias latipes). Mechanisms of Development, 2004, 121, 659-671.	1.7	18
131	Rapid identification of PAX2/5/8 direct downstream targets in the otic vesicle by combinatorial use of bioinformatics tools. Genome Biology, 2008, 9, R145.	13.9	18
132	Gastrulation in an annual killifish: Molecular and cellular events during germ layer formation in <i>Austrolebias</i>. Developmental Dynamics, 2017, 246, 812-826.	0.8	18
133	Genetic dissection of the formation of the forebrain in Medaka, Oryzias latipes. Mechanisms of Development, 2004, 121, 673-685.	1.7	17
134	Mutations affecting retinotectal axonal pathfinding in Medaka, Oryzias latipes. Mechanisms of Development, 2004, 121, 715-728.	1.7	17
135	Novel components of germline sex determination acting downstream of foxl3 in medaka. Developmental Biology, 2019, 445, 80-89.	0.9	17
136	Fish primary embryonic pluripotent cells assemble into retinal tissue mirroring in vivo early eye development. ELife, 2021, 10, .	2.8	17
137	Analysis of an esterase linked to a locus involved in the regulation of the melanoma oncogene and isolation of polymorphic marker sequences inXiphophorus. Biochemical Genetics, 1991, 29, 509-524.	0.8	16
138	The BMP-related protein Radar: a maintenance factor for dorsal neuroectoderm cells?. Mechanisms of Development, 1999, 85, 15-25.	1.7	16
139	Cloning and expression of medaka Dachshund. Mechanisms of Development, 2002, 112, 203-206.	1.7	16
140	iDamIDseq and iDEAR: An improved method and computational pipeline to profile chromatin-binding proteins. Development (Cambridge), 2016, 143, 4272-4278.	1.2	16
141	Left/right asymmetric collective migration of parapineal cells is mediated by focal FGF signaling activity in leading cells. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E9812-E9821.	3.3	16
142	Characterization and Developmentally Regulated Expression of Four Annexins in the Killifish Medaka. DNA and Cell Biology, 1998, 17, 835-847.	0.9	15
143	Using Trawler_standalone to discover overrepresented motifs in DNA and RNA sequences derived from various experiments including chromatin immunoprecipitation. Nature Protocols, 2010, 5, 323-334.	5.5	15
144	Loss of maternal Smad5 in zebrafish embryos affects patterning and morphogenesis of optic primordia. Developmental Dynamics, 2003, 227, 128-133.	0.8	14

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145	Deltr: Digital embryo lineage tree reconstructor. , 2011, , .		14
146	Bifacial stem cell niches in fish and plants. Current Opinion in Genetics and Development, 2017, 45, 28-33.	1.5	14
147	RFLP for an EGF-receptor related gene associated with the melanoma oncogene locus ofXiphophorus maculatus. Nucleic Acids Research, 1988, 16, 7212-7212.	6.5	13
148	Rapid chromosomal assignment of medaka mutants by bulked segregant analysis. Gene, 2004, 329, 159-165.	1.0	13
149	Morphogenesis and axis specification occur in parallel during optic cup and optic fissure formation, differentially modulated by BMP and Wnt. Open Biology, 2019, 9, 180179.	1.5	13
150	Characterization of teleost Mdga1 using a geneâ€trap approach in medaka (<i>Oryzias latipes</i>). Genesis, 2009, 47, 505-513.	0.8	12
151	An eye on light-sheet microscopy. Methods in Cell Biology, 2016, 133, 105-123.	0.5	12
152	Notch signalling patterns retinal composition by regulating <i>atoh7</i> during post-embryonic growth. Development (Cambridge), 2018, 145, .	1.2	12
153	Precise in vivo functional analysis of DNA variants with base editing using ACEofBASEs target prediction. ELife, 2022, 11, .	2.8	12
154	Combining Computational Prediction of Cis-Regulatory Elements with a New Enhancer Assay to Efficiently Label Neuronal Structures in the Medaka Fish. PLoS ONE, 2011, 6, e19747.	1.1	11
155	MEPD: medaka expression pattern database, genes and more. Nucleic Acids Research, 2016, 44, D819-D821.	6.5	11
156	Expression of the novel maternal centrosome assembly factor Wdr8 is required for vertebrate embryonic mitoses. Nature Communications, 2017, 8, 14090.	5.8	11
157	An inexpensive and versatile computer-controlled PCR machine using a Peltier element as thermoelectric heat pump. Trends in Genetics, 1989, 5, 202-203.	2.9	10
158	In vivo time-lapse imaging in medaka â€“ n-heptanol blocks contractile rhythmical movements. Mechanisms of Development, 2004, 121, 965-970.	1.7	10
159	A Novel Mammal-Specific Three Partite Enhancer Element Regulates Node and Notochord-Specific Noto Expression. PLoS ONE, 2012, 7, e47785.	1.1	10
160	Loss and Rebirth of the Animal Microtubule Organizing Center: How Maternal Expression of Centrosomal Proteins Cooperates with the Sperm Centriole in Zygotic Centrosome Reformation. BioEssays, 2018, 40, e1700135.	1.2	10
161	Yap1b, a divergent Yap/Taz family member, cooperates with yap1 in survival and morphogenesis via common transcriptional targets. Development (Cambridge), 2019, 146, .	1.2	10
162	Igf signaling couples retina growth with body growth by modulating progenitor cell division. Development (Cambridge), 2021, 148, .	1.2	10

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163	Boosting targeted genome editing using the hei-tag. ELife, 2022, 11, .	2.8	10
164	Cis-regulatory properties of medaka synexpression groups. Development (Cambridge), 2012, 139, 917-928.	1.2	9
165	Swift Large-scale Examination of Directed Genome Editing. PLoS ONE, 2019, 14, e0213317.	1.1	9
166	Current Status of Medaka Genetics and Genomics. Methods in Cell Biology, 2004, 77, 173-199.	0.5	8
167	Differential responsiveness of distinct retinal domains to Atoh7. Mechanisms of Development, 2014, 133, 218-229.	1.7	8
168	Analysis of heterologous and homologous promoters and enhancers in vitro and in vivo by gene transfer into Japanese medaka (Oryzias latipes) Xiphophorus. Molecular Marine Biology and Biotechnology, 1992, 1, 326-37.	0.4	8
169	The C-Mannosylome of Human Induced Pluripotent Stem Cells Implies a Role for ADAMTS16 C-Mannosylation in Eye Development. Molecular and Cellular Proteomics, 2021, 20, 100092.	2.5	7
170	The midbrain-hindbrain boundary genetic cascade is activated ectopically in the diencephalon in response to the widespread expression of one of its components, the medaka gene Ol-eng2. Development (Cambridge), 1999, 126, 3769-79.	1.2	7
171	Graded interference with FGF signalling reveals its dorsoventral asymmetry at the mid-hindbrain boundary. Development (Cambridge), 1999, 126, 5659-67.	1.2	7
172	Wnt11 acts on dermomyotome cells to guide epaxial myotome morphogenesis. ELife, 2022, 11, .	2.8	7
173	GSD: a genetic screen database. Mechanisms of Development, 2004, 121, 959-963.	1.7	6
174	Cloning of mouse ojoplano, a reticular cytoplasmic protein expressed during embryonic development. Gene Expression Patterns, 2009, 9, 562-567.	0.3	6
175	Pcdh18a regulates endocytosis of E-cadherin during axial mesoderm development in zebrafish. Histochemistry and Cell Biology, 2020, 154, 463-480.	0.8	6
176	Î±Î²/Î³Î´ T cell lineage outcome is regulated by intrathymic cell localization and environmental signals. Science Advances, 2021, 7, .	4.7	6
177	The Medaka Inbred Kiyosu-Karlsruhe (MIKK) panel. Genome Biology, 2022, 23, 59.	3.8	6
178	Analysis of mammalian gene batteries reveals both stable ancestral cores and highly dynamic regulatory sequences. Genome Biology, 2008, 9, R172.	13.9	5
179	Expression screening using a Medaka cDNA library identifies evolutionarily conserved regulators of the p53/Mdm2 pathway. BMC Biotechnology, 2015, 15, 92.	1.7	5
180	Genomic variations and epigenomic landscape of the Medaka Inbred Kiyosu-Karlsruhe (MIKK) panel. Genome Biology, 2022, 23, 58.	3.8	5

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181	In vivo identification and validation of novel potential predictors for human cardiovascular diseases. PLoS ONE, 2021, 16, e0261572.	1.1	5
182	Expression of a medaka (Oryzias latipes) Bar homologue in the differentiating central nervous system and retina. Mechanisms of Development, 2002, 114, 193-196.	1.7	4
183	Learning to segment dense cell nuclei with shape prior. , 2012, , .		4
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