

Stefan Schulte-Merker

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

7,100
citations

101384

36
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102304

66
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79
all docs

79
docs citations

79
times ranked

8916
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	2.5	11
2	Proper migration of lymphatic endothelial cells requires survival and guidance cues from arterial mural cells. <i>ELife</i> , 2022, 11, .	2.8	6
3	Svep1 stabilises developmental vascular anastomosis in reduced flow conditions. <i>Development (Cambridge)</i> , 2022, 149, .	1.2	4
4	mafba and mafbb differentially regulate lymphatic endothelial cell migration in topographically distinct manners. <i>Cell Reports</i> , 2022, 39, 110982.	2.9	6
5	The adaptor protein Grb2b is an essential modulator for lympho-venous sprout formation in the zebrafish trunk. <i>Angiogenesis</i> , 2021, 24, 345-362.	3.7	7
6	Phosphatidylinositol-3 kinase signaling controls survival and stemness of hematopoietic stem and progenitor cells. <i>Oncogene</i> , 2021, 40, 2741-2755.	2.6	3
7	Cells with Many Talents: Lymphatic Endothelial Cells in the Brain Meninges. <i>Cells</i> , 2021, 10, 799.	1.8	5
8	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.	4.6	17
9	Zebrafish: Housing and husbandry recommendations. <i>Laboratory Animals</i> , 2020, 54, 213-224.	0.5	366
10	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.	5.8	30
11	Multispecies RNA tomography reveals regulators of hematopoietic stem cell birth in the embryonic aorta. <i>Blood</i> , 2020, 136, 831-844.	0.6	28
12	Specific fibroblast subpopulations and neuronal structures provide local sources of Vegfc-processing components during zebrafish lymphangiogenesis. <i>Nature Communications</i> , 2020, 11, 2724.	5.8	42
13	Muscle defects due to perturbed somite segmentation contribute to late adult scoliosis. <i>Aging</i> , 2020, 12, 18603-18621.	1.4	5
14	Cerebrovascular endothelial cells form transient Notch-dependent cystic structures in zebrafish. <i>EMBO Reports</i> , 2019, 20, e47047.	2.0	17
15	Zebrafish facial lymphatics develop through sequential addition of venous and non-venous progenitors. <i>EMBO Reports</i> , 2019, 20, .	2.0	46
16	Endothelin receptor Aa regulates proliferation and differentiation of Erb-dependent pigment progenitors in zebrafish. <i>PLoS Genetics</i> , 2019, 15, e1007941.	1.5	22
17	Late developing cardiac lymphatic vasculature supports adult zebrafish heart function and regeneration. <i>ELife</i> , 2019, 8, .	2.8	54
18	Spine Patterning Is Guided by Segmentation of the Notochord Sheath. <i>Cell Reports</i> , 2018, 22, 2026-2038.	2.9	59

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19	Direct activation of chordoblasts by retinoic acid is required for segmented centra mineralization during zebrafish spine development. <i>Development (Cambridge)</i> , 2018, 145, .	1.2	29
20	From fish embryos to human patients: lymphangiogenesis in development and disease. <i>Current Opinion in Immunology</i> , 2018, 53, 167-172.	2.4	23
21	Consensus guidelines for the use and interpretation of angiogenesis assays. <i>Angiogenesis</i> , 2018, 21, 425-532.	3.7	429
22	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, .	1.2	64
23	Wilms Tumor 1b defines a wound-specific sheath cell subpopulation associated with notochord repair. <i>ELife</i> , 2018, 7, .	2.8	21
24	Segmentation of the zebrafish axial skeleton relies on notochord sheath cells and not on the segmentation clock. <i>ELife</i> , 2018, 7, .	2.8	61
25	A Novel Splice-Site Mutation in VEGFC Is Associated with Congenital Primary Lymphoedema of Gordon. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2259.	1.8	10
26	Notochord Injury Assays that Stimulate Transcriptional Responses in Zebrafish Larvae. <i>Bio-protocol</i> , 2018, 8, e3100.	0.2	5
27	Neuronal sFlt1 and Vegfaa determine venous sprouting and spinal cord vascularization. <i>Nature Communications</i> , 2017, 8, 13991.	5.8	53
28	An Evolutionarily Conserved Role for Polydom/Svep1 During Lymphatic Vessel Formation. <i>Circulation Research</i> , 2017, 120, 1263-1275.	2.0	59
29	SoxF factors induce Notch1 expression via direct transcriptional regulation during early arterial development. <i>Development (Cambridge)</i> , 2017, 144, 2629-2639.	1.2	43
30	How to Plumb a Pisces: Understanding Vascular Development and Disease Using Zebrafish Embryos. <i>Developmental Cell</i> , 2017, 42, 567-583.	3.1	144
31	Cost-optimized redundant data storage in the cloud. <i>Service Oriented Computing and Applications</i> , 2017, 11, 411-426.	1.3	14
32	Guidelines for morpholino use in zebrafish. <i>PLoS Genetics</i> , 2017, 13, e1007000.	1.5	255
33	Intracellular uptake of macromolecules by brain lymphatic endothelial cells during zebrafish embryonic development. <i>ELife</i> , 2017, 6, .	2.8	93
34	Cost-Efficient Data Redundancy in the Cloud. , 2016, , .		2
35	FAM222B Is Not a Likely Novel Candidate Gene for Cerebral Cavernous Malformations. <i>Molecular Syndromology</i> , 2016, 7, 144-152.	0.3	5
36	Genome-wide analysis reveals <i>NRP1</i> as a direct HIF1 α -E2F7 target in the regulation of motorneuron guidance <i>in vivo</i> . <i>Nucleic Acids Research</i> , 2016, 44, 3549-3566.	6.5	29

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37	Identification of novel osteogenic compounds by an ex-vivo sp7:luciferase zebrafish scale assay. <i>Bone</i> , 2015, 74, 106-113.	1.4	33
38	Vitamin K reduces hypermineralisation in zebrafish models of PXE and GACI. <i>Development (Cambridge)</i> , 2015, 142, 1095-1101.	1.2	41
39	Functional Dissection of the CCBE1 Protein. <i>Circulation Research</i> , 2015, 116, 1660-1669.	2.0	39
40	Sox7 controls arterial specification in conjunction with <i>hey2</i> and <i>efnb2</i> function. <i>Development (Cambridge)</i> , 2015, 142, 1695-704.	1.2	45
41	Reverse Genetic Screening Reveals Poor Correlation between Morpholino-Induced and Mutant Phenotypes in Zebrafish. <i>Developmental Cell</i> , 2015, 32, 97-108.	3.1	666
42	Out with the old, in with the new: reassessing morpholino knockdowns in light of genome editing technology. <i>Development (Cambridge)</i> , 2014, 141, 3103-3104.	1.2	152
43	Pathological mineralization in a zebrafish <i>enpp1</i> mutant exhibits features of Generalized Arterial Calcification of Infancy (GACI) and Pseudoxanthoma Elasticum (PXE). <i>DMM Disease Models and Mechanisms</i> , 2014, 7, 811-22.	1.2	56
44	Ccbe1 regulates Vegfc-mediated induction of Vegfr3 signaling during embryonic lymphangiogenesis. <i>Development (Cambridge)</i> , 2014, 141, 1239-1249.	1.2	145
45	A Fisheye View on Lymphangiogenesis. <i>Advances in Anatomy, Embryology and Cell Biology</i> , 2014, 214, 153-165.	1.0	15
46	Divergence of zebrafish and mouse lymphatic cell fate specification pathways. <i>Development (Cambridge)</i> , 2014, 141, 1228-1238.	1.2	132
47	Mature osteoblasts dedifferentiate in response to traumatic bone injury in the zebrafish fin and skull. <i>Development (Cambridge)</i> , 2014, 141, 2225-2234.	1.2	96
48	The zebrafish common cardinal veins develop by a novel mechanism: lumen ensheathment. <i>Development (Cambridge)</i> , 2013, 140, 2776-2786.	1.2	120
49	A novel multistep mechanism for initial lymphangiogenesis in mouse embryos based on ultramicroscopy. <i>EMBO Journal</i> , 2013, 32, 629-644.	3.5	252
50	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, 956-960.	2.0	143
51	<i>Entpd5</i> 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, 21372-21377.	3.3	91
52	Lymphatic vascular morphogenesis in development, physiology, and disease. <i>Journal of Cell Biology</i> , 2011, 193, 607-618.	2.3	344
53	Rapid BAC selection for <i>tol2</i> -mediated transgenesis in zebrafish. <i>Development (Cambridge)</i> , 2011, 138, 4327-4332.	1.2	160
54	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, 486-491.	2.0	175

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55	Flt1 acts as a negative regulator of tip cell formation and branching morphogenesis in the zebrafish embryo. <i>Development (Cambridge)</i> , 2011, 138, 2111-2120.	1.2	142
56	Not All Bones are Created Equal – Using Zebrafish and Other Teleost Species in Osteogenesis Research. <i>Methods in Cell Biology</i> , 2011, 105, 239-255.	0.5	77
57	Zebrafish prox1b Mutants Develop a Lymphatic Vasculature, and prox1b Does Not Specifically Mark Lymphatic Endothelial Cells. <i>PLoS ONE</i> , 2011, 6, e28934.	1.1	27
58	Arteries provide essential guidance cues for lymphatic endothelial cells in the zebrafish trunk. <i>Development (Cambridge)</i> , 2010, 137, 2653-2657.	1.2	176
59	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, 1695-1702.	1.1	118
60	Vegfc/Flt4 signalling is suppressed by Dll4 in developing zebrafish intersegmental arteries. <i>Development (Cambridge)</i> , 2009, 136, 4001-4009.	1.2	205
61	ccbe1 is required for embryonic lymphangiogenesis and venous sprouting. <i>Nature Genetics</i> , 2009, 41, 396-398.	9.4	409
62	Retinoic acid and Cyp26b1 are critical regulators of osteogenesis in the axial skeleton. <i>Development (Cambridge)</i> , 2008, 135, 3765-3774.	1.2	218
63	Zebrafish VEGF Receptors: A Guideline to Nomenclature. <i>PLoS Genetics</i> , 2008, 4, e1000064.	1.5	66
64	Development of the Zebrafish Lymphatic System Requires Vegfc Signaling. <i>Current Biology</i> , 2006, 16, 1244-1248.	1.8	245
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, 407-412.	3.3	559
66	A secure and extensible blockchain-based data provenance framework for the Internet of Things. <i>Personal and Ubiquitous Computing</i> , 0, , 1.	1.9	28