

Markus Affolter

List of Publications by Year in descending order

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Version: 2024-02-01

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	Fluorescent fusion protein knockout mediated by anti-GFP nanobody. <i>Nature Structural and Molecular Biology</i> , 2012, 19, 117-121.	3.6	427
2	The Decapentaplegic morphogen gradient: from pattern formation to growth regulation. <i>Nature Reviews Genetics</i> , 2007, 8, 663-674.	7.7	351
3	Receptor serine/threonine kinases implicated in the control of <i>Drosophila</i> body pattern by decapentaplegic. <i>Cell</i> , 1994, 78, 225-237.	13.5	279
4	Complex cell rearrangements during intersegmental vessel sprouting and vessel fusion in the zebrafish embryo. <i>Developmental Biology</i> , 2008, 316, 312-322.	0.9	276
5	Flow-Dependent Endothelial YAP Regulation Contributes to Vessel Maintenance. <i>Developmental Cell</i> , 2017, 40, 523-536.e6.	3.1	233
6	Regulation of cardiovascular development and integrity by the heart of glass“cerebral cavernous malformation protein pathway. <i>Nature Medicine</i> , 2009, 15, 169-176.	15.2	217
7	Distinct Cellular Mechanisms of Blood Vessel Fusion in the Zebrafish Embryo. <i>Current Biology</i> , 2011, 21, 1942-1948.	1.8	205
8	Cell behaviors and dynamics during angiogenesis. <i>Development (Cambridge)</i> , 2016, 143, 2249-2260.	1.2	174
9	Tissue remodelling through branching morphogenesis. <i>Nature Reviews Molecular Cell Biology</i> , 2009, 10, 831-842.	16.1	172
10	Vascular morphogenesis in the zebrafish embryo. <i>Developmental Biology</i> , 2010, 341, 56-65.	0.9	172
11	Epithelial tube morphogenesis during <i>Drosophila</i> tracheal development requires Piopio, a luminal ZP protein. <i>Nature Cell Biology</i> , 2003, 5, 895-901.	4.6	155
12	Semaphorin-PlexinD1 Signaling Limits Angiogenic Potential via the VEGF Decoy Receptor sFlt1. <i>Developmental Cell</i> , 2011, 21, 301-314.	3.1	145
13	InVivo Analysis Reveals a Highly Stereotypic Morphogenetic Pathway of Vascular Anastomosis. <i>Developmental Cell</i> , 2013, 25, 492-506.	3.1	138
14	Genetic Control of Cell Intercalation during Tracheal Morphogenesis in <i>Drosophila</i> . <i>Current Biology</i> , 2004, 14, 2197-2207.	1.8	136
15	Cdh5/VE-cadherin Promotes Endothelial Cell Interface Elongation via Cortical Actin Polymerization during Angiogenic Sprouting. <i>Cell Reports</i> , 2014, 9, 504-513.	2.9	135
16	Tracheal branching morphogenesis in <i>Drosophila</i> : new insights into cell behaviour and organ architecture. <i>Development (Cambridge)</i> , 2008, 135, 2055-2064.	1.2	133
17	Tip-Cell Migration Controls Stalk-Cell Intercalation during <i>Drosophila</i> Tracheal Tube Elongation. <i>Current Biology</i> , 2008, 18, 1727-1734.	1.8	130
18	Control of Dpp morphogen signalling by a secreted feedback regulator. <i>Nature Cell Biology</i> , 2010, 12, 611-617.	4.6	121

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19	The zebrafish common cardinal veins develop by a novel mechanism: lumen ensheathment. <i>Development (Cambridge)</i> , 2013, 140, 2776-2786.	1.2	120
20	Dpp/BMP signaling in flies: From molecules to biology. <i>Seminars in Cell and Developmental Biology</i> , 2014, 32, 128-136.	2.3	119
21	Endothelial Cell Self-fusion during Vascular Pruning. <i>PLoS Biology</i> , 2015, 13, e1002126.	2.6	119
22	Dpp spreading is required for medial but not for lateral wing disc growth. <i>Nature</i> , 2015, 527, 317-322.	13.7	116
23	Dpp Signaling Activity Requires Pentagone to Scale with Tissue Size in the Growing Drosophila Wing Imaginal Disc. <i>PLoS Biology</i> , 2011, 9, e1001182.	2.6	107
24	Blood Flow Changes Coincide with Cellular Rearrangements during Blood Vessel Pruning in Zebrafish Embryos. <i>PLoS ONE</i> , 2013, 8, e75060.	1.1	106
25	Branching Morphogenesis: From Cells to Organs and Back. <i>Cold Spring Harbor Perspectives in Biology</i> , 2012, 4, a008243-a008243.	2.3	99
26	A nanobody-based toolset to investigate the role of protein localization and dispersal in Drosophila. <i>ELife</i> , 2017, 6, .	2.8	91
27	Formin-Mediated Actin Polymerization at Endothelial Junctions Is Required for Vessel Lumen Formation and Stabilization. <i>Developmental Cell</i> , 2015, 32, 123-132.	3.1	87
28	The tip cell concept 10 years after: New players tune in for a common theme. <i>Experimental Cell Research</i> , 2013, 319, 1255-1263.	1.2	76
29	Formation of the Long Range Dpp Morphogen Gradient. <i>PLoS Biology</i> , 2011, 9, e1001111.	2.6	75
30	Amnioserosa cell constriction but not epidermal actin cable tension autonomously drives dorsal closure. <i>Nature Cell Biology</i> , 2016, 18, 1161-1172.	4.6	74
31	Protein interference applications in cellular and developmental biology using DARPins that recognize GFP and mCherry. <i>Biology Open</i> , 2014, 3, 1252-1261.	0.6	73
32	Live imaging molecular changes in junctional tension upon VE-cadherin in zebrafish. <i>Nature Communications</i> , 2017, 8, 1402.	5.8	73
33	Spatio-temporally separated cortical flows and spindle geometry establish physical asymmetry in fly neural stem cells. <i>Nature Communications</i> , 2017, 8, 1383.	5.8	70
34	Wnt/ β -catenin signaling regulates VE-cadherin-mediated anastomosis of brain capillaries by counteracting S1pr1 signaling. <i>Nature Communications</i> , 2018, 9, 4860.	5.8	66
35	Protein binders and their applications in developmental biology. <i>Development (Cambridge)</i> , 2018, 145, .	1.2	54
36	Endothelial cell rearrangements during vascular patterning require PI3-kinase-mediated inhibition of actomyosin contractility. <i>Nature Communications</i> , 2018, 9, 4826.	5.8	53

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37	Raeppli: a whole-tissue labeling tool for live imaging of <i>Drosophila</i> development. <i>Development</i> (Cambridge), 2014, 141, 472-480.	1.2	52
38	Junction-based lamellipodia drive endothelial cell rearrangements in vivo via a VE-cadherin-F-actin based oscillatory cell-cell interaction. <i>Nature Communications</i> , 2018, 9, 3545.	5.8	48
39	Biochemical and Biophysical Characterization of Refolded <i>Drosophila</i> DPP, a Homolog of Bone Morphogenetic Proteins 2 and 4. <i>Journal of Biological Chemistry</i> , 1998, 273, 29052-29065.	1.6	47
40	Chapter 6 Cellular and Molecular Mechanisms Underlying the Formation of Biological Tubes. <i>Current Topics in Developmental Biology</i> , 2009, 89, 137-162.	1.0	40
41	deGradFP: A System to Knockdown GFP-Tagged Proteins. <i>Methods in Molecular Biology</i> , 2016, 1478, 177-187.	0.4	37
42	BMP morphogen gradients in flies. <i>Cytokine and Growth Factor Reviews</i> , 2016, 27, 119-127.	3.2	36
43	Dpp from the anterior stripe of cells is crucial for the growth of the <i>Drosophila</i> wing disc. <i>ELife</i> , 2017, 6, .	2.8	31
44	Distinct and redundant functions of Esam and VE-cadherin during vascular morphogenesis. <i>Development</i> (Cambridge), 2017, 144, 1554-1565.	1.2	30
45	Regulation of BMP4/Dpp retrotranslocation and signaling by deglycosylation. <i>ELife</i> , 2020, 9, .	2.8	30
46	Remodelling epithelial tubes through cell rearrangements: from cells to molecules. <i>EMBO Reports</i> , 2006, 7, 36-40.	2.0	29
47	Myosin II is not required for <i>Drosophila</i> tracheal branch elongation and cell intercalation. <i>Development</i> (Cambridge), 2017, 144, 2961-2968.	1.2	26
48	Using Nanobodies to Study Protein Function in Developing Organisms. <i>Antibodies</i> , 2019, 8, 16.	1.2	25
49	Protein Knockouts in Living Eukaryotes Using deGradFP and Green Fluorescent Protein Fusion Targets. <i>Current Protocols in Protein Science</i> , 2013, 73, 30.2.1-30.2.13.	2.8	23
50	Asymmetric requirement of Dpp/BMP morphogen dispersal in the <i>Drosophila</i> wing disc. <i>Nature Communications</i> , 2021, 12, 6435.	5.8	22
51	Vinculin controls endothelial cell junction dynamics during vascular lumen formation. <i>Cell Reports</i> , 2022, 39, 110658.	2.9	20
52	Sprouting and anastomosis in the <i>Drosophila</i> trachea and the vertebrate vasculature: Similarities and differences in cell behaviour. <i>Vascular Pharmacology</i> , 2019, 112, 8-16.	1.0	19
53	Reflections on the use of protein binders to study protein function in developmental biology. <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , 2019, 8, e356.	5.9	17
54	Protein manipulation using single copies of short peptide tags in cultured cells and in <i>Drosophila melanogaster</i> . <i>Development</i> (Cambridge), 2021, 148, .	1.2	17

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55	Endothelial cell division in angiogenic sprouts of differing cellular architecture. <i>Biology Open</i> , 2015, 4, 1259-1269.	0.6	13
56	Tracheal development in <i>Drosophila melanogaster</i> as a model system for studying the development of a branched organ. <i>Gene</i> , 2002, 287, 55-66.	1.0	12
57	DARPin recognizing mTFP1 as novel reagents for <i>in vitro</i> and <i>in vivo</i> protein manipulations. <i>Biology Open</i> , 2018, 7, .	0.6	7
58	Building the complex architectures of vascular networks: Where to branch, where to connect and where to remodel?. <i>Current Topics in Developmental Biology</i> , 2021, 143, 281-297.	1.0	5
59	Probing the Effects of the FGFR-Inhibitor Derazantinib on Vascular Development in Zebrafish Embryos. <i>Pharmaceuticals</i> , 2021, 14, 25.	1.7	4
60	Myosin II is not required for <i>Drosophila</i> tracheal branch elongation and cell intercalation. <i>Journal of Cell Science</i> , 2017, 130, e1.1-e1.1.	1.2	2
61	Nanobody-Based GFP Traps to Study Protein Localization and Function in Developmental Biology. <i>Methods in Molecular Biology</i> , 2022, 2446, 581-593.	0.4	2
62	Control of dynamic cell behaviors during angiogenesis and anastomosis by Rasip1. <i>Development (Cambridge)</i> , 2021, 148, .	1.2	1
63	<i>Drosophila</i> research: From the genome to the proteome. <i>Comptes Rendus - Biologies</i> , 2019, 342, 248-249.	0.1	0