Stefan Schulte-Merker

List of Publications by Year in Descending Order

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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	Meningeal lymphatic endothelial cells fulfill scavenger endothelial cell function and cooperate with microglia in waste removal from the brain. *Glia*, **2022**, 70, 35-49	9	3
65	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	23.4	4
64	The adaptor protein Grb2b is an essential modulator for lympho-venous sprout formation in the zebrafish trunk. *Angiogenesis*, **2021**, 24, 345-362	10.6	1
63	Phosphatidylinositol-3 kinase signaling controls survival and stemness of hematopoietic stem and progenitor cells. *Oncogene*, **2021**, 40, 2741-2755	9.2	1
62	Cells with Many Talents: Lymphatic Endothelial Cells in the Brain Meninges. *Cells*, **2021**, 10,	7.9	3
61	Multispecies RNA tomography reveals regulators of hematopoietic stem cell birth in the embryonic aorta. *Blood*, **2020**, 136, 831-844	2.2	13
60	Specific fibroblast subpopulations and neuronal structures provide local sources of Vegfc-processing components during zebrafish lymphangiogenesis. *Nature Communications*, **2020**, 11, 2724	17.4	22
59	A secure and extensible blockchain-based data provenance framework for the Internet of Things. *Personal and Ubiquitous Computing*, **2020**, 1	2.1	11
58	Muscle defects due to perturbed somite segmentation contribute to late adult scoliosis. *Aging*, **2020**, 12, 18603-18621	5.6	2
57	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	17.4	13
56	Zebrafish: Housing and husbandry recommendations. *Laboratory Animals*, **2020**, 54, 213-224	2.6	148
55	Zebrafish facial lymphatics develop through sequential addition of venous and non-venous progenitors. *EMBO Reports*, **2019**, 20,	6.5	24
54	Endothelin receptor Aa regulates proliferation and differentiation of Erb-dependent pigment progenitors in zebrafish. *PLoS Genetics*, **2019**, 15, e1007941	6	13
53	Cerebrovascular endothelial cells form transient Notch-dependent cystic structures in zebrafish. *EMBO Reports*, **2019**, 20, e47047	6.5	10
52	Late developing cardiac lymphatic vasculature supports adult zebrafish heart function and regeneration. *ELife*, **2019**, 8,	8.9	35
51	Author response: Late developing cardiac lymphatic vasculature supports adult zebrafish heart function and regeneration **2019**,		2
50	Spine Patterning Is Guided by Segmentation of the Notochord Sheath. *Cell Reports*, **2018**, 22, 2026-2038	10.6	33

49	Direct activation of chordoblasts by retinoic acid is required for segmented centra mineralization during zebrafish spine development. *Development (Cambridge)*, **2018**, 145,	6.6	18
48	A Novel Splice-Site Mutation in Is Associated with Congenital Primary Lymphoedema of Gordon. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	8
47	Notochord Injury Assays that Stimulate Transcriptional Responses in Zebrafish Larvae. *Bio-protocol*, **2018**, 8, e3100	0.9	5
46	From fish embryos to human patients: lymphangiogenesis in development and disease. *Current Opinion in Immunology*, **2018**, 53, 167-172	7.8	16
45	Consensus guidelines for the use and interpretation of angiogenesis assays. *Angiogenesis*, **2018**, 21, 425-532	13.6	285
44	A blood capillary plexus-derived population of progenitor cells contributes to genesis of the dermal lymphatic vasculature during embryonic development. *Development (Cambridge)*, **2018**, 145,	6.6	36
43	defines a wound-specific sheath cell subpopulation associated with notochord repair. *ELife*, **2018**, 7,	8.9	15
42	Segmentation of the zebrafish axial skeleton relies on notochord sheath cells and not on the segmentation clock. *ELife*, **2018**, 7,	8.9	32
41	Neuronal sFlt1 and Vegfaa determine venous sprouting and spinal cord vascularization. *Nature Communications*, **2017**, 8, 13991	17.4	34
40	An Evolutionarily Conserved Role for Polydom/Svep1 During Lymphatic Vessel Formation. *Circulation Research*, **2017**, 120, 1263-1275	15.7	36
39	SoxF factors induce Notch1 expression via direct transcriptional regulation during early arterial development. *Development (Cambridge)*, **2017**, 144, 2629-2639	6.6	28
38	How to Plumb a Pisces: Understanding Vascular Development and Disease Using Zebrafish Embryos. *Developmental Cell*, **2017**, 42, 567-583	10.2	79
37	Cost-optimized redundant data storage in the cloud. *Service Oriented Computing and Applications*, **2017**, 11, 411-426	1.6	8
36	Guidelines for morpholino use in zebrafish. *PLoS Genetics*, **2017**, 13, e1007000	6	190
35	Intracellular uptake of macromolecules by brain lymphatic endothelial cells during zebrafish embryonic development. *ELife*, **2017**, 6,	8.9	63
34	FAM222B Is Not a Likely Novel Candidate Gene for Cerebral Cavernous Malformations. *Molecular Syndromology*, **2016**, 7, 144-52	1.5	5
33	Genome-wide analysis reveals NRP1 as a direct HIF1Ł E2F7 target in the regulation of motorneuron guidance in vivo. *Nucleic Acids Research*, **2016**, 44, 3549-66	20.1	16
32	Cost-Efficient Data Redundancy in the Cloud **2016**,		2

31	Vitamin K reduces hypermineralisation in zebrafish models of PXE and GACI. *Development (Cambridge)*, **2015**, 142, 1095-101	6.6	33
30	Functional Dissection of the CCBE1 Protein: A Crucial Requirement for the Collagen Repeat Domain. *Circulation Research*, **2015**, 116, 1660-9	15.7	30
29	Sox7 controls arterial specification in conjunction with hey2 and efnb2 function. *Development (Cambridge)*, **2015**, 142, 1695-704	6.6	35
28	Reverse genetic screening reveals poor correlation between morpholino-induced and mutant phenotypes in zebrafish. *Developmental Cell*, **2015**, 32, 97-108	10.2	532
27	Identification of novel osteogenic compounds by an ex-vivo sp7:luciferase zebrafish scale assay. *Bone*, **2015**, 74, 106-13	4.7	29
26	Mature osteoblasts dedifferentiate in response to traumatic bone injury in the zebrafish fin and skull. *Development (Cambridge)*, **2014**, 141, 2225-34	6.6	68
25	Out with the old, in with the new: reassessing morpholino knockdowns in light of genome editing technology. *Development (Cambridge)*, **2014**, 141, 3103-4	6.6	132
24	Zebrafish enpp1 mutants exhibit pathological mineralization, mimicking features of generalized arterial calcification of infancy (GACI) and pseudoxanthoma elasticum (PXE). *DMM Disease Models and Mechanisms*, **2014**, 7, 811-22	4.1	40
23	Ccbe1 regulates Vegfc-mediated induction of Vegfr3 signaling during embryonic lymphangiogenesis. *Development (Cambridge)*, **2014**, 141, 1239-49	6.6	113
22	A fisheye view on lymphangiogenesis. *Advances in Anatomy, Embryology and Cell Biology*, **2014**, 214, 153-65	1.5	13
21	Divergence of zebrafish and mouse lymphatic cell fate specification pathways. *Development (Cambridge)*, **2014**, 141, 1228-38	6.6	106
20	The zebrafish common cardinal veins develop by a novel mechanism: lumen ensheathment. *Development (Cambridge)*, **2013**, 140, 2776-86	6.6	78
19	A novel multistep mechanism for initial lymphangiogenesis in mouse embryos based on ultramicroscopy. *EMBO Journal*, **2013**, 32, 629-44	13	207
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, 956-60	15.7	120
17	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, 21372-7	11.5	71
16	Lymphatic vascular morphogenesis in development, physiology, and disease. *Journal of Cell Biology*, **2011**, 193, 607-18	7.3	283
15	Rapid BAC selection for tol2-mediated transgenesis in zebrafish. *Development (Cambridge)*, **2011**, 138, 4327-32	6.6	120
14	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, 486-91	15.7	152

13	Flt1 acts as a negative regulator of tip cell formation and branching morphogenesis in the zebrafish embryo. *Development (Cambridge)*, **2011**, 138, 2111-20	6.6	110
12	Not all bones are created equal - using zebrafish and other teleost species in osteogenesis research. *Methods in Cell Biology*, **2011**, 105, 239-55	1.8	67
11	Zebrafish prox1b mutants develop a lymphatic vasculature, and prox1b does not specifically mark lymphatic endothelial cells. *PLoS ONE*, **2011**, 6, e28934	3.7	23
10	Arteries provide essential guidance cues for lymphatic endothelial cells in the zebrafish trunk. *Development (Cambridge)*, **2010**, 137, 2653-7	6.6	138
9	Role of delta-like-4/Notch in the formation and wiring of the lymphatic network in zebrafish. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2010**, 30, 1695-702	9.4	98
8	Vegfc/Flt4 signalling is suppressed by Dll4 in developing zebrafish intersegmental arteries. *Development (Cambridge)*, **2009**, 136, 4001-9	6.6	175
7	Ccbe1 is required for embryonic lymphangiogenesis and venous sprouting. *Nature Genetics*, **2009**, 41, 396-8	36.3	336
6	Retinoic acid and Cyp26b1 are critical regulators of osteogenesis in the axial skeleton. *Development (Cambridge)*, **2008**, 135, 3765-74	6.6	170
5	Zebrafish VEGF receptors: a guideline to nomenclature. *PLoS Genetics*, **2008**, 4, e1000064	6	57
4	Development of the zebrafish lymphatic system requires VEGFC signaling. *Current Biology*, **2006**, 16, 1244-8	6.3	206
3	tp53 mutant zebrafish develop malignant peripheral nerve sheath tumors. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 407-12	11.5	473
2	Endothelin receptor Aa regulates proliferation and differentiation of Erb-dependant pigment progenitors in zebrafish		3
1	Meningeal lymphatic endothelial cells fulfill scavenger endothelial cell function and employ Mrc1a for cargo uptake		2