Stefan Schulte-Merker

List of Publications by Year
in descending order

66 papers	7,100 citations	101384 36 h-index	102304 66 g-index
79 all docs	79 docs citations	79 times ranked	8916 citing authors

#	Article	IF	Citations
1	Reverse Genetic Screening Reveals Poor Correlation between Morpholino-Induced and Mutant Phenotypes in Zebrafish. Developmental Cell, 2015, 32, 97-108.	3.1	666
2	tp53 mutant zebrafish develop malignant peripheral nerve sheath tumors. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 407-412.	3.3	559
3	Consensus guidelines for the use and interpretation of angiogenesis assays. Angiogenesis, 2018, 21, 425-532.	3.7	429
4	ccbe1 is required for embryonic lymphangiogenesis and venous sprouting. Nature Genetics, 2009, 41, 396-398.	9.4	409
5	Zebrafish: Housing and husbandry recommendations. Laboratory Animals, 2020, 54, 213-224.	0.5	366
6	Lymphatic vascular morphogenesis in development, physiology, and disease. Journal of Cell Biology, 2011, 193, 607-618.	2.3	344
7	Guidelines for morpholino use in zebrafish. PLoS Genetics, 2017, 13, e1007000.	1.5	255
8	A novel multistep mechanism for initial lymphangiogenesis in mouse embryos based on ultramicroscopy. EMBO Journal, 2013, 32, 629-644.	3.5	252
9	Development of the Zebrafish Lymphatic System Requires Vegfc Signaling. Current Biology, 2006, 16, 1244-1248.	1.8	245
10	Retinoic acid and Cyp26b1 are critical regulators of osteogenesis in the axial skeleton. Development (Cambridge), 2008, 135, 3765-3774.	1.2	218
11	Vegfc/Flt4 signalling is suppressed by Dll4 in developing zebrafish intersegmental arteries. Development (Cambridge), 2009, 136, 4001-4009.	1.2	205
12	Arteries provide essential guidance cues for lymphatic endothelial cells in the zebrafish trunk. Development (Cambridge), 2010, 137, 2653-2657.	1.2	176
13	CCBE1 Is Essential for Mammalian Lymphatic Vascular Development and Enhances the Lymphangiogenic Effect of Vascular Endothelial Growth Factor-C In Vivo. Circulation Research, 2011, 109, 486-491.	2.0	175
14	Rapid BAC selection for tol2-mediated transgenesis in zebrafish. Development (Cambridge), 2011, 138, 4327-4332.	1.2	160
15	Out with the old, in with the new: reassessing morpholino knockdowns in light of genome editing technology. Development (Cambridge), 2014, 141, 3103-3104.	1.2	152
16	Ccbe1 regulates Vegfc-mediated induction of Vegfr3 signaling during embryonic lymphangiogenesis. Development (Cambridge), 2014, 141, 1239-1249.	1.2	145
17	How to Plumb a Pisces: Understanding Vascular Development and Disease Using Zebrafish Embryos. Developmental Cell, 2017, 42, 567-583.	3.1	144
18	Mutation in Vascular Endothelial Growth Factor-C, a Ligand for Vascular Endothelial Growth Factor Receptor-3, Is Associated With Autosomal Dominant Milroy-Like Primary Lymphedema. Circulation Research, 2013, 112, 956-960.	2.0	143

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19	Flt1 acts as a negative regulator of tip cell formation and branching morphogenesis in the zebrafish embryo. Development (Cambridge), 2011, 138, 2111-2120.	1.2	142
20	Divergence of zebrafish and mouse lymphatic cell fate specification pathways. Development (Cambridge), 2014, 141, 1228-1238.	1.2	132
21	The zebrafish common cardinal veins develop by a novel mechanism: lumen ensheathment. Development (Cambridge), 2013, 140, 2776-2786.	1.2	120
22	Role of Delta-like-4/Notch in the Formation and Wiring of the Lymphatic Network in Zebrafish. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 1695-1702.	1.1	118
23	Mature osteoblasts dedifferentiate in response to traumatic bone injury in the zebrafish fin and skull. Development (Cambridge), 2014, 141, 2225-2234.	1.2	96
24	Intracellular uptake of macromolecules by brain lymphatic endothelial cells during zebrafish embryonic development. ELife, 2017, 6, .	2.8	93
25	Entpd5 is essential for skeletal mineralization and regulates phosphate homeostasis in zebrafish. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 21372-21377.	3.3	91
26	Not All Bones are Created Equal â€“ Using Zebrafish and Other Teleost Species in Osteogenesis Research. Methods in Cell Biology, 2011, 105, 239-255.	0.5	77
27	Zebrafish VEGF Receptors: A Guideline to Nomenclature. PLoS Genetics, 2008, 4, e1000064.	1.5	66
28	A blood capillary plexus-derived population of progenitor cells contributes to genesis of the dermal lymphatic vasculature during embryonic development. Development (Cambridge), 2018, 145, .	1.2	64
29	Segmentation of the zebrafish axial skeleton relies on notochord sheath cells and not on the segmentation clock. ELife, 2018, 7, .	2.8	61
30	An Evolutionarily Conserved Role for Polydom/Svep1 During Lymphatic Vessel Formation. Circulation Research, 2017, 120, 1263-1275.	2.0	59
31	Spine Patterning Is Guided by Segmentation of the Notochord Sheath. Cell Reports, 2018, 22, 2026-2038.	2.9	59
32	Pathological mineralization in a zebrafishenpp1mutant exhibits features of Generalized Arterial Calcification of Infancy (GACI) and Pseudoxanthoma Elasticum (PXE). DMM Disease Models and Mechanisms, 2014, 7, 811-22.	1.2	56
33	Late developing cardiac lymphatic vasculature supports adult zebrafish heart function and regeneration. ELife, 2019, 8, .	2.8	54
34	Neuronal sFlt1 and Vegfaa determine venous sprouting and spinal cord vascularization. Nature Communications, 2017, 8, 13991.	5.8	53
35	Zebrafish facial lymphatics develop through sequential addition of venous and nonâ€venous progenitors. EMBO Reports, 2019, 20, .	2.0	46
36	Sox7 controls arterial specification in conjunction with hey2 and efnb2 function. Development (Cambridge), 2015, 142, 1695-704.	1.2	45

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37	SoxF factors induce Notch1 expression via direct transcriptional regulation during early arterial development. Development (Cambridge), 2017, 144, 2629-2639.	1.2	43
38	Specific fibroblast subpopulations and neuronal structures provide local sources of Vegfc-processing components during zebrafish lymphangiogenesis. Nature Communications, 2020, 11, 2724.	5.8	42
39	Vitamin K reduces hypermineralisation in zebrafish models of PXE and GACI. Development (Cambridge), 2015, 142, 1095-1101.	1.2	41
40	Functional Dissection of the CCBE1 Protein. Circulation Research, 2015, 116, 1660-1669.	2.0	39
41	Identification of novel osteogenic compounds by an ex-vivo sp7:luciferase zebrafish scale assay. Bone, 2015, 74, 106-113.	1.4	33
42	The GEF Trio controls endothelial cell size and arterial remodeling downstream of Vegf signaling in both zebrafish and cell models. Nature Communications, 2020, 11, 5319.	5.8	30
43	Genome-wide analysis revealsNRP1as a direct HIF1Î±-E2F7 target in the regulation of motorneuron guidancein vivo. Nucleic Acids Research, 2016, 44, 3549-3566.	6.5	29
44	Direct activation of chordoblasts by retinoic acid is required for segmented centra mineralization during zebrafish spine development. Development (Cambridge), 2018, 145, .	1.2	29
45	Multispecies RNA tomography reveals regulators of hematopoietic stem cell birth in the embryonic aorta. Blood, 2020, 136, 831-844.	0.6	28
46	A secure and extensible blockchain-based data provenance framework for the Internet of Things. Personal and Ubiquitous Computing, 0, , 1.	1.9	28
47	Zebrafish prox1b Mutants Develop a Lymphatic Vasculature, and prox1b Does Not Specifically Mark Lymphatic Endothelial Cells. PLoS ONE, 2011, 6, e28934.	1.1	27
48	From fish embryos to human patients: lymphangiogenesis in development and disease. Current Opinion in Immunology, 2018, 53, 167-172.	2.4	23
49	Endothelin receptor Aa regulates proliferation and differentiation of Erb-dependent pigment progenitors in zebrafish. PLoS Genetics, 2019, 15, e1007941.	1.5	22
50	Wilms Tumor 1b defines a wound-specific sheath cell subpopulation associated with notochord repair. ELife, 2018, 7, .	2.8	21
51	Cerebrovascular endothelial cells form transient Notchâ€dependent cystic structures in zebrafish. EMBO Reports, 2019, 20, e47047.	2.0	17
52	The RNA helicase Ddx21 controls Vegfc-driven developmental lymphangiogenesis by balancing endothelial cell ribosome biogenesis and p53 function. Nature Cell Biology, 2021, 23, 1136-1147.	4.6	17
53	A Fisheye View on Lymphangiogenesis. Advances in Anatomy, Embryology and Cell Biology, 2014, 214, 153-165.	1.0	15
54	Cost-optimized redundant data storage in the cloud. Service Oriented Computing and Applications, 2017, 11, 411-426.	1.3	14

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55	Meningeal lymphatic endothelial cells fulfill scavenger endothelial cell function and cooperate with microglia in waste removal from the brain. Glia, 2022, 70, 35-49.	2.5	11
56	A Novel Splice-Site Mutation in VEGFC Is Associated with Congenital Primary Lymphoedema of Gordon. International Journal of Molecular Sciences, 2018, 19, 2259.	1.8	10
57	The adaptor protein Grb2b is an essential modulator for lympho-venous sprout formation in the zebrafish trunk. Angiogenesis, 2021, 24, 345-362.	3.7	7
58	Proper migration of lymphatic endothelial cells requires survival and guidance cues from arterial mural cells. ELife, 2022, 11, .	2.8	6
59	mafba and mafbb differentially regulate lymphatic endothelial cell migration in topographically distinct manners. Cell Reports, 2022, 39, 110982.	2.9	6
60	FAM222B Is Not a Likely Novel Candidate Gene for Cerebral Cavernous Malformations. Molecular Syndromology, 2016, 7, 144-152.	0.3	5
61	Cells with Many Talents: Lymphatic Endothelial Cells in the Brain Meninges. Cells, 2021, 10, 799.	1.8	5
62	Muscle defects due to perturbed somite segmentation contribute to late adult scoliosis. Aging, 2020, 12, 18603-18621.	1.4	5
63	Notochord Injury Assays that Stimulate Transcriptional Responses in Zebrafish Larvae. Bio-protocol, 2018, 8, e3100.	0.2	5
64	Svep1 stabilises developmental vascular anastomosis in reduced flow conditions. Development (Cambridge), 2022, 149, .	1.2	4
65	Phosphatidylinositol-3 kinase signaling controls survival and stemness of hematopoietic stem and progenitor cells. Oncogene, 2021, 40, 2741-2755.	2.6	3
66	Cost-Efficient Data Redundancy in the Cloud. , 2016, , .		2