Jacek Topczewski

List of Publications by Year in descending order

59 papers	4,236 citations	186265 28 h-index	133252 59 g-index
70 all docs	70 docs citations	70 times ranked	5367 citing authors

#	Article	IF	Citations
1	Zebrafish trilobite identifies new roles for Strabismus in gastrulation and neuronal movements. Nature Cell Biology, 2002, 4, 610-615.	10.3	440
2	Six3 repression of Wnt signaling in the anterior neuroectoderm is essential for vertebrate forebrain development. Genes and Development, 2003, 17, 368-379.	5.9	437
3	Embryonic and tumorigenic pathways converge via Nodal signaling: role in melanoma aggressiveness. Nature Medicine, 2006, 12, 925-932.	30.7	424
4	The Zebrafish Glypican Knypek Controls Cell Polarity during Gastrulation Movements of Convergent Extension. Developmental Cell, 2001, 1, 251-264.	7.0	417
5	Zebrafish Rho Kinase 2 Acts Downstream of Wnt11 to Mediate Cell Polarity and Effective Convergence and Extension Movements. Current Biology, 2002, 12, 876-884.	3.9	312
6	Visualizing morphogenesis in transgenic zebrafish embryos using BODIPY TR methyl ester dye as a vital counterstain for GFP. Developmental Dynamics, 2005, 232, 359-368.	1.8	143
7	Identification of an evolutionarily conserved regulatory element of the zebrafish col2a1a gene. Developmental Biology, 2011, 357, 518-531.	2.0	116
8	Sec24D-Dependent Transport of Extracellular Matrix Proteins Is Required for Zebrafish Skeletal Morphogenesis. PLoS ONE, 2010, 5, e10367.	2.5	110
9	Role of the zebrafishtrilobite locus in gastrulation movements of convergence and extension. Genesis, 2000, 27, 159-173.	1.6	109
10	miR-27b controls venous specification and tip cell fate. Blood, 2012, 119, 2679-2687.	1.4	107
11	Essential roles of GÎ±12/13 signaling in distinct cell behaviors driving zebrafish convergence and extension gastrulation movements. Journal of Cell Biology, 2005, 169, 777-787.	5.2	101
12	Inactivation of serine protease Matriptase1a by its inhibitor Hai1 is required for epithelial integrity of the zebrafish epidermis. Development (Cambridge), 2007, 134, 3461-3471.	2.5	98
13	Zebrafish integrin-linked kinase is required in skeletal muscles for strengthening the integrinâ€“ECM adhesion complex. Developmental Biology, 2008, 318, 92-101.	2.0	95
14	The winged helix transcription factor Foxc1a is essential for somitogenesis in zebrafish. Genes and Development, 2001, 15, 2483-2493.	5.9	91
15	Disc1 regulatesfoxd3andsox10expression, affecting neural crest migration and differentiation. Development (Cambridge), 2009, 136, 2623-2632.	2.5	90
16	Loss of col8a1a function during zebrafish embryogenesis results in congenital vertebral malformations. Developmental Biology, 2014, 386, 72-85.	2.0	84
17	A map of cis-regulatory elements and 3D genome structures in zebrafish. Nature, 2020, 588, 337-343.	27.8	80
18	Semicircular canal morphogenesis in the zebrafish inner ear requires the function of gpr126 (lauscher), an adhesion class G protein-coupled receptor gene. Development (Cambridge), 2013, 140, 4362-4374.	2.5	72

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19	Development and Regeneration of the Zebrafish Maxillary Barbel: A Novel Study System for Vertebrate Tissue Growth and Repair. PLoS ONE, 2010, 5, e8737.	2.5	64
20	Craniofacial skeletal defects of adult zebrafish Glypican 4 (knypek) mutants. Developmental Dynamics, 2009, 238, 2550-2563.	1.8	53
21	Pdlim7 (LMP4) regulation of Tbx5 specifies zebrafish heart atrio-ventricular boundary and valve formation. Developmental Biology, 2010, 337, 233-245.	2.0	52
22	Head and trunk in zebrafish arise via coinhibition of BMP signaling by bozozok and chordino. Genes and Development, 2000, 14, 3087-3092.	5.9	48
23	Sequence and expression of zebrafish foxc1a and foxc1b , encoding conserved forkhead/winged helix transcription factors. Mechanisms of Development, 2001, 100, 343-347.	1.7	46
24	A role of glypican4 and wnt5b in chondrocyte stacking underlying craniofacial cartilage morphogenesis. Mechanisms of Development, 2015, 138, 279-290.	1.7	46
25	Inhibition of neurogenesis at the zebrafish midbrain-hindbrain boundary by the combined and dose-dependent activity of a new hairy/E(spl)gene pair. Development (Cambridge), 2005, 132, 75-88.	2.5	43
26	A zebrafish Notum homolog specifically blocks the Wnt/Î²-catenin signaling pathway. Development (Cambridge), 2012, 139, 2416-2425.	2.5	42
27	The Emerging Role of Wnt/PCP Signaling in Organ Formation. Zebrafish, 2009, 6, 9-14.	1.1	34
28	Non-Aggregating Tau Phosphorylation by Cyclin-Dependent Kinase 5 Contributes to Motor Neuron Degeneration in Spinal Muscular Atrophy. Journal of Neuroscience, 2015, 35, 6038-6050.	3.6	33
29	Targeted deletion of the zebrafish actin-bundling protein L-plastin (lcp1). PLoS ONE, 2018, 13, e0190353.	2.5	32
30	Direct activation of chordoblasts by retinoic acid is required for segmented centra mineralization during zebrafish spine development. Development (Cambridge), 2018, 145, .	2.5	29
31	Bisoniana 119. Phylogeny and genetic variation of the European bison Bison bonasus based on mitochondrial DNA D-loop sequences. Acta Theriologica, 1999, 44, 253-262.	1.1	26
32	Expression of five frizzleds during zebrafish craniofacial development. Gene Expression Patterns, 2009, 9, 520-527.	0.8	24
33	Regulatory variant in FZD 6 gene contributes to nonsyndromic cleft lip and palate in an Africanâ€American family. Molecular Genetics & Genomic Medicine, 2015, 3, 440-451.	1.2	23
34	A functional screening of the kinome identifies the Poloâ€like kinase 4 as a potential therapeutic target for malignant rhabdoid tumors, and possibly, other embryonal tumors of the brain. Pediatric Blood and Cancer, 2017, 64, e26551.	1.5	23
35	Structure and regulation of cysD , the homocysteine synthase gene of Aspergillu s nidulans. Current Genetics, 1998, 33, 136-144.	1.7	22
36	Multi-Shell Nano-CarboScavengers for Petroleum Spill Remediation. Scientific Reports, 2017, 7, 41880.	3.3	21

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37	Planar cell polarity signaling in craniofacial development. Organogenesis, 2011, 7, 255-259.	1.2	20
38	Glypican 4 and Mmp14 interact in regulating the migration of anterior endodermal cells by limiting extracellular matrix deposition. Development (Cambridge), 2018, 145, .	2.5	20
39	Peering through zebrafish to understand inherited bone marrow failure syndromes. Haematologica, 2019, 104, 13-24.	3.5	20
40	Targeted gene expression in the zebrafish prechordal plate. Genesis, 2006, 44, 584-588.	1.6	19
41	The Aspergillus nidulans cysA gene encodes a novel type of serine O-acetyltransferase which is homologous to homoserine O-acetyltransferases The GenBank accession number for the sequence reported in this paper is AF029885.. Microbiology (United Kingdom), 2000, 146, 2695-2703.	1.8	19
42	Simple, Economical Heat-Shock Devices for Zebrafish Housing Racks. Zebrafish, 2011, 8, 211-219.	1.1	15
43	Several mutations including two novel mutations of the glucose-6-phosphate dehydrogenase gene in Polish G6PD deficient subjects with chronic nonspherocytic hemolytic anemia, acute hemolytic anemia, and favism. Human Mutation, 1999, 14, 477-484.	2.5	14
44	Peripheral axons of the adult zebrafish maxillary barbel extensively remyelinate during sensory appendage regeneration. Journal of Comparative Neurology, 2012, 520, 4184-4203.	1.6	14
45	Developmentally regulated expression of two members of the Nrarp family in zebrafish. Gene Expression Patterns, 2003, 3, 169-171.	0.8	13
46	Divergent requirements for fibroblast growth factor signaling in zebrafish maxillary barbel and caudal fin regeneration. Development Growth and Differentiation, 2013, 55, 282-300.	1.5	13
47	Cloning and characterization of the Aspergillus nidulans cysB gene encoding cysteine synthase. Current Genetics, 1997, 31, 348-356.	1.7	12
48	Genotyping of Bison bonasus Kâ€casein gene following DNA sequence amplification. Animal Genetics, 1995, 26, 335-336.	1.7	11
49	Notum Homolog Plays a Novel Role in Primary Motor Innervation. Journal of Neuroscience, 2013, 33, 2177-2187.	3.6	9
50	Loss of Sbds in zebrafish leads to neutropenia and pancreas and liver atrophy. JCI Insight, 2020, 5, .	5.0	9
51	Langerhans cells and SFRP2/Wnt/betaâ€catenin signalling control adaptation of skin epidermis to mechanical stretching. Journal of Cellular and Molecular Medicine, 2022, 26, 764-775.	3.6	9
52	Identification of regulatory elements recapitulating early expression of L-plastin in the zebrafish enveloping layer and embryonic periderm. Gene Expression Patterns, 2019, 32, 53-66.	0.8	7
53	Zebrafish models of skeletal dysplasia induced by cholesterol biosynthesis deficiency. DMM Disease Models and Mechanisms, 2020, 13, .	2.4	6
54	Methods for the Study of the Zebrafish Maxillary Barbel. Journal of Visualized Experiments, 2009, , .	0.3	5

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55	Comparison of different numerical treatments for x-ray phase tomography of soft tissue from differential phase projections. Physics in Medicine and Biology, 2015, 60, 3065-3080.	3.0	4
56	Gene Disruption of Zebrafish Sbds Phenocopies Human Shwachman-Diamond Syndrome but Suggests More Global and Lineage Defects. Blood, 2016, 128, 336-336.	1.4	1
57	Reply to Melanoma pathogenesis and Nodal: a partial picture?. Nature Medicine, 2006, 12, 1231-1231.	30.7	0
58	ATRT-04. AÂFUNCTIONAL SCREENING OF THE KINOME IDENTIFIES THE POLO-LIKE KINASE 4 (PLK4) AS AÂPOTENTIAL THERAPEUTIC TARGET FOR ATYPICAL TERATOID/RHABDOID TUMORS (AT/RT), AND POSSIBLY, OTHER EMBRYONAL TUMORS OF THE BRAIN. Neuro-Oncology, 2017, 19, iv1-iv2.	1.2	0
59	Genetic Ablation of Sbds in Zebrafish Results in Neutropenia, Diminished Growth, and Reduced Viability, Indicating Its Roles in Embryonic and Post-Embryonic Development. Blood, 2015, 126, 3607-3607.	1.4	0