Markus Affolter

List of Publications by Year
in descending order

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63 papers	5,789 citations	87723 38 h-index	114278 63 g-index
79 all docs	79 docs citations	79 times ranked	6678 citing authors

#	Article	IF	Citations
1	Nanobody-Based GFP Traps to Study Protein Localization and Function in Developmental Biology. Methods in Molecular Biology, 2022, 2446, 581-593.	0.4	2
2	Vinculin controls endothelial cell junction dynamics during vascular lumen formation. Cell Reports, 2022, 39, 110658.	2.9	20
3	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
4	Protein manipulation using single copies of short peptide tags in cultured cells and in <i>Drosophila melanogaster</i>. Development (Cambridge), 2021, 148, .	1.2	17
5	Control of dynamic cell behaviors during angiogenesis and anastomosis by Rasip1. Development (Cambridge), 2021, 148, .	1.2	1
6	Asymmetric requirement of Dpp/BMP morphogen dispersal in the Drosophila wing disc. Nature Communications, 2021, 12, 6435.	5.8	22
7	Probing the Effects of the FGFR-Inhibitor Derazantinib on Vascular Development in Zebrafish Embryos. Pharmaceuticals, 2021, 14, 25.	1.7	4
8	Regulation of BMP4/Dpp retrotranslocation and signaling by deglycosylation. ELife, 2020, 9, .	2.8	30
9	Reflections on the use of protein binders to study protein function in developmental biology. Wiley Interdisciplinary Reviews: Developmental Biology, 2019, 8, e356.	5.9	17
10	Using Nanobodies to Study Protein Function in Developing Organisms. Antibodies, 2019, 8, 16.	1.2	25
11	Drosophila research: From the genome to the proteome. Comptes Rendus - Biologies, 2019, 342, 248-249.	0.1	0
12	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
13	Protein binders and their applications in developmental biology. Development (Cambridge), 2018, 145, .	1.2	54
14	Endothelial cell rearrangements during vascular patterning require PI3-kinase-mediated inhibition of actomyosin contractility. Nature Communications, 2018, 9, 4826.	5.8	53
15	Wnt/Î²-catenin signaling regulates VE-cadherin-mediated anastomosis of brain capillaries by counteracting S1pr1 signaling. Nature Communications, 2018, 9, 4860.	5.8	66
16	DARPins recognizing mTFP1 as novel reagents for <i>in vitro</i> and <i>in vivo</i> protein manipulations. Biology Open, 2018, 7, .	0.6	7
17	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
18	Distinct and redundant functions of Esam and VE-cadherin during vascular morphogenesis. Development (Cambridge), 2017, 144, 1554-1565.	1.2	30

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19	Flow-Dependent Endothelial YAP Regulation Contributes to Vessel Maintenance. Developmental Cell, 2017, 40, 523-536.e6.	3.1	233
20	Myosin II is not required for<i>Drosophila</i>tracheal branch elongation and cell intercalation. Development (Cambridge), 2017, 144, 2961-2968.	1.2	26
21	Spatio-temporally separated cortical flows and spindle geometry establish physical asymmetry in fly neural stem cells. Nature Communications, 2017, 8, 1383.	5.8	70
22	Live imaging molecular changes in junctional tension upon VE-cadherin in zebrafish. Nature Communications, 2017, 8, 1402.	5.8	73
23	Myosin II is not required for Drosophila tracheal branch elongation and cell intercalation. Journal of Cell Science, 2017, 130, e1.1-e1.1.	1.2	2
24	Dpp from the anterior stripe of cells is crucial for the growth of the Drosophila wing disc. ELife, 2017, 6, .	2.8	31
25	A nanobody-based toolset to investigate the role of protein localization and dispersal in Drosophila. ELife, 2017, 6, .	2.8	91
26	Cell behaviors and dynamics during angiogenesis. Development (Cambridge), 2016, 143, 2249-2260.	1.2	174
27	deGradFP: A System to Knockdown GFP-Tagged Proteins. Methods in Molecular Biology, 2016, 1478, 177-187.	0.4	37
28	Amnioserosa cell constriction but not epidermal actin cable tension autonomously drives dorsal closure. Nature Cell Biology, 2016, 18, 1161-1172.	4.6	74
29	BMP morphogen gradients in flies. Cytokine and Growth Factor Reviews, 2016, 27, 119-127.	3.2	36
30	Formin-Mediated Actin Polymerization at Endothelial Junctions Is Required for Vessel Lumen Formation and Stabilization. Developmental Cell, 2015, 32, 123-132.	3.1	87
31	Endothelial Cell Self-fusion during Vascular Pruning. PLoS Biology, 2015, 13, e1002126.	2.6	119
32	Endothelial cell division in angiogenic sprouts of differing cellular architecture. Biology Open, 2015, 4, 1259-1269.	0.6	13
33	Dpp spreading is required for medial but not for lateral wing disc growth. Nature, 2015, 527, 317-322.	13.7	116
34	Protein interference applications in cellular and developmental biology using DARPins that recognize GFP and mCherry. Biology Open, 2014, 3, 1252-1261.	0.6	73
35	Raeppli: a whole-tissue labeling tool for live imaging of <i>Drosophila</i> development. Development (Cambridge), 2014, 141, 472-480.	1.2	52
36	Cdh5/VE-cadherin Promotes Endothelial Cell Interface Elongation via Cortical Actin Polymerization during Angiogenic Sprouting. Cell Reports, 2014, 9, 504-513.	2.9	135

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37	Dpp/BMP signaling in flies: From molecules to biology. Seminars in Cell and Developmental Biology, 2014, 32, 128-136.	2.3	119
38	Protein Knockouts in Living Eukaryotes Using deGradFP and Green Fluorescent Protein Fusion Targets. Current Protocols in Protein Science, 2013, 73, 30.2.1-30.2.13.	2.8	23
39	InÂVivo Analysis Reveals a Highly Stereotypic Morphogenetic Pathway of Vascular Anastomosis. Developmental Cell, 2013, 25, 492-506.	3.1	138
40	The zebrafish common cardinal veins develop by a novel mechanism: lumen ensheathment. Development (Cambridge), 2013, 140, 2776-2786.	1.2	120
41	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
42	Blood Flow Changes Coincide with Cellular Rearrangements during Blood Vessel Pruning in Zebrafish Embryos. PLoS ONE, 2013, 8, e75060.	1.1	106
43	Branching Morphogenesis: From Cells to Organs and Back. Cold Spring Harbor Perspectives in Biology, 2012, 4, a008243-a008243.	2.3	99
44	Fluorescent fusion protein knockout mediated by anti-GFP nanobody. Nature Structural and Molecular Biology, 2012, 19, 117-121.	3.6	427
45	Semaphorin-PlexinD1 Signaling Limits Angiogenic Potential via the VEGF Decoy Receptor sFlt1. Developmental Cell, 2011, 21, 301-314.	3.1	145
46	Distinct Cellular Mechanisms of Blood Vessel Fusion in the Zebrafish Embryo. Current Biology, 2011, 21, 1942-1948.	1.8	205
47	Formation of the Long Range Dpp Morphogen Gradient. PLoS Biology, 2011, 9, e1001111.	2.6	75
48	Dpp Signaling Activity Requires Pentagone to Scale with Tissue Size in the Growing Drosophila Wing Imaginal Disc. PLoS Biology, 2011, 9, e1001182.	2.6	107
49	Control of Dpp morphogen signalling by a secreted feedback regulator. Nature Cell Biology, 2010, 12, 611-617.	4.6	121
50	Vascular morphogenesis in the zebrafish embryo. Developmental Biology, 2010, 341, 56-65.	0.9	172
51	Regulation of cardiovascular development and integrity by the heart of glassâ€“cerebral cavernous malformation protein pathway. Nature Medicine, 2009, 15, 169-176.	15.2	217
52	Tissue remodelling through branching morphogenesis. Nature Reviews Molecular Cell Biology, 2009, 10, 831-842.	16.1	172
53	Chapter 6 Cellular and Molecular Mechanisms Underlying the Formation of Biological Tubes. Current Topics in Developmental Biology, 2009, 89, 137-162.	1.0	40
54	Tip-Cell Migration Controls Stalk-Cell Intercalation during Drosophila Tracheal Tube Elongation. Current Biology, 2008, 18, 1727-1734.	1.8	130

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55	Complex cell rearrangements during intersegmental vessel sprouting and vessel fusion in the zebrafish embryo. Developmental Biology, 2008, 316, 312-322.	0.9	276
56	Tracheal branching morphogenesis in<i>Drosophila</i>: new insights into cell behaviour and organ architecture. Development (Cambridge), 2008, 135, 2055-2064.	1.2	133
57	The Decapentaplegic morphogen gradient: from pattern formation to growth regulation. Nature Reviews Genetics, 2007, 8, 663-674.	7.7	351
58	Remodelling epithelial tubes through cell rearrangements: from cells to molecules. EMBO Reports, 2006, 7, 36-40.	2.0	29
59	Genetic Control of Cell Intercalation during Tracheal Morphogenesis in Drosophila. Current Biology, 2004, 14, 2197-2207.	1.8	136
60	Epithelial tube morphogenesis during Drosophila tracheal development requires Piopio, a luminal ZP protein. Nature Cell Biology, 2003, 5, 895-901.	4.6	155
61	Tracheal development in Drosophila melanogaster as a model system for studying the development of a branched organ. Gene, 2002, 287, 55-66.	1.0	12
62	Biochemical and Biophysical Characterization of RefoldedDrosophila DPP, a Homolog of Bone Morphogenetic Proteins 2 and 4. Journal of Biological Chemistry, 1998, 273, 29052-29065.	1.6	47
63	Receptor serine/threonine kinases implicated in the control of Drosophila body pattern by decapentaplegic. Cell, 1994, 78, 225-237.	13.5	279