Jeroen den Hertog

List of Publications by Year in descending order

40 papers	990 citations	567281 15 h-index	454955 30 g-index
47 all docs	47 docs citations	47 times ranked	1469 citing authors

#	Article	IF	Citations
1	Protein tyrosine phosphatases in health and disease. FEBS Journal, 2013, 280, 708-730.	4.7	139
2	Shp2 Knockdown and Noonan/LEOPARD Mutant Shp2â€“Induced Gastrulation Defects. PLoS Genetics, 2007, 3, e225.	3.5	88
3	Chemical Genetics: Drug Screens in Zebrafish. Bioscience Reports, 2005, 25, 289-297.	2.4	85
4	Fyn/Yes and nonâ€canonical Wnt signalling converge on RhoA in vertebrate gastrulation cell movements. EMBO Reports, 2005, 6, 426-431.	4.5	72
5	Noonan syndrome gain-of-function mutations inNRAScause zebrafish gastrulation defects. DMM Disease Models and Mechanisms, 2011, 4, 393-399.	2.4	57
6	Recent advances in understanding the role of protein-tyrosine phosphatases in development and disease. Developmental Biology, 2017, 428, 283-292.	2.0	52
7	Noonan and LEOPARD syndrome Shp2 variants induce heart displacement defects in zebrafish. Development (Cambridge), 2014, 141, 1961-1970.	2.5	47
8	Haploinsufficiency of the genes encoding the tumor suppressor Pten predisposes zebrafish to hemangiosarcoma. DMM Disease Models and Mechanisms, 2012, 5, 241-247.	2.4	40
9	Loss of Pten promotes angiogenesis and enhanced vegfaa expression in zebrafish. DMM Disease Models and Mechanisms, 2013, 6, 1159-66.	2.4	38
10	Pivotal role of Pten in the balance between proliferation and differentiation of hematopoietic stem cells in zebrafish. Blood, 2014, 123, 184-190.	1.4	38
11	A chemical screen in zebrafish embryonic cells establishes that Akt activation is required for neural crest development. ELife, 2017, 6, .	6.0	37
12	PZR Coordinates Shp2 Noonan and LEOPARD Syndrome Signaling in Zebrafish and Mice. Molecular and Cellular Biology, 2014, 34, 2874-2889.	2.3	32
13	A new perspective on fungal metabolites: identification of bioactive compounds from fungi using zebrafish embryogenesis as read-out. Scientific Reports, 2019, 9, 17546.	3.3	26
14	Distinct and Overlapping Functions of ptpn11 Genes in Zebrafish Development. PLoS ONE, 2014, 9, e94884.	2.5	22
15	Identification and Expression of the Family of Classical Protein-Tyrosine Phosphatases in Zebrafish. PLoS ONE, 2010, 5, e12573.	2.5	20
16	Targeting Oncogenic Src Homology 2 Domain-Containing Phosphatase 2 (SHP2) by Inhibiting Its Proteinâ€“Protein Interactions. Journal of Medicinal Chemistry, 2021, 64, 15973-15990.	6.4	17
17	Differential Requirement for Pten Lipid and Protein Phosphatase Activity during Zebrafish Embryonic Development. PLoS ONE, 2016, 11, e0148508.	2.5	16
18	Protein tyrosine phosphatases Îµ and Î± perform nonredundant roles in osteoclasts. Molecular Biology of the Cell, 2014, 25, 1808-1818.	2.1	15

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19	Pair-Wise Regulation of Convergence and Extension Cell Movements by Four Phosphatases via RhoA. PLoS ONE, 2012, 7, e35913.	2.5	11
20	Differential oxidation of protein-tyrosine phosphatases during zebrafish caudal fin regeneration. Scientific Reports, 2017, 7, 8460.	3.3	10
21	The seventh international <scp>RASopathies</scp> symposium: Pathways to a cureâ€"expanding knowledge, enhancing research, and therapeutic discovery. American Journal of Medical Genetics, Part A, 2022, 188, 1915-1927.	1.2	10
22	Phosphoproteomics-Mediated Identification of Fer Kinase as a Target of Mutant Shp2 in Noonan and LEOPARD Syndrome. PLoS ONE, 2014, 9, e106682.	2.5	9
23	A versatile spectrophotometric protein tyrosine phosphatase assay based on 3-nitrophosphotyrosine containing substrates. Analytical Biochemistry, 2014, 448, 9-13.	2.4	9
24	Impaired caudal finâ€fold regeneration in zebrafish deficient for the tumor suppressor Pten. Regeneration (Oxford, England), 2017, 4, 217-226.	6.3	9
25	Inflammatory response in hematopoietic stem and progenitor cells triggered by activating SHP2 mutations evokes blood defects. ELife, 2022, 11, .	6.0	9
26	Thermal Proteome Profiling in Zebrafish Reveals Effects of Napabucasin on Retinoic Acid Metabolism. Molecular and Cellular Proteomics, 2021, 20, 100033.	3.8	8
27	Tumor Suppressors in Zebrafish: From TP53 to PTEN and Beyond. Advances in Experimental Medicine and Biology, 2016, 916, 87-101.	1.6	7
28	Shp2â€"Mitogen-Activated Protein Kinase Signaling Drives Proliferation during Zebrafish Embryo Caudal Fin Fold Regeneration. Molecular and Cellular Biology, 2018, 38, .	2.3	7
29	Cercosporamide inhibits bone morphogenetic protein receptor type I kinase activity in zebrafish. DMM Disease Models and Mechanisms, 2020, 13, .	2.4	7
30	Fine-Tuning of Pten Localization and Phosphatase Activity Is Essential for Zebrafish Angiogenesis. PLoS ONE, 2016, 11, e0154771.	2.5	7
31	Realâ€Time Monitoring of the Dephosphorylating Activity of Protein Tyrosine Phosphatases Using Microarrays with 3â€Nitrophosphotyrosine Substrates. ChemPlusChem, 2013, 78, 1349-1357.	2.8	6
32	Pten function in zebrafish: Anything but a fish story. Methods, 2015, 77-78, 191-196.	3.8	6
33	Zebrafish as a model to study PTPs during development. Methods, 2014, 65, 247-253.	3.8	5
34	Evolution-Informed Discovery of the Naphthalenone Biosynthetic Pathway in Fungi. MBio, 0, , .	4.1	5
35	Studying Protein-Tyrosine Phosphatases in Zebrafish. Methods in Molecular Biology, 2016, 1447, 351-372.	0.9	4
36	Gregatins, a Group of Related Fungal Secondary Metabolites, Inhibit Aspects of Quorum Sensing in Gram-Negative Bacteria. Frontiers in Microbiology, 0, 13, .	3.5	4

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37	Hubrecht Institute Centennial â€“ From embryos to stem cells. Developmental Biology, 2017, 428, 261-263.	2.0	3
38	Protein tyrosine phosphatase alpha inhibits hypothalamic leptin receptor signaling and regulates body weight in vivo. FASEB Journal, 2019, 33, 5101-5111.	0.5	3
39	Phosphatidylinositol-3 kinase signaling controls survival and stemness of hematopoietic stem and progenitor cells. Oncogene, 2021, 40, 2741-2755.	5.9	3
40	Berkchaetoazaphilone B has antimicrobial activity and affects energy metabolism. Scientific Reports, 2021, 11, 18774.	3.3	3