

Stefan Schulte-Merker

List of Publications by Citations

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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.

66

papers

5,264

citations

33

h-index

72

g-index

79

ext. papers

6,443

ext. citations

8.5

avg, IF

5.57

L-index

#	Paper	IF	Citations
66	Reverse genetic screening reveals poor correlation between morpholino-induced and mutant phenotypes in zebrafish. <i>Developmental Cell</i> , 2015 , 32, 97-108	10.2	532
65	tp53 mutant zebrafish develop malignant peripheral nerve sheath tumors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 407-12	11.5	473
64	Ccbe1 is required for embryonic lymphangiogenesis and venous sprouting. <i>Nature Genetics</i> , 2009 , 41, 396-8	36.3	336
63	Consensus guidelines for the use and interpretation of angiogenesis assays. <i>Angiogenesis</i> , 2018 , 21, 425-538	53.8	285
62	Lymphatic vascular morphogenesis in development, physiology, and disease. <i>Journal of Cell Biology</i> , 2011 , 193, 607-18	7.3	283
61	A novel multistep mechanism for initial lymphangiogenesis in mouse embryos based on ultramicroscopy. <i>EMBO Journal</i> , 2013 , 32, 629-44	13	207
60	Development of the zebrafish lymphatic system requires VEGFC signaling. <i>Current Biology</i> , 2006 , 16, 1244-8	6.3	206
59	Guidelines for morpholino use in zebrafish. <i>PLoS Genetics</i> , 2017 , 13, e1007000	6	190
58	Vegfc/Flt4 signalling is suppressed byDll4 in developing zebrafish intersegmental arteries. <i>Development (Cambridge)</i> , 2009 , 136, 4001-9	6.6	175
57	Retinoic acid and Cyp26b1 are critical regulators of osteogenesis in the axial skeleton. <i>Development (Cambridge)</i> , 2008 , 135, 3765-74	6.6	170
56	CCBE1 is essential for mammalian lymphatic vascular development and enhances the lymphangiogenic effect of vascular endothelial growth factor-C in vivo. <i>Circulation Research</i> , 2011 , 109, 486-91	15.7	152
55	Zebrafish: Housing and husbandry recommendations. <i>Laboratory Animals</i> , 2020 , 54, 213-224	2.6	148
54	Arteries provide essential guidance cues for lymphatic endothelial cells in the zebrafish trunk. <i>Development (Cambridge)</i> , 2010 , 137, 2653-7	6.6	138
53	Out with the old, in with the new: reassessing morpholino knockdowns in light of genome editing technology. <i>Development (Cambridge)</i> , 2014 , 141, 3103-4	6.6	132
52	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. <i>Circulation Research</i> , 2013 , 112, 956-60	15.7	120
51	Rapid BAC selection for tol2-mediated transgenesis in zebrafish. <i>Development (Cambridge)</i> , 2011 , 138, 4327-32	6.6	120
50	Ccbe1 regulates Vegfc-mediated induction of Vegfr3 signaling during embryonic lymphangiogenesis. <i>Development (Cambridge)</i> , 2014 , 141, 1239-49	6.6	113

49	Flt1 acts as a negative regulator of tip cell formation and branching morphogenesis in the zebrafish embryo. <i>Development (Cambridge)</i> , 2011 , 138, 2111-20	6.6	110
48	Divergence of zebrafish and mouse lymphatic cell fate specification pathways. <i>Development (Cambridge)</i> , 2014 , 141, 1228-38	6.6	106
47	Role of delta-like-4/Notch in the formation and wiring of the lymphatic network in zebrafish. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010 , 30, 1695-702	9.4	98
46	How to Plumb a Pisces: Understanding Vascular Development and Disease Using Zebrafish Embryos. <i>Developmental Cell</i> , 2017 , 42, 567-583	10.2	79
45	The zebrafish common cardinal veins develop by a novel mechanism: lumen ensheathment. <i>Development (Cambridge)</i> , 2013 , 140, 2776-86	6.6	78
44	Entpd5 is essential for skeletal mineralization and regulates phosphate homeostasis in zebrafish. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 21372-7	11.5	71
43	Mature osteoblasts dedifferentiate in response to traumatic bone injury in the zebrafish fin and skull. <i>Development (Cambridge)</i> , 2014 , 141, 2225-34	6.6	68
42	Not all bones are created equal - using zebrafish and other teleost species in osteogenesis research. <i>Methods in Cell Biology</i> , 2011 , 105, 239-55	1.8	67
41	Intracellular uptake of macromolecules by brain lymphatic endothelial cells during zebrafish embryonic development. <i>ELife</i> , 2017 , 6,	8.9	63
40	Zebrafish VEGF receptors: a guideline to nomenclature. <i>PLoS Genetics</i> , 2008 , 4, e1000064	6	57
39	Zebrafish enpp1 mutants exhibit pathological mineralization, mimicking features of generalized arterial calcification of infancy (GACI) and pseudoxanthoma elasticum (PXE). <i>DMM Disease Models and Mechanisms</i> , 2014 , 7, 811-22	4.1	40
38	An Evolutionarily Conserved Role for Polydom/Svep1 During Lymphatic Vessel Formation. <i>Circulation Research</i> , 2017 , 120, 1263-1275	15.7	36
37	A blood capillary plexus-derived population of progenitor cells contributes to genesis of the dermal lymphatic vasculature during embryonic development. <i>Development (Cambridge)</i> , 2018 , 145,	6.6	36
36	Sox7 controls arterial specification in conjunction with hey2 and efnb2 function. <i>Development (Cambridge)</i> , 2015 , 142, 1695-704	6.6	35
35	Late developing cardiac lymphatic vasculature supports adult zebrafish heart function and regeneration. <i>ELife</i> , 2019 , 8,	8.9	35
34	Neuronal sFlt1 and Vegfaa determine venous sprouting and spinal cord vascularization. <i>Nature Communications</i> , 2017 , 8, 13991	17.4	34
33	Vitamin K reduces hypermineralisation in zebrafish models of PXE and GACI. <i>Development (Cambridge)</i> , 2015 , 142, 1095-101	6.6	33
32	Spine Patterning Is Guided by Segmentation of the Notochord Sheath. <i>Cell Reports</i> , 2018 , 22, 2026-2038	10.6	33

31	Segmentation of the zebrafish axial skeleton relies on notochord sheath cells and not on the segmentation clock. <i>ELife</i> , 2018 , 7,	8.9	32
30	Functional Dissection of the CCBE1 Protein: A Crucial Requirement for the Collagen Repeat Domain. <i>Circulation Research</i> , 2015 , 116, 1660-9	15.7	30
29	Identification of novel osteogenic compounds by an ex-vivo sp7:luciferase zebrafish scale assay. <i>Bone</i> , 2015 , 74, 106-13	4.7	29
28	SoxF factors induce Notch1 expression via direct transcriptional regulation during early arterial development. <i>Development (Cambridge)</i> , 2017 , 144, 2629-2639	6.6	28
27	Zebrafish facial lymphatics develop through sequential addition of venous and non-venous progenitors. <i>EMBO Reports</i> , 2019 , 20,	6.5	24
26	Zebrafish prox1b mutants develop a lymphatic vasculature, and prox1b does not specifically mark lymphatic endothelial cells. <i>PLoS ONE</i> , 2011 , 6, e28934	3.7	23
25	Specific fibroblast subpopulations and neuronal structures provide local sources of Vegfc-processing components during zebrafish lymphangiogenesis. <i>Nature Communications</i> , 2020 , 11, 2724	17.4	22
24	Direct activation of chondroblasts by retinoic acid is required for segmented centra mineralization during zebrafish spine development. <i>Development (Cambridge)</i> , 2018 , 145,	6.6	18
23	Genome-wide analysis reveals NRP1 as a direct HIF1 α target in the regulation of motorneuron guidance in vivo. <i>Nucleic Acids Research</i> , 2016 , 44, 3549-66	20.1	16
22	From fish embryos to human patients: lymphangiogenesis in development and disease. <i>Current Opinion in Immunology</i> , 2018 , 53, 167-172	7.8	16
21	defines a wound-specific sheath cell subpopulation associated with notochord repair. <i>ELife</i> , 2018 , 7,	8.9	15
20	Endothelin receptor Aa regulates proliferation and differentiation of Erb-dependent pigment progenitors in zebrafish. <i>PLoS Genetics</i> , 2019 , 15, e1007941	6	13
19	Multispecies RNA tomography reveals regulators of hematopoietic stem cell birth in the embryonic aorta. <i>Blood</i> , 2020 , 136, 831-844	2.2	13
18	A fisheye view on lymphangiogenesis. <i>Advances in Anatomy, Embryology and Cell Biology</i> , 2014 , 214, 153-65		13
17	The GEF Trio controls endothelial cell size and arterial remodeling downstream of Vegf signaling in both zebrafish and cell models. <i>Nature Communications</i> , 2020 , 11, 5319	17.4	13
16	A secure and extensible blockchain-based data provenance framework for the Internet of Things. <i>Personal and Ubiquitous Computing</i> , 2020 , 1	2.1	11
15	Cerebrovascular endothelial cells form transient Notch-dependent cystic structures in zebrafish. <i>EMBO Reports</i> , 2019 , 20, e47047	6.5	10
14	A Novel Splice-Site Mutation in Is Associated with Congenital Primary Lymphoedema of Gordon. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	8

13	Cost-optimized redundant data storage in the cloud. <i>Service Oriented Computing and Applications</i> , 2017 , 11, 411-426	1.6	8
12	FAM222B Is Not a Likely Novel Candidate Gene for Cerebral Cavernous Malformations. <i>Molecular Syndromology</i> , 2016 , 7, 144-52	1.5	5
11	Notochord Injury Assays that Stimulate Transcriptional Responses in Zebrafish Larvae. <i>Bio-protocol</i> , 2018 , 8, e3100	0.9	5
10	The RNA helicase Ddx21 controls Vegfc-driven developmental lymphangiogenesis by balancing endothelial cell ribosome biogenesis and p53 function. <i>Nature Cell Biology</i> , 2021 , 23, 1136-1147	23.4	4
9	Endothelin receptor Aa regulates proliferation and differentiation of Erb-dependant pigment progenitors in zebrafish		3
8	Cells with Many Talents: Lymphatic Endothelial Cells in the Brain Meninges. <i>Cells</i> , 2021 , 10,	7.9	3
7	Meningeal lymphatic endothelial cells fulfill scavenger endothelial cell function and cooperate with microglia in waste removal from the brain. <i>Glia</i> , 2022 , 70, 35-49	9	3
6	Muscle defects due to perturbed somite segmentation contribute to late adult scoliosis. <i>Aging</i> , 2020 , 12, 18603-18621	5.6	2
5	Author response: Late developing cardiac lymphatic vasculature supports adult zebrafish heart function and regeneration 2019 ,		2
4	Meningeal lymphatic endothelial cells fulfill scavenger endothelial cell function and employ Mrc1a for cargo uptake		2
3	Cost-Efficient Data Redundancy in the Cloud 2016 ,		2
2	The adaptor protein Grb2b is an essential modulator for lympho-venous sprout formation in the zebrafish trunk. <i>Angiogenesis</i> , 2021 , 24, 345-362	10.6	1
1	Phosphatidylinositol-3 kinase signaling controls survival and stemness of hematopoietic stem and progenitor cells. <i>Oncogene</i> , 2021 , 40, 2741-2755	9.2	1