

# Robert Geisler

## List of Publications by Year in descending order

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62  
papers

11,877  
citations

53660

45  
h-index

106150

65  
g-index

68  
all docs

68  
docs citations

68  
times ranked

14493  
citing authors

#	ARTICLE	IF	CITATIONS
1	The zebrafish reference genome sequence and its relationship to the human genome. <i>Nature</i> , 2013, 496, 498-503.	13.7	3,708
2	Silberblick/Wnt11 mediates convergent extension movements during zebrafish gastrulation. <i>Nature</i> , 2000, 405, 76-81.	13.7	919
3	Zebrafish embryos as an alternative to animal experiments – A commentary on the definition of the onset of protected life stages in animal welfare regulations. <i>Reproductive Toxicology</i> , 2012, 33, 128-132.	1.3	491
4	Zebrafish <i>colourless</i> encodes <i>sox10</i> and specifies non-ectomesenchymal neural crest fates. <i>Development (Cambridge)</i> , 2001, 128, 4113-4125.	1.2	449
5	A zebrafish homologue of the chemokine receptor Cxcr4 is a germ-cell guidance receptor. <i>Nature</i> , 2003, 421, 279-282.	13.7	384
6	Mutations in cadherin 23 affect tip links in zebrafish sensory hair cells. <i>Nature</i> , 2004, 428, 955-959.	13.7	317
7	Control of <i>her1</i> expression during zebrafish somitogenesis by a <i>Delta</i> -dependent oscillator and an independent wave-front activity. <i>Genes and Development</i> , 2000, 14, 1678-1690.	2.7	296
8	The coiled-coil domain containing protein CCDC40 is essential for motile cilia function and left-right axis formation. <i>Nature Genetics</i> , 2011, 43, 79-84.	9.4	292
9	A radiation hybrid map of the zebrafish genome. <i>Nature Genetics</i> , 1999, 23, 86-89.	9.4	259
10	Retinoic acid signalling in the zebrafish embryo is necessary during pre-segmentation stages to pattern the anterior-posterior axis of the CNS and to induce a pectoral fin bud. <i>Development (Cambridge)</i> , 2002, 129, 2851-2865.	1.2	259
11	<i>cactus</i> , a gene involved in dorsoventral pattern formation of <i>Drosophila</i> , is related to the $\beta$ gene family of vertebrates. <i>Cell</i> , 1992, 71, 613-621.	13.5	254
12	A mutation in the Gsk3-binding domain of zebrafish Masterblind/Axin1 leads to a fate transformation of telencephalon and eyes to diencephalon. <i>Genes and Development</i> , 2001, 15, 1427-1434.	2.7	242
13	<i>her1</i> and the <i>notch</i> pathway function within the oscillator mechanism that regulates zebrafish somitogenesis. <i>Development (Cambridge)</i> , 2002, 129, 1175-1183.	1.2	229
14	<i>parachute</i> / <i>n-cadherin</i> is required for morphogenesis and maintained integrity of the zebrafish neural tube. <i>Development (Cambridge)</i> , 2002, 129, 3281-3294.	1.2	205
15	The zebrafish van gogh mutation disrupts <i>tbx1</i> , which is involved in the DiGeorge deletion syndrome in humans. <i>Development (Cambridge)</i> , 2003, 130, 5043-5052.	1.2	198
16	<i>lockjaw</i> encodes a zebrafish <i>tfap2a</i> required for early neural crest development. <i>Development (Cambridge)</i> , 2003, 130, 5755-5768.	1.2	190
17	Cohesin-dependent regulation of <i>Runx</i> genes. <i>Development (Cambridge)</i> , 2007, 134, 2639-2649.	1.2	178
18	Learning from Small Fry: The Zebrafish as a Genetic Model Organism for Aquaculture Fish Species. <i>Marine Biotechnology</i> , 2006, 8, 329-345.	1.1	175

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19	Axon Sorting in the Optic Tract Requires HSPG Synthesis by ext2 (dackel) and extl3 (boxer). <i>Neuron</i> , 2004, 44, 947-960.	3.8	153
20	Leukocyte Tyrosine Kinase Functions in Pigment Cell Development. <i>PLoS Genetics</i> , 2008, 4, e1000026.	1.5	137
21	Integrin $\alpha$ 5 and Delta/Notch Signaling Have Complementary Spatiotemporal Requirements during Zebrafish Somitogenesis. <i>Developmental Cell</i> , 2005, 8, 575-586.	3.1	135
22	beamter/deltaC and the role of Notch ligands in the zebrafish somite segmentation, hindbrain neurogenesis and hypochord differentiation. <i>Developmental Biology</i> , 2005, 286, 391-404.	0.9	135
23	Transcriptome profiling of adult zebrafish at the late stage of chronic tuberculosis due to <i>Mycobacterium marinum</i> infection. <i>Molecular Immunology</i> , 2005, 42, 1185-1203.	1.0	129
24	<sc>S</sc>lc45a2 and <sc>V</sc>â€<sc>ATP</sc>ase are regulators of melanosomal p<sc>H</sc> homeostasis in zebrafish, providing a mechanism for human pigment evolution and disease. <i>Pigment Cell and Melanoma Research</i> , 2013, 26, 205-217.	1.5	115
25	Differential gene expression as a toxicant-sensitive endpoint in zebrafish embryos and larvae. <i>Aquatic Toxicology</i> , 2007, 81, 355-364.	1.9	112
26	A gradient of cytoplasmic Cactus degradation establishes the nuclear localization gradient of the dorsal morphogen in <i>Drosophila</i> . <i>Mechanisms of Development</i> , 1996, 60, 109-123.	1.7	107
27	The UCS factor Steif/Unc-45b interacts with the heat shock protein Hsp90a during myofibrillogenesis. <i>Developmental Biology</i> , 2007, 308, 133-143.	0.9	105
28	A mutation in the silver gene leads to defects in melanosome biogenesis and alterations in the visual system in the zebrafish mutant fading vision. <i>Developmental Biology</i> , 2005, 284, 421-436.	0.9	103
29	iguana encodes a novel zinc-finger protein with coiled-coil domains essential for Hedgehog signal transduction in the zebrafish embryo. <i>Genes and Development</i> , 2004, 18, 1565-1576.	2.7	99
30	Zebrafish penner/lethal giant larvae 2 functions in hemidesmosome formation, maintenance of cellular morphology and growth regulation in the developing basal epidermis. <i>Development (Cambridge)</i> , 2005, 132, 3255-3265.	1.2	91
31	The Light Responsive Transcriptome of the Zebrafish: Function and Regulation. <i>PLoS ONE</i> , 2011, 6, e17080.	1.1	90
32	Monorail/Foxa2 regulates floorplate differentiation and specification of oligodendrocytes, serotonergic raphe neurons and cranial motoneurons. <i>Development (Cambridge)</i> , 2005, 132, 645-658.	1.2	81
33	Heparan Sulfate 6-O-Sulfotransferase Is Essential for Muscle Development in Zebrafish. <i>Journal of Biological Chemistry</i> , 2003, 278, 31118-31127.	1.6	79
34	The Zebrafish shocked Gene Encodes a Glycine Transporter and Is Essential for the Function of Early Neural Circuits in the CNS. <i>Journal of Neuroscience</i> , 2005, 25, 6610-6620.	1.7	74
35	The Zebrafish Mutants dre, uki, and lep Encode Negative Regulators of the Hedgehog Signaling Pathway. <i>PLoS Genetics</i> , 2005, 1, e19.	1.5	73
36	Mutated otopetrin 1 affects the genesis of otoliths and the localization of Starmaker in zebrafish. <i>Development Genes and Evolution</i> , 2004, 214, 582-590.	0.4	71

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37	Gene expression profiling of gilthead sea bream during early development and detection of stress-related genes by the application of cDNA microarray technology. <i>Physiological Genomics</i> , 2005, 23, 182-191.	1.0	71
38	Histone deacetylase 1 is required for cell cycle exit and differentiation in the zebrafish retina. <i>Developmental Dynamics</i> , 2005, 233, 883-889.	0.8	62
39	The first radiation hybrid map of a perch-like fish: The gilthead seabream ( <i>Sparus aurata</i> L). <i>Genomics</i> , 2006, 87, 793-800.	1.3	59
40	Large-scale mapping of mutations affecting zebrafish development. <i>BMC Genomics</i> , 2007, 8, 11.	1.2	59
41	Aplexone targets the HMG-CoA reductase pathway and differentially regulates arteriovenous angiogenesis. <i>Development (Cambridge)</i> , 2011, 138, 1173-1181.	1.2	59
42	Maternal and embryonic expression of zebrafish <i>lef1</i> . <i>Mechanisms of Development</i> , 1999, 86, 147-150.	1.7	53
43	A gene-based radiation hybrid map of the gilthead sea bream <i>Sparus aurata</i> refines and exploits conserved synteny with <i>Tetraodon nigroviridis</i> . <i>BMC Genomics</i> , 2007, 8, 44.	1.2	52
44	The zebrafish mutant <i>lkk/vam6</i> resembles human multisystemic disorders caused by aberrant trafficking of endosomal vesicles. <i>Development (Cambridge)</i> , 2008, 135, 387-399.	1.2	48
45	The zebrafish dystrophic mutant <i>softy</i> maintains muscle fibre viability despite basement membrane rupture and muscle detachment. <i>Development (Cambridge)</i> , 2009, 136, 3367-3376.	1.2	48
46	Simplex controls cell proliferation and gene transcription during zebrafish caudal fin regeneration. <i>Developmental Biology</i> , 2009, 325, 329-340.	0.9	45
47	Comparative analysis and characterization of expressed sequence tags in gilthead sea bream ( <i>Sparus</i> ) Tj ETQq1 1 0,784314 rgBT /Overdo	1.7	34
48	The zebrafish <i>udu</i> gene encodes a novel nuclear factor and is essential for primitive erythroid cell development. <i>Blood</i> , 2007, 110, 99-106.	0.6	34
49	Spermidine, but not spermine, is essential for pigment pattern formation in zebrafish. <i>Biology Open</i> , 2016, 5, 736-744.	0.6	33
50	The Calcineurin-FoxO-MuRF1 signaling pathway regulates myofibril integrity in cardiomyocytes. <i>ELife</i> , 2017, 6, .	2.8	33
51	Conservation of <i>Mhc</i> Class III Region Synteny Between Zebrafish and Human as Determined by Radiation Hybrid Mapping. <i>Journal of Immunology</i> , 2000, 165, 6984-6993.	0.4	31
52	Fine-tuning of Hh signaling by the RNA-binding protein Quaking to control muscle development. <i>Development (Cambridge)</i> , 2011, 138, 1783-1794.	1.2	28
53	Archiving of zebrafish lines can reduce animal experiments in biomedical research. <i>EMBO Reports</i> , 2017, 18, 1-2.	2.0	26
54	Mutation in the $\hat{\Gamma}$ -subunit of the nAChR suppresses the muscle defects caused by lack of Dystrophin. <i>Developmental Dynamics</i> , 2005, 234, 1016-1025.	0.8	25

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55	Maintenance of Zebrafish Lines at the European Zebrafish Resource Center. <i>Zebrafish</i> , 2016, 13, S-19-S-23.	0.5	25
56	Retinal function and morphology in two zebrafish models of oculo-renal syndromes. <i>European Journal of Neuroscience</i> , 2003, 18, 1377-1386.	1.2	21
57	The zebrafish mutant bumper shows a hyperproliferation of lens epithelial cells and fibre cell degeneration leading to functional blindness. <i>Mechanisms of Development</i> , 2010, 127, 203-219.	1.7	17
58	Mutation of a serine near the catalytic site of the choline acetyltransferase a gene almost completely abolishes motility of the zebrafish embryo. <i>PLoS ONE</i> , 2018, 13, e0207747.	1.1	9
59	Abrogation of Stem Loop Binding Protein (Slbp) function leads to a failure of cells to transition from proliferation to differentiation, retinal coloboma and midline axon guidance deficits. <i>PLoS ONE</i> , 2019, 14, e0211073.	1.1	9
60	EuFishBioMed (COST Action BM0804): A European Network to Promote the Use of Small Fishes in Biomedical Research. <i>Zebrafish</i> , 2012, 9, 90-93.	0.5	7
61	Radiation Hybrid Maps of Medaka Chromosomes LG 12, 17, and 22. <i>DNA Research</i> , 2007, 14, 135-140.	1.5	5
62	Bacterial Artificial Chromosome (BAC) Clones and the Current Clone Map of the Zebrafish Genome. <i>Methods in Cell Biology</i> , 2004, 77, 295-304.	0.5	4