

Joachim Wittbrodt

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203
papers

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155
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237
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29,394
ext. citations

8.8
avg. IF

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L-index

#	Paper	IF	Citations
203	An integrated encyclopedia of DNA elements in the human genome. <i>Nature</i> , 2012 , 489, 57-74	50.4	11449
202	Optical sectioning deep inside live embryos by selective plane illumination microscopy. <i>Science</i> , 2004 , 305, 1007-9	33.3	1531
201	Reconstruction of zebrafish early embryonic development by scanned light sheet microscopy. <i>Science</i> , 2008 , 322, 1065-9	33.3	1075
200	Medaka—a model organism from the far East. <i>Nature Reviews Genetics</i> , 2002 , 3, 53-64	30.1	555
199	CCTop: An Intuitive, Flexible and Reliable CRISPR/Cas9 Target Prediction Tool. <i>PLoS ONE</i> , 2015 , 10, e0124633	4.33	493
198	I-SceI meganuclease mediates highly efficient transgenesis in fish. <i>Mechanisms of Development</i> , 2002 , 118, 91-8	1.7	424
197	Fast, high-contrast imaging of animal development with scanned light sheet-based structured-illumination microscopy. <i>Nature Methods</i> , 2010 , 7, 637-42	21.6	411
196	Ciliary photoreceptors with a vertebrate-type opsin in an invertebrate brain. <i>Science</i> , 2004 , 306, 869-71	33.3	322
195	Novel putative receptor tyrosine kinase encoded by the melanoma-inducing Tu locus in <i>Xiphophorus</i> . <i>Nature</i> , 1989 , 341, 415-21	50.4	296
194	More genes in fish?. <i>BioEssays</i> , 1998 , 20, 511-515	4.1	223
193	Differences in vertebrate microRNA expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 14385-9	11.5	212
192	Evolution of the bilaterian larval foregut. <i>Nature</i> , 2001 , 409, 81-5	50.4	211
191	Direct interaction of geminin and Six3 in eye development. <i>Nature</i> , 2004 , 427, 745-9	50.4	209
190	Six3 overexpression initiates the formation of ectopic retina. <i>Genes and Development</i> , 1999 , 13, 649-54	12.6	204
189	Ectopic lens induction in fish in response to the murine homeobox gene Six3. <i>Mechanisms of Development</i> , 1996 , 60, 233-9	1.7	175
188	Medaka and zebrafish, an evolutionary twin study. <i>Mechanisms of Development</i> , 2004 , 121, 629-37	1.7	173
187	Reconstructing the eyes of Urbilateria. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2001 , 356, 1545-63	5.8	146

186	Individual cell migration serves as the driving force for optic vesicle evagination. <i>Science</i> , 2006 , 313, 1130-4	9.3	143
185	Differentiation of the vertebrate retina is coordinated by an FGF signaling center. <i>Developmental Cell</i> , 2005 , 8, 565-74	10.2	143
184	Loss of eyes in zebrafish caused by mutation of <i>chokh/rx3</i> . <i>EMBO Reports</i> , 2003 , 4, 894-9	6.5	142
183	Development of pigment-cup eyes in the polychaete <i>Platynereis dumerilii</i> and evolutionary conservation of larval eyes in Bilateria. <i>Development (Cambridge)</i> , 2002 , 129, 1143-1154	6.6	139
182	<i>Six3</i> , a medaka homologue of the <i>Drosophila</i> <i>homeobox</i> gene <i>sine oculis</i> is expressed in the anterior embryonic shield and the developing eye. <i>Mechanisms of Development</i> , 1998 , 74, 159-64	1.7	132
181	Epigenomic enhancer annotation reveals a key role for NFIX in neural stem cell quiescence. <i>Genes and Development</i> , 2013 , 27, 1769-86	12.6	126
180	<i>Six3</i> inactivation reveals its essential role for the formation and patterning of the vertebrate eye. <i>Development (Cambridge)</i> , 2002 , 129, 4057-4063	6.6	125
179	Distinct roles for BAI1 and TIM-4 in the engulfment of dying neurons by microglia. <i>Nature Communications</i> , 2014 , 5, 4046	17.4	123
178	Arthropod-like expression patterns of <i>engrailed</i> and <i>wingless</i> in the annelid <i>Platynereis dumerilii</i> suggest a role in segment formation. <i>Current Biology</i> , 2003 , 13, 1876-81	6.3	116
177	A systematic genome-wide screen for mutations affecting organogenesis in Medaka, <i>Oryzias latipes</i> . <i>Mechanisms of Development</i> , 2004 , 121, 647-58	1.7	115
176	<i>Six3</i> and <i>Six6</i> activity is modulated by members of the <i>groucho</i> family. <i>Development (Cambridge)</i> , 2003 , 130, 185-95	6.6	110
175	Ubiquitin-specific protease-like 1 (USPL1) is a SUMO isopeptidase with essential, non-catalytic functions. <i>EMBO Reports</i> , 2012 , 13, 930-8	6.5	105
174	Transgenesis in fish: efficient selection of transgenic fish by co-injection with a fluorescent reporter construct. <i>Nature Protocols</i> , 2006 , 1, 1133-9	18.8	105
173	<i>Medakaeyeless</i> is the key factor linking retinal determination and eye growth. <i>Development (Cambridge)</i> , 2001 , 128, 4035-4044	6.6	102
172	One for all—a highly efficient and versatile method for fluorescent immunostaining in fish embryos. <i>PLoS ONE</i> , 2011 , 6, e19713	3.7	98
171	A genetic screen for mutations affecting embryonic development in medaka fish (<i>Oryzias latipes</i>). <i>Mechanisms of Development</i> , 2000 , 97, 133-9	1.7	96
170	Ectopic <i>Sox3</i> activity elicits sensory placode formation. <i>Mechanisms of Development</i> , 2000 , 95, 175-87	1.7	94
169	Disruption of mesoderm and axis formation in fish by ectopic expression of activin variants: the role of maternal activin. <i>Genes and Development</i> , 1994 , 8, 1448-62	12.6	90

168	Medaka spalt acts as a target gene of hedgehog signaling. <i>Development (Cambridge)</i> , 1997 , 124, 3147-3166		88
167	An eye on eye development. <i>Mechanisms of Development</i> , 2013 , 130, 347-58	1.7	79
166	Development of pigment-cup eyes in the polychaete <i>Platynereis dumerilii</i> and evolutionary conservation of larval eyes in Bilateria. <i>Development (Cambridge)</i> , 2002 , 129, 1143-54	6.6	76
165	Morphogenesis of the optic tectum in the medaka (<i>Oryzias latipes</i>): a morphological and molecular study, with special emphasis on cell proliferation. <i>Journal of Comparative Neurology</i> , 1999 , 413, 385-404	3.4	73
164	Zebrafish Radar: a new member of the TGF-beta superfamily defines dorsal regions of the neural plate and the embryonic retina. <i>Mechanisms of Development</i> , 1995 , 49, 223-34	1.7	73
163	Highly efficient zebrafish transgenesis mediated by the meganuclease I-SceI. <i>Methods in Cell Biology</i> , 2004 , 77, 381-401	1.8	71
162	Identification and lineage tracing of two populations of somatic gonadal precursors in medaka embryos. <i>Developmental Biology</i> , 2006 , 295, 678-88	3.1	70
161	Transposon-mediated enhancer trapping in medaka. <i>Gene</i> , 2003 , 322, 57-66	3.8	68
160	Trawler: de novo regulatory motif discovery pipeline for chromatin immunoprecipitation. <i>Nature Methods</i> , 2007 , 4, 563-5	21.6	66
159	The genomic and genetic toolbox of the teleost medaka (<i>Oryzias latipes</i>). <i>Genetics</i> , 2015 , 199, 905-18	4	65
158	The conditional medaka mutation <i>eyeless</i> uncouples patterning and morphogenesis of the eye. <i>Development (Cambridge)</i> , 2000 , 127, 1911-1919	6.6	65
157	ojoplano-mediated basal constriction is essential for optic cup morphogenesis. <i>Development (Cambridge)</i> , 2009 , 136, 2165-75	6.6	64
156	Fate restriction and multipotency in retinal stem cells. <i>Cell Stem Cell</i> , 2011 , 9, 553-62	18	63
155	Rx-Cre, a tool for inactivation of gene expression in the developing retina. <i>Genesis</i> , 2006 , 44, 361-3	1.9	59
154	TRIM25 has a dual function in the p53/Mdm2 circuit. <i>Oncogene</i> , 2015 , 34, 5729-38	9.2	58
153	Eye morphogenesis driven by epithelial flow into the optic cup facilitated by modulation of bone morphogenetic protein. <i>ELife</i> , 2015 , 4,	8.9	56
152	Six3 inactivation reveals its essential role for the formation and patterning of the vertebrate eye. <i>Development (Cambridge)</i> , 2002 , 129, 4057-63	6.6	56
151	Melanoma loss-of-function mutants in <i>Xiphophorus</i> caused by <i>Xmrk</i> -oncogene deletion and gene disruption by a transposable element. <i>Genetics</i> , 1999 , 153, 1385-94	4	55

150	Cell cycle control by homeobox genes in development and disease. <i>Seminars in Cell and Developmental Biology</i> , 2005 , 16, 449-60	7.5	54
149	Retinal neurogenesis. <i>Development (Cambridge)</i> , 2014 , 141, 241-4	6.6	53
148	The Xmrk receptor tyrosine kinase is activated in Xiphophorus malignant melanoma.. <i>EMBO Journal</i> , 1992 , 11, 4239-4246	13	53
147	Numb/Numbl-Opo antagonism controls retinal epithelium morphogenesis by regulating integrin endocytosis. <i>Developmental Cell</i> , 2012 , 23, 782-95	10.2	52
146	Instantaneous isotropic volumetric imaging of fast biological processes. <i>Nature Methods</i> , 2019 , 16, 497-506	5.0	51
145	The centriolar satellite protein SSX2IP promotes centrosome maturation. <i>Journal of Cell Biology</i> , 2013 , 202, 81-95	7.3	50
144	Shaping the vertebrate eye. <i>Current Opinion in Genetics and Development</i> , 2009 , 19, 511-7	4.9	50
143	A small-molecule FRET probe to monitor phospholipase A2 activity in cells and organisms. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 508-12	16.4	50
142	Characterization of the neural stem cell gene regulatory network identifies OLIG2 as a multifunctional regulator of self-renewal. <i>Genome Research</i> , 2015 , 25, 41-56	9.7	47
141	Medaka eyeless is the key factor linking retinal determination and eye growth. <i>Development (Cambridge)</i> , 2001 , 128, 4035-44	6.6	46
140	Integration of Hedgehog and BMP signalling by the engrailed2a gene in the zebrafish myotome. <i>Development (Cambridge)</i> , 2011 , 138, 755-65	6.6	45
139	Sox2, Tlx, Gli3, and Her9 converge on Rx2 to define retinal stem cells in vivo. <i>EMBO Journal</i> , 2015 , 34, 1572-88	13	44
138	Quantitative analysis of embryogenesis: a perspective for light sheet microscopy. <i>Developmental Cell</i> , 2012 , 23, 1111-20	10.2	43
137	Golden GATEway cloning--a combinatorial approach to generate fusion and recombination constructs. <i>PLoS ONE</i> , 2013 , 8, e76117	3.7	43
136	Zebrafish and medaka: model organisms for a comparative developmental approach of brain asymmetry. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009 , 364, 991-1003	5.8	43
135	Meganuclease and transposon mediated transgenesis in medaka. <i>Genome Biology</i> , 2007 , 8 Suppl 1, S10	18.3	43
134	Large-scale expression screening by automated whole-mount in situ hybridization. <i>Mechanisms of Development</i> , 2004 , 121, 971-6	1.7	43
133	Graded interference with FGF signalling reveals its dorsoventral asymmetry at the mid-hindbrain boundary. <i>Development (Cambridge)</i> , 1999 , 126, 5659-5667	6.6	43

132	Polychaete trunk neuroectoderm converges and extends by mediolateral cell intercalation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 2727-32	11.5	42
131	Analysis of cellular behavior and cytoskeletal dynamics reveal a constriction mechanism driving optic cup morphogenesis. <i>ELife</i> , 2016 , 5,	8.9	42
130	Exclusive multipotency and preferential asymmetric divisions in post-embryonic neural stem cells of the fish retina. <i>Development (Cambridge)</i> , 2014 , 141, 3472-82	6.6	41
129	Efficient single-copy HDR by 5Rmodified long dsDNA donors. <i>ELife</i> , 2018 , 7,	8.9	41
128	Medaka spalt acts as a target gene of hedgehog signaling. <i>Development (Cambridge)</i> , 1997 , 124, 3147-566.6		41
127	Dynamics of in vivo ASC speck formation. <i>Journal of Cell Biology</i> , 2017 , 216, 2891-2909	7.3	40
126	Nlcam modulates midline convergence during anterior neural plate morphogenesis. <i>Developmental Biology</i> , 2010 , 339, 14-25	3.1	40
125	Digital scanned laser light-sheet fluorescence microscopy (DSLM) of zebrafish and Drosophila embryonic development. <i>Cold Spring Harbor Protocols</i> , 2011 , 2011, 1235-43	1.2	40
124	A screen for co-factors of Six3. <i>Mechanisms of Development</i> , 2002 , 117, 103-13	1.7	40
123	Comparative epigenomics in distantly related teleost species identifies conserved cis-regulatory nodes active during the vertebrate phylotypic period. <i>Genome Research</i> , 2014 , 24, 1075-85	9.7	38
122	In vivo validation of a computationally predicted conserved Ath5 target gene set. <i>PLoS Genetics</i> , 2007 , 3, 1661-71	6	38
121	The discovery, positioning and verification of a set of transcription-associated motifs in vertebrates. <i>Genome Biology</i> , 2005 , 6, R104	18.3	38
120	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> . <i>Development (Cambridge)</i> , 1999 , 126, 3769-3779	6.6	38
119	Birth and life of tissue macrophages and their migration in embryogenesis and inflammation in medaka. <i>Journal of Leukocyte Biology</i> , 2007 , 81, 263-71	6.5	37
118	Recent advances in meganuclease-and transposon-mediated transgenesis of medaka and zebrafish. <i>Methods in Molecular Biology</i> , 2008 , 461, 521-39	1.4	36
117	New genes in the evolution of the neural crest differentiation program. <i>Genome Biology</i> , 2007 , 8, R36	18.3	36
116	Mutant analyses reveal different functions of <i>fgfr1</i> in medaka and zebrafish despite conserved ligand-receptor relationships. <i>Developmental Biology</i> , 2007 , 304, 326-37	3.1	35
115	Ligand-dependent tumor induction in medakafish embryos by a <i>Xmrk</i> receptor tyrosine kinase transgene. <i>Oncogene</i> , 1994 , 9, 1517-25	9.2	35

114	Genomic and phenotypic characterization of a wild medaka population: towards the establishment of an isogenic population genetic resource in fish. <i>G3: Genes, Genomes, Genetics</i> , 2014 , 4, 433-45	3.2	34
113	Medial floor plate formation in zebrafish consists of two phases and requires trunk-derived Midkine-a. <i>Genes and Development</i> , 2005 , 19, 897-902	12.6	33
112	Cavefish eye loss in response to an early block in retinal differentiation progression. <i>Development (Cambridge)</i> , 2015 , 142, 743-752	6.6	32
111	Mutations affecting liver development and function in Medaka, <i>Oryzias latipes</i> , screened by multiple criteria. <i>Mechanisms of Development</i> , 2004 , 121, 791-802	1.7	32
110	Identification, visualization and clonal analysis of intestinal stem cells in fish. <i>Development (Cambridge)</i> , 2016 , 143, 3470-3480	6.6	31
109	4DXpress: a database for cross-species expression pattern comparisons. <i>Nucleic Acids Research</i> , 2008 , 36, D847-53	20.1	31
108	Introducing Biomedisa as an open-source online platform for biomedical image segmentation. <i>Nature Communications</i> , 2020 , 11, 5577	17.4	30
107	ArhGEF18 regulates RhoA-Rock2 signaling to maintain neuro-epithelial apico-basal polarity and proliferation. <i>Development (Cambridge)</i> , 2013 , 140, 2787-97	6.6	30
106	Automated high-throughput heartbeat quantification in medaka and zebrafish embryos under physiological conditions. <i>Scientific Reports</i> , 2020 , 10, 2046	4.9	29
105	Tyrosine phosphorylation of LRP6 by Src and Fer inhibits Wnt/ β catenin signalling. <i>EMBO Reports</i> , 2014 , 15, 1254-67	6.5	29
104	Ancestry of Photic and Mechanic Sensation?. <i>Science</i> , 2005 , 308, 1113-1114	33.3	29
103	Activating the regenerative potential of Müller glia cells in a regeneration-deficient retina. <i>ELife</i> , 2018 , 7,	8.9	27
102	Genetic and functional insights into the fractal structure of the heart. <i>Nature</i> , 2020 , 584, 589-594	50.4	26
101	The conditional medaka mutation <i>eyeless</i> uncouples patterning and morphogenesis of the eye. <i>Development (Cambridge)</i> , 2000 , 127, 1911-9	6.6	26
100	A global survey identifies novel upstream components of the Ath5 neurogenic network. <i>Genome Biology</i> , 2009 , 10, R92	18.3	25
99	Efficient activation of gene expression using a heat-shock inducible Gal4/Vp16-UAS system in medaka. <i>BMC Biotechnology</i> , 2004 , 4, 26	3.5	24
98	Five Nkx5 genes show differential expression patterns in anlagen of sensory organs in medaka: insight into the evolution of the gene family. <i>Development Genes and Evolution</i> , 2001 , 211, 338-49	1.8	24
97	Efficient site-specific transgenesis and enhancer activity tests in medaka using PhiC31 integrase. <i>Development (Cambridge)</i> , 2013 , 140, 4287-95	6.6	23

96	Autocrine stimulation of the Xmrk receptor tyrosine kinase in Xiphophorus melanoma cells and identification of a source for the physiological ligand.. <i>Journal of Biological Chemistry</i> , 1994 , 269, 10423-10430	5.4	23
95	Deletion of a kinesin I motor unmasks a mechanism of homeostatic branching control by neurotrophin-3. <i>ELife</i> , 2015 , 4,	8.9	22
94	Tumor angiogenesis is caused by single melanoma cells in a manner dependent on reactive oxygen species and NF- κ B. <i>Journal of Cell Science</i> , 2013 , 126, 3862-72	5.3	21
93	Identification of starmaker-like in medaka as a putative target gene of Pax2 in the otic vesicle. <i>Developmental Dynamics</i> , 2009 , 238, 2860-6	2.9	20
92	The homeobox gene Xbh1 cooperates with proneural genes to specify ganglion cell fate within the Xenopus neural retina. <i>Development (Cambridge)</i> , 2004 , 131, 2305-15	6.6	20
91	MEPD: a resource for medaka gene expression patterns. <i>Bioinformatics</i> , 2005 , 21, 3195-7	7.2	20
90	An in situ hybridization screen for the rapid isolation of differentially expressed genes. <i>Development Genes and Evolution</i> , 2000 , 210, 28-33	1.8	20
89	Mutations affecting retina development in Medaka. <i>Mechanisms of Development</i> , 2004 , 121, 703-14	1.7	19
88	De novo neurogenesis by targeted expression of atoh7 to Müller glia cells. <i>Development (Cambridge)</i> , 2016 , 143, 1874-83	6.6	19
87	Noninvasive In Toto Imaging of the Thymus Reveals Heterogeneous Migratory Behavior of Developing T Cells. <i>Journal of Immunology</i> , 2015 , 195, 2177-86	5.3	18
86	MEPD: a Medaka gene expression pattern database. <i>Nucleic Acids Research</i> , 2003 , 31, 72-4	20.1	18
85	Purification and cDNA-derived sequence of adenylosuccinate synthetase from Dictyostelium discoideum. <i>Journal of Biological Chemistry</i> , 1991 , 266, 2480-5	5.4	18
84	Autocrine stimulation of the Xmrk receptor tyrosine kinase in Xiphophorus melanoma cells and identification of a source for the physiological ligand. <i>Journal of Biological Chemistry</i> , 1994 , 269, 10423-30	5.4	18
83	Deep learning-enhanced light-field imaging with continuous validation. <i>Nature Methods</i> , 2021 , 18, 557-563	6.6	18
82	TGF β -facilitated optic fissure fusion and the role of bone morphogenetic protein antagonism. <i>Open Biology</i> , 2018 , 8,	7	17
81	Close association of olfactory placode precursors and cranial neural crest cells does not predestine cell mixing. <i>Developmental Dynamics</i> , 2012 , 241, 1143-54	2.9	17
80	The BMP-related protein radar: a maintenance factor for dorsal neuroectoderm cells?. <i>Mechanisms of Development</i> , 1999 , 85, 15-25	1.7	16
79	Analysis of an esterase linked to a locus involved in the regulation of the melanoma oncogene and isolation of polymorphic marker sequences in Xiphophorus. <i>Biochemical Genetics</i> , 1991 , 29, 509-24	2.4	16

78	Quantitative morphometric analysis of adult teleost fish by X-ray computed tomography. <i>Scientific Reports</i> , 2018 , 8, 16531	4.9	16
77	The PAR complex controls the spatiotemporal dynamics of F-actin and the MTOC in directionally migrating leukocytes. <i>Journal of Cell Science</i> , 2014 , 127, 4381-95	5.3	15
76	Genetic dissection of the formation of the forebrain in Medaka, <i>Oryzias latipes</i> . <i>Mechanisms of Development</i> , 2004 , 121, 673-85	1.7	15
75	Mutations affecting retinotectal axonal pathfinding in Medaka, <i>Oryzias latipes</i> . <i>Mechanisms of Development</i> , 2004 , 121, 715-28	1.7	15
74	Cloning and expression of medaka Dachshund. <i>Mechanisms of Development</i> , 2002 , 112, 203-6	1.7	15
73	Using Trawler_standalone to discover overrepresented motifs in DNA and RNA sequences derived from various experiments including chromatin immunoprecipitation. <i>Nature Protocols</i> , 2010 , 5, 323-34	18.8	14
72	Mutations affecting somite formation in the Medaka (<i>Oryzias latipes</i>). <i>Mechanisms of Development</i> , 2004 , 121, 659-71	1.7	14
71	Characterization and developmentally regulated expression of four annexins in the killifish medaka. <i>DNA and Cell Biology</i> , 1998 , 17, 835-47	3.6	14
70	Gastrulation in an annual killifish: Molecular and cellular events during germ layer formation in <i>Austrolebias</i> . <i>Developmental Dynamics</i> , 2017 , 246, 812-826	2.9	13
69	Enhanced in vivo-imaging in medaka by optimized anaesthesia, fluorescent protein selection and removal of pigmentation. <i>PLoS ONE</i> , 2019 , 14, e0212956	3.7	13
68	Rapid identification of PAX2/5/8 direct downstream targets in the otic vesicle by combinatorial use of bioinformatics tools. <i>Genome Biology</i> , 2008 , 9, R145	18.3	13
67	Rapid chromosomal assignment of medaka mutants by bulked segregant analysis. <i>Gene</i> , 2004 , 329, 159-65	5.5	13
66	The Xmrk receptor tyrosine kinase is activated in <i>Xiphophorus</i> malignant melanoma. <i>EMBO Journal</i> , 1992 , 11, 4239-46	13	13
65	iDamIDseq and iDEAR: an improved method and computational pipeline to profile chromatin-binding proteins. <i>Development (Cambridge)</i> , 2016 , 143, 4272-4278	6.6	13
64	Deltr: Digital embryo lineage tree reconstructor 2011 ,		12
63	Loss of maternal Smad5 in zebrafish embryos affects patterning and morphogenesis of optic primordia. <i>Developmental Dynamics</i> , 2003 , 227, 128-33	2.9	12
62	Combining computational prediction of cis-regulatory elements with a new enhancer assay to efficiently label neuronal structures in the medaka fish. <i>PLoS ONE</i> , 2011 , 6, e19747	3.7	11
61	Retinal stem cells modulate proliferative parameters to coordinate post-embryonic morphogenesis in the eye of fish. <i>ELife</i> , 2019 , 8,	8.9	11

60	Characterization of teleost Mdga1 using a gene-trap approach in medaka (<i>Oryzias latipes</i>). <i>Genesis</i> , 2009 , 47, 505-13	1.9	10
59	RFLP for an EGF-receptor related gene associated with the melanoma oncogene locus of <i>Xiphophorus maculatus</i> . <i>Nucleic Acids Research</i> , 1988 , 16, 7212	20.1	10
58	Bifacial stem cell niches in fish and plants. <i>Current Opinion in Genetics and Development</i> , 2017 , 45, 28-33	4.9	9
57	Cis-regulatory properties of medaka synexpression groups. <i>Development (Cambridge)</i> , 2012 , 139, 917-286.6		9
56	An inexpensive and versatile computer-controlled PCR machine using a Peltier Element as a thermoelectric heat pump. <i>Trends in Genetics</i> , 1989 , 5, 202-3	8.5	9
55	Left/right asymmetric collective migration of parapineal cells is mediated by focal FGF signaling activity in leading cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E9812-E9821	11.5	9
54	A novel mammal-specific three partite enhancer element regulates node and notochord-specific Noto expression. <i>PLoS ONE</i> , 2012 , 7, e47785	3.7	8
53	In vivo time-lapse imaging in medaka--n-heptanol blocks contractile rhythmical movements. <i>Mechanisms of Development</i> , 2004 , 121, 965-70	1.7	8
52	Analysis of heterologous and homologous promoters and enhancers in vitro and in vivo by gene transfer into Japanese medaka (<i>Oryzias latipes</i>) <i>Xiphophorus</i> . <i>Molecular Marine Biology and Biotechnology</i> , 1992 , 1, 326-37		8
51	Notch signalling patterns retinal composition by regulating during post-embryonic growth. <i>Development (Cambridge)</i> , 2018 , 145,	6.6	8
50	MEPD: medaka expression pattern database, genes and more. <i>Nucleic Acids Research</i> , 2016 , 44, D819-21	20.1	7
49	Current status of medaka genetics and genomics. The Medaka Genome Initiative (MGI). <i>Methods in Cell Biology</i> , 2004 , 77, 173-99	1.8	7
48	An eye on light-sheet microscopy. <i>Methods in Cell Biology</i> , 2016 , 133, 105-23	1.8	7
47	Novel components of germline sex determination acting downstream of foxl3 in medaka. <i>Developmental Biology</i> , 2019 , 445, 80-89	3.1	7
46	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> . <i>Development (Cambridge)</i> , 1999 , 126, 3769-79	6.6	7
45	Graded interference with FGF signalling reveals its dorsoventral asymmetry at the mid-hindbrain boundary. <i>Development (Cambridge)</i> , 1999 , 126, 5659-67	6.6	7
44	Expression of the novel maternal centrosome assembly factor <i>Wdr8</i> is required for vertebrate embryonic mitoses. <i>Nature Communications</i> , 2017 , 8, 14090	17.4	6
43	Loss and Rebirth of the Animal Microtubule Organizing Center: How Maternal Expression of Centrosomal Proteins Cooperates with the Sperm Centriole in Zygotic Centrosome Reformation. <i>BioEssays</i> , 2018 , 40, e1700135	4.1	6

42	Lineage tracing of col10a1 cells identifies distinct progenitor populations for osteoblasts and joint cells in the regenerating fin of medaka (<i>Oryzias latipes</i>). <i>Developmental Biology</i> , 2019 , 455, 85-99	3.1	6
41	Differential responsiveness of distinct retinal domains to Atoh7. <i>Mechanisms of Development</i> , 2014 , 133, 218-29	1.7	6
40	GSD: a genetic screen database. <i>Mechanisms of Development</i> , 2004 , 121, 959-63	1.7	6
39	Fish primary embryonic pluripotent cells assemble into retinal tissue mirroring in vivo early eye development. <i>ELife</i> , 2021 , 10,	8.9	6
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35	Morphogenesis and axis specification occur in parallel during optic cup and optic fissure formation, differentially modulated by BMP and Wnt. <i>Open Biology</i> , 2019 , 9, 180179	7	4
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27	Genomic variations and epigenomic landscape of the Medaka Inbred Kiyosu-Karlsruhe (MIKK) panel		3
26	Interactive Similarity Analysis and Error Detection in Large Tree Collections. <i>Mathematics and Visualization</i> , 2016 , 287-307	0.6	2
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15	Enhanced in vivo-imaging in fish by optimized anaesthesia, fluorescent protein selection and removal of pigmentation		1
14	Optic fissure margin morphogenesis sets the stage for consecutive optic fissure fusion, pioneered by a distinct subset of margin cells using a hyaloid vessel as scaffold		1
13	Igf signalling uncouples retina growth from body size by modulating progenitor cell division		1
12	TGF β mediated structural remodeling facilitates optic fissure fusion and the necessity of BMP antagonism in this process		1
11	The Medaka Inbred Kiyosu-Karlsruhe (MIKK) Panel		1
10	Fish primary embryonic stem cells self-assemble into retinal tissue mirroring in vivo early eye development		1
9	Genomic variations and epigenomic landscape of the Medaka Inbred Kiyosu-Karlsruhe (MIKK) panel.. <i>Genome Biology</i> , 2022 , 23, 58	18.3	1
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