Heinz-Georg Belting

List of Publications by Year
in descending order

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46 papers	3,461 citations	172386 29 h-index	254106 43 g-index
52 all docs	52 docs citations	52 times ranked	4940 citing authors

#	Article	IF	Citations
1	Complex cell rearrangements during intersegmental vessel sprouting and vessel fusion in the zebrafish embryo. Developmental Biology, 2008, 316, 312-322.	0.9	276
2	Flow-Dependent Endothelial YAP Regulation Contributes to Vessel Maintenance. Developmental Cell, 2017, 40, 523-536.e6.	3.1	233
3	Distinct Cellular Mechanisms of Blood Vessel Fusion in the Zebrafish Embryo. Current Biology, 2011, 21, 1942-1948.	1.8	205
4	Cell behaviors and dynamics during angiogenesis. Development (Cambridge), 2016, 143, 2249-2260.	1.2	174
5	Vascular morphogenesis in the zebrafish embryo. Developmental Biology, 2010, 341, 56-65.	0.9	172
6	Semaphorin-PlexinD1 Signaling Limits Angiogenic Potential via the VEGF Decoy Receptor sFlt1. Developmental Cell, 2011, 21, 301-314.	3.1	145
7	Oscillatory Flow Modulates Mechanosensitive klf2a Expression through trpv4 and trpp2 during Heart Valve Development. Current Biology, 2015, 25, 1354-1361.	1.8	143
8	InÂVivo Analysis Reveals a Highly Stereotypic Morphogenetic Pathway of Vascular Anastomosis. Developmental Cell, 2013, 25, 492-506.	3.1	138
9	Cdh5/VE-cadherin Promotes Endothelial Cell Interface Elongation via Cortical Actin Polymerization during Angiogenic Sprouting. Cell Reports, 2014, 9, 504-513.	2.9	135
10	Zebrafish pou5f1/pou2, Homolog of Mammalian Oct4, Functions in the Endoderm Specification Cascade. Current Biology, 2004, 14, 48-55.	1.8	132
11	The zebrafish common cardinal veins develop by a novel mechanism: lumen ensheathment. Development (Cambridge), 2013, 140, 2776-2786.	1.2	120
12	VE-PTP regulates VEGFR2 activity in stalk cells to establish endothelial cell polarity and lumen formation. Nature Communications, 2013, 4, 1672.	5.8	120
13	Endothelial Cell Self-fusion during Vascular Pruning. PLoS Biology, 2015, 13, e1002126.	2.6	119
14	The evolution of cichlid fish egg-spots is linked with a cis-regulatory change. Nature Communications, 2014, 5, 5149.	5.8	110
15	Blood Flow Changes Coincide with Cellular Rearrangements during Blood Vessel Pruning in Zebrafish Embryos. PLoS ONE, 2013, 8, e75060.	1.1	106
16	Modification of expression and cis-regulation of Hoxc8 in the evolution of diverged axial morphology. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 2355-2360.	3.3	101
17	spiel ohne grenzen/pou2is required during establishment of the zebrafish midbrain-hindbrain boundary organizer. Development (Cambridge), 2001, 128, 4165-4176.	1.2	91
18	Formin-Mediated Actin Polymerization at Endothelial Junctions Is Required for Vessel Lumen Formation and Stabilization. Developmental Cell, 2015, 32, 123-132.	3.1	87

#	Article	IF	Citations
19	Transgene driving GFP expression from the promoter of the zona pellucida genezpcis expressed in oocytes and provides an early marker for gonad differentiation in zebrafish. Developmental Dynamics, 2003, 228, 393-404.	0.8	76
20	The tip cell concept 10 years after: New players tune in for a common theme. Experimental Cell Research, 2013, 319, 1255-1263.	1.2	76
21	Live imaging molecular changes in junctional tension upon VE-cadherin in zebrafish. Nature Communications, 2017, 8, 1402.	5.8	73
22	Wnt/Î²-catenin signaling regulates VE-cadherin-mediated anastomosis of brain capillaries by counteracting S1pr1 signaling. Nature Communications, 2018, 9, 4860.	5.8	66
23	The Hypothalamic Neuropeptide Oxytocin Is Required for Formation of the Neurovascular Interface of the Pituitary. Developmental Cell, 2011, 21, 642-654.	3.1	58
24	AmotL2 links VE-cadherin to contractile actin fibres necessary for aortic lumen expansion. Nature Communications, 2014, 5, 3743.	5.8	56
25	Endothelial cell rearrangements during vascular patterning require PI3-kinase-mediated inhibition of actomyosin contractility. Nature Communications, 2018, 9, 4826.	5.8	53
26	The novel transmembrane protein Tmem2 is essential for coordination of myocardial and endocardial morphogenesis. Development (Cambridge), 2011, 138, 4199-4205.	1.2	52
27	Junction-based lamellipodia drive endothelial cell rearrangements in vivo via a VE-cadherin-F-actin based oscillatory cell-cell interaction. Nature Communications, 2018, 9, 3545.	5.8	48
28	Pou5f1 contributes to dorsoventral patterning by positive regulation of vox and modulation of fgf8a expression. Developmental Biology, 2011, 356, 323-336.	0.9	46
29	Multiple phases of expression and regulation of mouseHoxc8 during early embryogenesis. The Journal of Experimental Zoology, 1998, 282, 196-222.	1.4	42
30	Distinct and redundant functions of Esam and VE-cadherin during vascular morphogenesis. Development (Cambridge), 2017, 144, 1554-1565.	1.2	30
31	spiel ohne grenzen/pou2is required for zebrafish hindbrain segmentation. Development (Cambridge), 2002, 129, 1645-1655.	1.2	28
32	Absence of 11-keto reduction of cortisone and 11-ketotestosterone in the model organism zebrafish. Journal of Endocrinology, 2017, 232, 323-335.	1.2	22
33	Plasminogen Activator Inhibitor-1 Controls Vascular Integrity by Regulating VE-Cadherin Trafficking. PLoS ONE, 2015, 10, e0145684.	1.1	21
34	Vinculin controls endothelial cell junction dynamics during vascular lumen formation. Cell Reports, 2022, 39, 110658.	2.9	20
35	Sprouting and anastomosis in the Drosophila trachea and the vertebrate vasculature: Similarities and differences in cell behaviour. Vascular Pharmacology, 2019, 112, 8-16.	1.0	19
36	Endothelial cell mechanics and blood flow forces in vascular morphogenesis. Seminars in Cell and Developmental Biology, 2021, 120, 32-43.	2.3	16

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37	Phylogenetically conserved CK-II phosphorylation site of the murine homeodomain protein Hoxb-6. , 1999, 285, 76-84.		13
38	Endothelial cell division in angiogenic sprouts of differing cellular architecture. Biology Open, 2015, 4, 1259-1269.	0.6	13
39	ErbB4 tyrosine kinase inhibition impairs neuromuscular development in zebrafish embryos. Molecular Biology of the Cell, 2019, 30, 209-218.	0.9	7
40	The tight junctions protein Claudin-5 limits endothelial cell motility. Journal of Cell Science, 2021, 134, .	1.2	6
41	Building the complex architectures of vascular networks: Where to branch, where to connect and where to remodel?. Current Topics in Developmental Biology, 2021, 143, 281-297.	1.0	5
42	It takes guts to make a single lumen. Nature Cell Biology, 2007, 9, 880-881.	4.6	4
43	Mapping the molecular steps of secretory-lysosome-driven tracheal tube fusion. Nature Cell Biology, 2016, 18, 720-722.	4.6	1
44	Vinculin Controls Endothelial Cell Junction Dynamics During Vascular Lumen Formation. SSRN Electronic Journal, 0, , .	0.4	1
45	Control of dynamic cell behaviors during angiogenesis and anastomosis by Rasip1. Development (Cambridge), 2021, 148, .	1.2	1
46	Distinct and redundant functions of Esama and VE-cadherin during vascular morphogenesis. Journal of Cell Science, 2017, 130, e1.1-e1.1.	1.2	0