

# Joachim Wittbrodt

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

203  
papers

24,340<sup>0</sup>  
citations

54  
h-index

155  
g-index

237  
ext. papers

29,394  
ext. citations

8.8  
avg, IF

8.2  
L-index

#	Paper	IF	Citations
203	Antigen-Presenting Cells and T Cells Interact in a Specific Area of the Intestinal Mucosa Defined by the Ccl25-Ccr9 Axis in Medaka.. <i>Frontiers in Immunology</i> , <b>2022</b> , 13, 812899	8.4	1
202	The Medaka Inbred Kiyosu-Karlsruhe (MIKK) panel.. <i>Genome Biology</i> , <b>2022</b> , 23, 59	18.3	0
201	Genomic variations and epigenomic landscape of the Medaka Inbred Kiyosu-Karlsruhe (MIKK) panel.. <i>Genome Biology</i> , <b>2022</b> , 23, 58	18.3	1
200	Boosting targeted genome editing using the hei-tag.. <i>ELife</i> , <b>2022</b> , 11,	8.9	2
199	Precise functional analysis of DNA variants with base editing using ACEofBASEs target prediction.. <i>ELife</i> , <b>2022</b> , 11,	8.9	2
198	Notch1 deficiency alters the migratory behavior of developing T cells and calcium signaling in the thymus of medaka. <i>European Journal of Immunology</i> , <b>2021</b> ,	6.1	1
197	Igf signaling couples retina growth with body growth by modulating progenitor cell division. <i>Development (Cambridge)</i> , <b>2021</b> , 148,	6.6	3
196	Deep learning-enhanced light-field imaging with continuous validation. <i>Nature Methods</i> , <b>2021</b> , 18, 557-563	6.6	18
195	NT cell lineage outcome is regulated by intrathymic cell localization and environmental signals. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	2
194	Fish primary embryonic pluripotent cells assemble into retinal tissue mirroring in vivo early eye development. <i>ELife</i> , <b>2021</b> , 10,	8.9	6
193	The C-Mannosylome of Human Induced Pluripotent Stem Cells Implies a Role for ADAMTS16 C-Mannosylation in Eye Development. <i>Molecular and Cellular Proteomics</i> , <b>2021</b> , 20, 100092	7.6	4
192	In vivo identification and validation of novel potential predictors for human cardiovascular diseases.. <i>PLoS ONE</i> , <b>2021</b> , 16, e0261572	3.7	1
191	Introducing Biomedisa as an open-source online platform for biomedical image segmentation. <i>Nature Communications</i> , <b>2020</b> , 11, 5577	17.4	30
190	Automated high-throughput heartbeat quantification in medaka and zebrafish embryos under physiological conditions. <i>Scientific Reports</i> , <b>2020</b> , 10, 2046	4.9	29
189	Pcdh18a regulates endocytosis of E-cadherin during axial mesoderm development in zebrafish. <i>Histochemistry and Cell Biology</i> , <b>2020</b> , 154, 463-480	2.4	2
188	Genetic and functional insights into the fractal structure of the heart. <i>Nature</i> , <b>2020</b> , 584, 589-594	50.4	26
187	Morphogenesis and axis specification occur in parallel during optic cup and optic fissure formation, differentially modulated by BMP and Wnt. <i>Open Biology</i> , <b>2019</b> , 9, 180179	7	4

186	, a divergent Yap/Taz family member, cooperates with in survival and morphogenesis via common transcriptional targets. <i>Development (Cambridge)</i> , <b>2019</b> , 146,	6.6	4
185	Instantaneous isotropic volumetric imaging of fast biological processes. <i>Nature Methods</i> , <b>2019</b> , 16, 497-506	10.6	51
184	Swift Large-scale Examination of Directed Genome Editing. <i>PLoS ONE</i> , <b>2019</b> , 14, e0213317	3.7	5
183	Enhanced in vivo-imaging in medaka by optimized anaesthesia, fluorescent protein selection and removal of pigmentation. <i>PLoS ONE</i> , <b>2019</b> , 14, e0212956	3.7	13
182	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> , <b>2019</b> , 455, 85-99	3.1	6
181	Retinal stem cells modulate proliferative parameters to coordinate post-embryonic morphogenesis in the eye of fish. <i>ELife</i> , <b>2019</b> , 8,	8.9	11
180	Novel components of germline sex determination acting downstream of foxl3 in medaka. <i>Developmental Biology</i> , <b>2019</b> , 445, 80-89	3.1	7
179	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> , <b>2018</b> , 40, e1700135	4.1	6
178	TGF $\beta$ facilitated optic fissure fusion and the role of bone morphogenetic protein antagonism. <i>Open Biology</i> , <b>2018</b> , 8,	7	17
177	Efficient single-copy HDR by 5Rmodified long dsDNA donors. <i>ELife</i> , <b>2018</b> , 7,	8.9	41
176	Quantitative morphometric analysis of adult teleost fish by X-ray computed tomography. <i>Scientific Reports</i> , <b>2018</b> , 8, 16531	4.9	16
175	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> , <b>2018</b> , 115, E9812-E9821	11.5	9
174	Notch signalling patterns retinal composition by regulating during post-embryonic growth. <i>Development (Cambridge)</i> , <b>2018</b> , 145,	6.6	8
173	Activating the regenerative potential of Müller glia cells in a regeneration-deficient retina. <i>ELife</i> , <b>2018</b> , 7,	8.9	27
172	Expression of the novel maternal centrosome assembly factor Wdr8 is required for vertebrate embryonic mitoses. <i>Nature Communications</i> , <b>2017</b> , 8, 14090	17.4	6
171	Bifacial stem cell niches in fish and plants. <i>Current Opinion in Genetics and Development</i> , <b>2017</b> , 45, 28-33	4.9	9
170	Gastrulation in an annual killifish: Molecular and cellular events during germ layer formation in <i>Austrolebias</i> . <i>Developmental Dynamics</i> , <b>2017</b> , 246, 812-826	2.9	13
169	Dynamics of in vivo ASC speck formation. <i>Journal of Cell Biology</i> , <b>2017</b> , 216, 2891-2909	7.3	40

168	Generation of DNA Constructs Using the Golden GATEway Cloning Method. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1472, 157-68	1.4	
167	Identification, visualization and clonal analysis of intestinal stem cells in fish. <i>Development (Cambridge)</i> , <b>2016</b> , 143, 3470-3480	6.6	31
166	Interactive Similarity Analysis and Error Detection in Large Tree Collections. <i>Mathematics and Visualization</i> , <b>2016</b> , 287-307	0.6	2
165	MEPD: medaka expression pattern database, genes and more. <i>Nucleic Acids Research</i> , <b>2016</b> , 44, D819-21	20.1	7
164	Analysis of cellular behavior and cytoskeletal dynamics reveal a constriction mechanism driving optic cup morphogenesis. <i>ELife</i> , <b>2016</b> , 5,	8.9	42
163	De novo neurogenesis by targeted expression of atoh7 to Müller glia cells. <i>Development (Cambridge)</i> , <b>2016</b> , 143, 1874-83	6.6	19
162	An eye on light-sheet microscopy. <i>Methods in Cell Biology</i> , <b>2016</b> , 133, 105-23	1.8	7
161	iDamIDseq and iDEAR: an improved method and computational pipeline to profile chromatin-binding proteins. <i>Development (Cambridge)</i> , <b>2016</b> , 143, 4272-4278	6.6	13
160	TRIM25 has a dual function in the p53/Mdm2 circuit. <i>Oncogene</i> , <b>2015</b> , 34, 5729-38	9.2	58
159	Sox2, Tlx, Gli3, and Her9 converge on Rx2 to define retinal stem cells in vivo. <i>EMBO Journal</i> , <b>2015</b> , 34, 1572-88	13	44
158	The genomic and genetic toolbox of the teleost medaka ( <i>Oryzias latipes</i> ). <i>Genetics</i> , <b>2015</b> , 199, 905-18	4	65
157	Noninvasive In Toto Imaging of the Thymus Reveals Heterogeneous Migratory Behavior of Developing T Cells. <i>Journal of Immunology</i> , <b>2015</b> , 195, 2177-86	5.3	18
156	Characterization of the neural stem cell gene regulatory network identifies OLIG2 as a multifunctional regulator of self-renewal. <i>Genome Research</i> , <b>2015</b> , 25, 41-56	9.7	47
155	Expression screening using a Medaka cDNA library identifies evolutionarily conserved regulators of the p53/Mdm2 pathway. <i>BMC Biotechnology</i> , <b>2015</b> , 15, 92	3.5	3
154	CCTop: An Intuitive, Flexible and Reliable CRISPR/Cas9 Target Prediction Tool. <i>PLoS ONE</i> , <b>2015</b> , 10, e0124633	4.33	493
153	Handling Permutation in Sequence Comparison: Genome-Wide Enhancer Prediction in Vertebrates by a Novel Non-Linear Alignment Scoring Principle. <i>PLoS ONE</i> , <b>2015</b> , 10, e0141487	3.7	0
152	Cavefish eye loss in response to an early block in retinal differentiation progression. <i>Development (Cambridge)</i> , <b>2015</b> , 142, 743-752	6.6	32
151	Deletion of a kinesin I motor unmask a mechanism of homeostatic branching control by neurotrophin-3. <i>ELife</i> , <b>2015</b> , 4,	8.9	22

150	Eye morphogenesis driven by epithelial flow into the optic cup facilitated by modulation of bone morphogenetic protein. <i>ELife</i> , <b>2015</b> , 4,	8.9	56
149	Hold your breath!. <i>ELife</i> , <b>2015</b> , 4, e12523	8.9	
148	Comparative epigenomics in distantly related teleost species identifies conserved cis-regulatory nodes active during the vertebrate phylotypic period. <i>Genome Research</i> , <b>2014</b> , 24, 1075-85	9.7	38
147	Retinal neurogenesis. <i>Development (Cambridge)</i> , <b>2014</b> , 141, 241-4	6.6	53
146	Tyrosine phosphorylation of LRP6 by Src and Fer inhibits Wnt/ $\beta$ -catenin signalling. <i>EMBO Reports</i> , <b>2014</b> , 15, 1254-67	6.5	29
145	Distinct roles for BAI1 and TIM-4 in the engulfment of dying neurons by microglia. <i>Nature Communications</i> , <b>2014</b> , 5, 4046	17.4	123
144	Differential responsiveness of distinct retinal domains to Atoh7. <i>Mechanisms of Development</i> , <b>2014</b> , 133, 218-29	1.7	6
143	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> , <b>2014</b> , 4, 433-45	3.2	34
142	The PAR complex controls the spatiotemporal dynamics of F-actin and the MTOC in directionally migrating leukocytes. <i>Journal of Cell Science</i> , <b>2014</b> , 127, 4381-95	5.3	15
141	Exclusive multipotency and preferential asymmetric divisions in post-embryonic neural stem cells of the fish retina. <i>Development (Cambridge)</i> , <b>2014</b> , 141, 3472-82	6.6	41
140	An eye on eye development. <i>Mechanisms of Development</i> , <b>2013</b> , 130, 347-58	1.7	79
139	Tumor angiogenesis is caused by single melanoma cells in a manner dependent on reactive oxygen species and NF- $\kappa$ B. <i>Journal of Cell Science</i> , <b>2013</b> , 126, 3862-72	5.3	21
138	Epigenomic enhancer annotation reveals a key role for NFIX in neural stem cell quiescence. <i>Genes and Development</i> , <b>2013</b> , 27, 1769-86	12.6	126
137	Efficient site-specific transgenesis and enhancer activity tests in medaka using PhiC31 integrase. <i>Development (Cambridge)</i> , <b>2013</b> , 140, 4287-95	6.6	23
136	The centriolar satellite protein SSX2IP promotes centrosome maturation. <i>Journal of Cell Biology</i> , <b>2013</b> , 202, 81-95	7.3	50
135	ArhGEF18 regulates RhoA-Rock2 signaling to maintain neuro-epithelial apico-basal polarity and proliferation. <i>Development (Cambridge)</i> , <b>2013</b> , 140, 2787-97	6.6	30
134	The medaka mutation tintachina sheds light on the evolution of V-ATPase B subunits in vertebrates. <i>Scientific Reports</i> , <b>2013</b> , 3, 3217	4.9	2
133	Golden GATEway cloning--a combinatorial approach to generate fusion and recombination constructs. <i>PLoS ONE</i> , <b>2013</b> , 8, e76117	3.7	43

132	Quantitative analysis of embryogenesis: a perspective for light sheet microscopy. <i>Developmental Cell</i> , <b>2012</b> , 23, 1111-20	10.2	43
131	An integrated encyclopedia of DNA elements in the human genome. <i>Nature</i> , <b>2012</b> , 489, 57-74	50.4	11449
130	Learning to segment dense cell nuclei with shape prior <b>2012</b> ,		1
129	Similarity analysis of cell movements in video microscopy <b>2012</b> ,		2
128	Numb/Numbl-Opo antagonism controls retinal epithelium morphogenesis by regulating integrin endocytosis. <i>Developmental Cell</i> , <b>2012</b> , 23, 782-95	10.2	52
127	Ubiquitin-specific protease-like 1 (USPL1) is a SUMO isopeptidase with essential, non-catalytic functions. <i>EMBO Reports</i> , <b>2012</b> , 13, 930-8	6.5	105
126	A novel mammal-specific three partite enhancer element regulates node and notochord-specific Noto expression. <i>PLoS ONE</i> , <b>2012</b> , 7, e47785	3.7	8
125	Close association of olfactory placode precursors and cranial neural crest cells does not predestine cell mixing. <i>Developmental Dynamics</i> , <b>2012</b> , 241, 1143-54	2.9	17
124	Integration of Hedgehog and BMP signalling by the engrailed2a gene in the zebrafish myotome. <i>Development (Cambridge)</i> , <b>2012</b> , 139, 1885-1885	6.6	3
123	Cis-regulatory properties of medaka synexpression groups. <i>Development (Cambridge)</i> , <b>2012</b> , 139, 917-286.6		9
122	Fate restriction and multipotency in retinal stem cells. <i>Cell Stem Cell</i> , <b>2011</b> , 9, 553-62	18	63
121	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> , <b>2011</b> , 6, e19747	3.7	11
120	Integration of Hedgehog and BMP signalling by the engrailed2a gene in the zebrafish myotome. <i>Development (Cambridge)</i> , <b>2011</b> , 138, 755-65	6.6	45
119	Digital scanned laser light-sheet fluorescence microscopy (DSLIM) of zebrafish and Drosophila embryonic development. <i>Cold Spring Harbor Protocols</i> , <b>2011</b> , 2011, 1235-43	1.2	40
118	Deltr: Digital embryo lineage tree reconstructor <b>2011</b> ,		12
117	One for all--a highly efficient and versatile method for fluorescent immunostaining in fish embryos. <i>PLoS ONE</i> , <b>2011</b> , 6, e19713	3.7	98
116	Fast, high-contrast imaging of animal development with scanned light sheet-based structured-illumination microscopy. <i>Nature Methods</i> , <b>2010</b> , 7, 637-42	21.6	411
115	Using Trawler_standalone to discover overrepresented motifs in DNA and RNA sequences derived from various experiments including chromatin immunoprecipitation. <i>Nature Protocols</i> , <b>2010</b> , 5, 323-34	18.8	14

114	P109. Quantitative trait loci analysis in the Medaka ( <i>Oryzias latipes</i> ) species. <i>Differentiation</i> , <b>2010</b> , 80, S53	3.5	
113	Nlcam modulates midline convergence during anterior neural plate morphogenesis. <i>Developmental Biology</i> , <b>2010</b> , 339, 14-25	3.1	40
112	ojoplano-mediated basal constriction is essential for optic cup morphogenesis. <i>Development (Cambridge)</i> , <b>2009</b> , 136, 2165-75	6.6	64
111	Zebrafish and medaka: model organisms for a comparative developmental approach of brain asymmetry. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2009</b> , 364, 991-1003	5.8	43
110	Cloning of mouse ojoplano, a reticular cytoplasmic protein expressed during embryonic development. <i>Gene Expression Patterns</i> , <b>2009</b> , 9, 562-7	1.5	5
109	Identification of starmaker-like in medaka as a putative target gene of Pax2 in the otic vesicle. <i>Developmental Dynamics</i> , <b>2009</b> , 238, 2860-6	2.9	20
108	Characterization of teleost Mdga1 using a gene-trap approach in medaka ( <i>Oryzias latipes</i> ). <i>Genesis</i> , <b>2009</b> , 47, 505-13	1.9	10
107	Shaping the vertebrate eye. <i>Current Opinion in Genetics and Development</i> , <b>2009</b> , 19, 511-7	4.9	50
106	A global survey identifies novel upstream components of the Ath5 neurogenic network. <i>Genome Biology</i> , <b>2009</b> , 10, R92	18.3	25
105	Recent advances in meganuclease-and transposon-mediated transgenesis of medaka and zebrafish. <i>Methods in Molecular Biology</i> , <b>2008</b> , 461, 521-39	1.4	36
104	Reconstruction of zebrafish early embryonic development by scanned light sheet microscopy. <i>Science</i> , <b>2008</b> , 322, 1065-9	33.3	1075
103	Analysis of mammalian gene batteries reveals both stable ancestral cores and highly dynamic regulatory sequences. <i>Genome Biology</i> , <b>2008</b> , 9, R172	18.3	5
102	Rapid identification of PAX2/5/8 direct downstream targets in the otic vesicle by combinatorial use of bioinformatics tools. <i>Genome Biology</i> , <b>2008</b> , 9, R145	18.3	13
101	4DXpress: a database for cross-species expression pattern comparisons. <i>Nucleic Acids Research</i> , <b>2008</b> , 36, D847-53	20.1	31
100	Trawler: de novo regulatory motif discovery pipeline for chromatin immunoprecipitation. <i>Nature Methods</i> , <b>2007</b> , 4, 563-5	21.6	66
99	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> , <b>2007</b> , 104, 2727-32	11.5	42
98	Birth and life of tissue macrophages and their migration in embryogenesis and inflammation in medaka. <i>Journal of Leukocyte Biology</i> , <b>2007</b> , 81, 263-71	6.5	37
97	In vivo validation of a computationally predicted conserved Ath5 target gene set. <i>PLoS Genetics</i> , <b>2007</b> , 3, 1661-71	6	38

96	Mutant analyses reveal different functions of fgfr1 in medaka and zebrafish despite conserved ligand-receptor relationships. <i>Developmental Biology</i> , <b>2007</b> , 304, 326-37	3.1	35
95	New genes in the evolution of the neural crest differentiation program. <i>Genome Biology</i> , <b>2007</b> , 8, R36	18.3	36
94	Meganuclease and transposon mediated transgenesis in medaka. <i>Genome Biology</i> , <b>2007</b> , 8 Suppl 1, S10	18.3	43
93	A small-molecule FRET probe to monitor phospholipase A2 activity in cells and organisms. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 508-12	16.4	50
92	Rx-Cre, a tool for inactivation of gene expression in the developing retina. <i>Genesis</i> , <b>2006</b> , 44, 361-3	1.9	59
91	Individual cell migration serves as the driving force for optic vesicle evagination. <i>Science</i> , <b>2006</b> , 313, 1130-4	33.3	143
90	Differences in vertebrate microRNA expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 14385-9	11.5	212
89	Identification and lineage tracing of two populations of somatic gonadal precursors in medaka embryos. <i>Developmental Biology</i> , <b>2006</b> , 295, 678-88	3.1	70
88	Transgenesis in fish: efficient selection of transgenic fish by co-injection with a fluorescent reporter construct. <i>Nature Protocols</i> , <b>2006</b> , 1, 1133-9	18.8	105
87	Ancestry of Photic and Mechanic Sensation?. <i>Science</i> , <b>2005</b> , 308, 1113-1114	33.3	29
86	Differentiation of the vertebrate retina is coordinated by an FGF signaling center. <i>Developmental Cell</i> , <b>2005</b> , 8, 565-74	10.2	143
85	Cell cycle control by homeobox genes in development and disease. <i>Seminars in Cell and Developmental Biology</i> , <b>2005</b> , 16, 449-60	7.5	54
84	The discovery, positioning and verification of a set of transcription-associated motifs in vertebrates. <i>Genome Biology</i> , <b>2005</b> , 6, R104	18.3	38
83	Medial floor plate formation in zebrafish consists of two phases and requires trunk-derived Midkine-a. <i>Genes and Development</i> , <b>2005</b> , 19, 897-902	12.6	33
82	MEPD: a resource for medaka gene expression patterns. <i>Bioinformatics</i> , <b>2005</b> , 21, 3195-7	7.2	20
81	The homeobox gene Xbh1 cooperates with proneural genes to specify ganglion cell fate within the <i>Xenopus</i> neural retina. <i>Development (Cambridge)</i> , <b>2004</b> , 131, 2305-15	6.6	20
80	Direct interaction of geminin and Six3 in eye development. <i>Nature</i> , <b>2004</b> , 427, 745-9	50.4	209
79	Efficient activation of gene expression using a heat-shock inducible Gal4/Vp16-UAS system in medaka. <i>BMC Biotechnology</i> , <b>2004</b> , 4, 26	3.5	24



78	Highly efficient zebrafish transgenesis mediated by the meganuclease I-SceI. <i>Methods in Cell Biology</i> , <b>2004</b> , 77, 381-401	1.8	71
77	GSD: a genetic screen database. <i>Mechanisms of Development</i> , <b>2004</b> , 121, 959-63	1.7	6
76	Mutations affecting retina development in Medaka. <i>Mechanisms of Development</i> , <b>2004</b> , 121, 703-14	1.7	19
75	Genetic dissection of the formation of the forebrain in Medaka, <i>Oryzias latipes</i> . <i>Mechanisms of Development</i> , <b>2004</b> , 121, 673-85	1.7	15
74	In vivo time-lapse imaging in medaka--n-heptanol blocks contractile rhythmical movements. <i>Mechanisms of Development</i> , <b>2004</b> , 121, 965-70	1.7	8
73	Mutations affecting retinotectal axonal pathfinding in Medaka, <i>Oryzias latipes</i> . <i>Mechanisms of Development</i> , <b>2004</b> , 121, 715-28	1.7	15
72	Large-scale expression screening by automated whole-mount in situ hybridization. <i>Mechanisms of Development</i> , <b>2004</b> , 121, 971-6	1.7	43
71	Mutations affecting somite formation in the Medaka ( <i>Oryzias latipes</i> ). <i>Mechanisms of Development</i> , <b>2004</b> , 121, 659-71	1.7	14
70	Mutations affecting liver development and function in Medaka, <i>Oryzias latipes</i> , screened by multiple criteria. <i>Mechanisms of Development</i> , <b>2004</b> , 121, 791-802	1.7	32
69	A systematic genome-wide screen for mutations affecting organogenesis in Medaka, <i>Oryzias latipes</i> . <i>Mechanisms of Development</i> , <b>2004</b> , 121, 647-58	1.7	115
68	Medaka and zebrafish, an evolutionary twin study. <i>Mechanisms of Development</i> , <b>2004</b> , 121, 629-37	1.7	173
67	Current status of medaka genetics and genomics. The Medaka Genome Initiative (MGI). <i>Methods in Cell Biology</i> , <b>2004</b> , 77, 173-99	1.8	7
66	Optical sectioning deep inside live embryos by selective plane illumination microscopy. <i>Science</i> , <b>2004</b> , 305, 1007-9	33.3	1531
65	Rapid chromosomal assignment of medaka mutants by bulked segregant analysis. <i>Gene</i> , <b>2004</b> , 329, 159-63	6.5	13
64	Ciliary photoreceptors with a vertebrate-type opsin in an invertebrate brain. <i>Science</i> , <b>2004</b> , 306, 869-71	33.3	322
63	Arthropod-like expression patterns of engrailed and wingless in the annelid <i>Platynereis dumerilii</i> suggest a role in segment formation. <i>Current Biology</i> , <b>2003</b> , 13, 1876-81	6.3	116
62	Loss of maternal Smad5 in zebrafish embryos affects patterning and morphogenesis of optic primordia. <i>Developmental Dynamics</i> , <b>2003</b> , 227, 128-33	2.9	12
61	Loss of eyes in zebrafish caused by mutation of <i>chokh/rx3</i> . <i>EMBO Reports</i> , <b>2003</b> , 4, 894-9	6.5	142

60	Transposon-mediated enhancer trapping in medaka. <i>Gene</i> , <b>2003</b> , 322, 57-66	3.8	68
59	MEPD: a Medaka gene expression pattern database. <i>Nucleic Acids Research</i> , <b>2003</b> , 31, 72-4	20.1	18
58	Six3 and Six6 activity is modulated by members of the groucho family. <i>Development (Cambridge)</i> , <b>2003</b> , 130, 185-95	6.6	110
57	Medaka—a model organism from the far East. <i>Nature Reviews Genetics</i> , <b>2002</b> , 3, 53-64	30.1	555
56	Cloning and expression of medaka Dachshund. <i>Mechanisms of Development</i> , <b>2002</b> , 112, 203-6	1.7	15
55	Expression of a medaka ( <i>Oryzias latipes</i> ) Bar homologue in the differentiating central nervous system and retina. <i>Mechanisms of Development</i> , <b>2002</b> , 114, 193-6	1.7	3
54	A screen for co-factors of Six3. <i>Mechanisms of Development</i> , <b>2002</b> , 117, 103-13	1.7	40
53	I-SceI meganuclease mediates highly efficient transgenesis in fish. <i>Mechanisms of Development</i> , <b>2002</b> , 118, 91-8	1.7	424
52	Six3 inactivation reveals its essential role for the formation and patterning of the vertebrate eye. <i>Development (Cambridge)</i> , <b>2002</b> , 129, 4057-4063	6.6	125
51	Development of pigment-cup eyes in the polychaete <i>Platynereis dumerilii</i> and evolutionary conservation of larval eyes in Bilateria. <i>Development (Cambridge)</i> , <b>2002</b> , 129, 1143-1154	6.6	139
50	Development of pigment-cup eyes in the polychaete <i>Platynereis dumerilii</i> and evolutionary conservation of larval eyes in Bilateria. <i>Development (Cambridge)</i> , <b>2002</b> , 129, 1143-54	6.6	76
49	Six3 inactivation reveals its essential role for the formation and patterning of the vertebrate eye. <i>Development (Cambridge)</i> , <b>2002</b> , 129, 4057-63	6.6	56
48	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> , <b>2001</b> , 211, 338-49	1.8	24
47	Evolution of the bilaterian larval foregut. <i>Nature</i> , <b>2001</b> , 409, 81-5	50.4	211
46	Reconstructing the eyes of Urbilateria. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2001</b> , 356, 1545-63	5.8	146
45	Medaka eyeless is the key factor linking retinal determination and eye growth. <i>Development (Cambridge)</i> , <b>2001</b> , 128, 4035-4044	6.6	102
44	Medaka eyeless is the key factor linking retinal determination and eye growth. <i>Development (Cambridge)</i> , <b>2001</b> , 128, 4035-44	6.6	46
43	An in situ hybridization screen for the rapid isolation of differentially expressed genes. <i>Development Genes and Evolution</i> , <b>2000</b> , 210, 28-33	1.8	20

42	Ectopic Sox3 activity elicits sensory placode formation. <i>Mechanisms of Development</i> , <b>2000</b> , 95, 175-87	1.7	94
41	A genetic screen for mutations affecting embryonic development in medaka fish ( <i>Oryzias latipes</i> ). <i>Mechanisms of Development</i> , <b>2000</b> , 97, 133-9	1.7	96
40	The conditional medaka mutation <i>eyeless</i> uncouples patterning and morphogenesis of the eye. <i>Development (Cambridge)</i> , <b>2000</b> , 127, 1911-1919	6.6	65
39	The conditional medaka mutation <i>eyeless</i> uncouples patterning and morphogenesis of the eye. <i>Development (Cambridge)</i> , <b>2000</b> , 127, 1911-9	6.6	26
38	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> , <b>1999</b> , 413, 385-404	3.4	73
37	The BMP-related protein radar: a maintenance factor for dorsal neuroectoderm cells?. <i>Mechanisms of Development</i> , <b>1999</b> , 85, 15-25	1.7	16
36	Six3 overexpression initiates the formation of ectopic retina. <i>Genes and Development</i> , <b>1999</b> , 13, 649-54	12.6	204
35	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> , <b>1999</b> , 126, 3769-3779	6.6	38
34	Graded interference with FGF signalling reveals its dorsoventral asymmetry at the mid-hindbrain boundary. <i>Development (Cambridge)</i> , <b>1999</b> , 126, 5659-5667	6.6	43
33	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> , <b>1999</b> , 153, 1385-94	4	55
32	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> , <b>1999</b> , 126, 3769-79	6.6	7
31	Graded interference with FGF signalling reveals its dorsoventral asymmetry at the mid-hindbrain boundary. <i>Development (Cambridge)</i> , <b>1999</b> , 126, 5659-67	6.6	7
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29	Six3, a medaka homologue of the <i>Drosophila</i> homeobox gene <i>sine oculis</i> is expressed in the anterior embryonic shield and the developing eye. <i>Mechanisms of Development</i> , <b>1998</b> , 74, 159-64	1.7	132
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26	Medaka <i>spalt</i> acts as a target gene of hedgehog signaling. <i>Development (Cambridge)</i> , <b>1997</b> , 124, 3147-566.6		41
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24	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> , <b>1995</b> , 49, 223-34	1.7	73
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21	Ligand-dependent tumor induction in medakafish embryos by a Xmrk receptor tyrosine kinase transgene. <i>Oncogene</i> , <b>1994</b> , 9, 1517-25	9.2	35
20	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> , <b>1994</b> , 269, 10423-30	5.4	23
19	The Xmrk receptor tyrosine kinase is activated in Xiphophorus malignant melanoma.. <i>EMBO Journal</i> , <b>1992</b> , 11, 4239-4246	13	53
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17	The Xmrk receptor tyrosine kinase is activated in Xiphophorus malignant melanoma. <i>EMBO Journal</i> , <b>1992</b> , 11, 4239-46	13	13
16	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> , <b>1991</b> , 29, 509-24	2.4	16
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13	An inexpensive and versatile computer-controlled PCR machine using a Peltier Element as a thermoelectric heat pump. <i>Trends in Genetics</i> , <b>1989</b> , 5, 202-3	8.5	9
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11	RFLP for an EGF-receptor related gene associated with the melanoma oncogene locus of Xiphophorus maculatus. <i>Nucleic Acids Research</i> , <b>1988</b> , 16, 7212	20.1	10
10	Eye Development440-485		
9	Enhanced in vivo-imaging in fish by optimized anaesthesia, fluorescent protein selection and removal of pigmentation		1
8	Dynamics of ASC speck formation during skin inflammatory responses in vivo		2
7	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

6	Igf signalling uncouples retina growth from body size by modulating progenitor cell division	1
5	Automated high-throughput heart rate measurement in medaka and zebrafish embryos under physiological conditions	3
4	TGF $\beta$ -mediated structural remodeling facilitates optic fissure fusion and the necessity of BMP antagonism in this process	1
3	Genomic variations and epigenomic landscape of the Medaka Inbred Kiyosu-Karlsruhe (MIKK) panel	3
2	The Medaka Inbred Kiyosu-Karlsruhe (MIKK) Panel	1
1	Fish primary embryonic stem cells self-assemble into retinal tissue mirroring in vivo early eye development	1