

Katie Bentley

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

3,392
citations

279798

23
h-index

501196

28
g-index

35
all docs

35
docs citations

35
times ranked

4322
citing authors

#	ARTICLE	IF	CITATIONS
1	Endothelial cells dynamically compete for the tip cell position during angiogenic sprouting. <i>Nature Cell Biology</i> , 2010, 12, 943-953.	10.3	820
2	Acetylation-dependent regulation of endothelial Notch signalling by the SIRT1 deacetylase. <i>Nature</i> , 2011, 473, 234-238.	27.8	350
3	The role of differential VE-cadherin dynamics in cell rearrangement during angiogenesis. <i>Nature Cell Biology</i> , 2014, 16, 309-321.	10.3	328
4	Agent-based simulation of notch-mediated tip cell selection in angiogenic sprout initialisation. <i>Journal of Theoretical Biology</i> , 2008, 250, 25-36.	1.7	234
5	Tipping the Balance: Robustness of Tip Cell Selection, Migration and Fusion in Angiogenesis. <i>PLoS Computational Biology</i> , 2009, 5, e1000549.	3.2	187
6	VEGFRs and Notch: a dynamic collaboration in vascular patterning. <i>Biochemical Society Transactions</i> , 2009, 37, 1233-1236.	3.4	140
7	Glycolytic regulation of cell rearrangement in angiogenesis. <i>Nature Communications</i> , 2016, 7, 12240.	12.8	131
8	OpenABM-Covid19 – An agent-based model for non-pharmaceutical interventions against COVID-19 including contact tracing. <i>PLoS Computational Biology</i> , 2021, 17, e1009146.	3.2	118
9	Synchronization of endothelial Dll4-Notch dynamics switch blood vessels from branching to expansion. <i>ELife</i> , 2016, 5, .	6.0	115
10	VEGFR2 pY949 signalling regulates adherens junction integrity and metastatic spread. <i>Nature Communications</i> , 2016, 7, 11017.	12.8	111
11	Asymmetric division coordinates collective cell migration in angiogenesis. <i>Nature Cell Biology</i> , 2016, 18, 1292-1301.	10.3	110
12	A truncation allele in <i>vascular endothelial growth factor c</i> reveals distinct modes of signaling during lymphatic and vascular development. <i>Development (Cambridge)</i> , 2013, 140, 1497-1506.	2.5	98
13	Formin-Mediated Actin Polymerization at Endothelial Junctions Is Required for Vessel Lumen Formation and Stabilization. <i>Developmental Cell</i> , 2015, 32, 123-132.	7.0	87
14	MOSAIC: A Multiscale Model of Osteogenesis and Sprouting Angiogenesis with Lateral Inhibition of Endothelial Cells. <i>PLoS Computational Biology</i> , 2012, 8, e1002724.	3.2	76
15	The temporal basis of angiogenesis. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20150522.	4.0	74
16	NOTCH1 signaling induces pathological vascular permeability in diabetic retinopathy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4538-4547.	7.1	59
17	Defective endothelial cell migration in the absence of Cdc42 leads to capillary-venous malformations. <i>Development (Cambridge)</i> , 2018, 145, .	2.5	56
18	Time to Decide? Dynamical Analysis Predicts Partial Tip/Stalk Patterning States Arise during Angiogenesis. <i>PLoS ONE</i> , 2016, 11, e0166489.	2.5	43

#	ARTICLE	IF	CITATIONS
19	The endothelial adaptor molecule TSAd is required for VEGF-induced angiogenic sprouting through junctional c-Src activation. <i>Science Signaling</i> , 2016, 9, ra72.	3.6	35
20	PKM2 regulates endothelial cell junction dynamics and angiogenesis via ATP production. <i>Scientific Reports</i> , 2019, 9, 15022.	3.3	34
21	Mouse retinal cell behaviour in space and time using light sheet fluorescence microscopy. <i>ELife</i> , 2020, 9, .	6.0	30
22	Predicting the future: Towards symbiotic computational and experimental angiogenesis research. <i>Experimental Cell Research</i> , 2013, 319, 1240-1246.	2.6	27
23	Positive Feedback Defines the Timing, Magnitude, and Robustness of Angiogenesis. <i>Cell Reports</i> , 2019, 27, 3139-3151.e5.	6.4	27
24	Do Endothelial Cells Dream of Eclectic Shape?. <i>Developmental Cell</i> , 2014, 29, 146-158.	7.0	26
25	Active perception during angiogenesis: filopodia speed up Notch selection of tip cells <i>in silico</i> and <i>in vivo</i> . <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20190753.	4.0	22
26	Temporal modulation of collective cell behavior controls vascular network topology. <i>ELife</i> , 2016, 5, .	6.0	20
27	Blocking endothelial apoptosis revascularizes the retina in a model of ischemic retinopathy. <i>Journal of Clinical Investigation</i> , 2020, 130, 4235-4251.	8.2	15
28	Engineered patterns of Notch ligands Jag1 and Dll4 elicit differential spatial control of endothelial sprouting. <i>IScience</i> , 2022, 25, 104306.	4.1	10
29	Can Active Perception Generate Bistability? <i>Heterogeneous Collective Dynamics and Vascular Patterning</i> . , 0, , .		6
30	Endothelial Tip Cell Guidance and Mechanisms. <i>FASEB Journal</i> , 2010, 24, 9.1.	0.5	0