Victoria L Bautch

List of Publications by Year
in descending order

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citations

71102

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docs citations

99

times ranked

6427

citing authors

#	Article	IF	Citations
1	The versatility and paradox of BMP signaling in endothelial cell behaviors and blood vessel function. Cellular and Molecular Life Sciences, 2022, 79, 77.	5.4	18
2	The Beauty and Complexity of Blood Vessel Patterning. Cold Spring Harbor Perspectives in Medicine, 2022, , a041167.	6.2	2
3	Vascular development and organogenesis. , 2022, , 241-249.		0
4	Arginine methylation of R81 in Smad6 confines BMP-induced Smad1 signaling. Journal of Biological Chemistry, 2021, 296, 100496.	3.4	4
5	SMAD6 transduces endothelial cell flow responses required for blood vessel homeostasis. Angiogenesis, 2021, 24, 387-398.	7.2	22
6	Single-Cell RNA Sequencing Reveals Endothelial Cell Transcriptome Heterogeneity Under Homeostatic Laminar Flow. Arteriosclerosis, Thrombosis, and Vascular Biology, 2021, 41, 2575-2584.	2.4	19
7	Excess centrosomes disrupt vascular lumenization and endothelial cell adherens junctions. Angiogenesis, 2020, 23, 567-575.	7.2	21
8	Blood Vessel Patterning on Retinal Astrocytes Requires Endothelial Flt-1 (VEGFR-1). Journal of Developmental Biology, 2019, 7, 18.	1.7	12
9	Bone morphogenetic protein and blood vessels. Current Opinion in Hematology, 2019, 26, 154-160.	2.5	12
10	Developmental SMAD6 loss leads to blood vessel hemorrhage and disrupted endothelial cell junctions. Developmental Biology, 2018, 442, 199-209.	2.0	26
11	Ultrasound Molecular Imaging of VEGFR-2 in Clear-Cell Renal Cell Carcinoma Tracks Disease Response to Antiangiogenic and Notch-Inhibition Therapy. Theranostics, 2018, 8, 141-155.	10.0	33
12	Von Hippel-Lindau mutations disrupt vascular patterning and maturation via Notch. JCI Insight, 2018, 3, .	5.0	19
13	Alk2/ACVR1 and Alk3/BMPR1A Provide Essential Function for Bone Morphogenetic Proteinâ€“Induced Retinal Angiogenesis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 657-663.	2.4	34
14	Blood vessel anastomosis is spatially regulated by Flt1 during angiogenesis. Development (Cambridge), 2017, 144, 889-896.	2.5	46
15	Excess centrosomes induce p53â€•dependent senescence without DNA damage in endothelial cells. FASEB Journal, 2017, 31, 4295-4304.	0.5	7
16	Dynamic alterations in decoy VEGF receptor-1 stability regulate angiogenesis. Nature Communications, 2017, 8, 15699.	12.8	50
17	Endoglin moves and shapes endothelial cells. Nature Cell Biology, 2017, 19, 593-595.	10.3	14
18	Modulation of Endothelial Bone Morphogenetic Protein Receptor Type 2 Activity by Vascular Endothelial Growth Factor Receptor 3 in Pulmonary Arterial Hypertension. Circulation, 2017, 135, 2288-2298.	1.6	36

#	ARTICLE	IF	CITATIONS
19	Tortuous Microvessels Contribute to Wound Healing via Sprouting Angiogenesis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 1903-1912.	2.4	31
20	Tumor-Derived Factors and Reduced p53 Promote Endothelial Cell Centrosome Over-Duplication. PLoS ONE, 2016, 11, e0168334.	2.5	6
21	Excess centrosomes perturb dynamic endothelial cell repolarization during blood vessel formation. Molecular Biology of the Cell, 2016, 27, 1911-1920.	2.1	24
22	Flt-1 (VEGFR-1) coordinates discrete stages of blood vessel formation. Cardiovascular Research, 2016, 111, 84-93.	3.8	56
23	Notch regulates BMP responsiveness and lateral branching in vessel networks via SMAD6. Nature Communications, 2016, 7, 13247.	12.8	99
24	LGN Directs Interphase Endothelial Cell Behavior via the Microtubule Network. PLoS ONE, 2015, 10, e0138763.	2.5	11
25	Blood and Lymphatic Vessel Formation. Cold Spring Harbor Perspectives in Biology, 2015, 7, a008268.	5.5	52
26	Antiangiogenic VEGF-A in peripheral artery disease. Nature Medicine, 2014, 20, 1383-1385.	30.7	13
27	Multiple endothelial cells constitute the tip of developing blood vessels and polarize to promote lumen formation. Development (Cambridge), 2014, 141, 4121-4126.	2.5	28
28	Decoy Receptor CXCR7 Modulates Adrenomedullin-Mediated Cardiac and Lymphatic Vascular Development. Developmental Cell, 2014, 30, 528-540.	7.0	77
29	Excess centrosomes disrupt endothelial cell migration via centrosome scattering. Journal of Cell Biology, 2014, 206, 257-272.	5.2	51
30	Multiple endothelial cells constitute the tip of developing blood vessels and polarize to promote lumen formation. Journal of Cell Science, 2014, 127, e1-e1.	2.0	0
31	CASZ1 Promotes Vascular Assembly and Morphogenesis through the Direct Regulation of an EGFL7/RhoA-Mediated Pathway. Developmental Cell, 2013, 25, 132-143.	7.0	63
32	Neurovascular development and links to disease. Cellular and Molecular Life Sciences, 2013, 70, 1675-1684.	5.4	87
33	Flt-1 (Vascular Endothelial Growth Factor Receptor-1) Is Essential for the Vascular Endothelial Growth Factorâ€"Notch Feedback Loop During Angiogenesis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, 33, 1952-1959.	2.4	42
34	Building blood vessels in development and disease. Current Opinion in Hematology, 2013, 20, 1.	2.5	51
35	The RhoGEF TEM4 Regulates Endothelial Cell Migration by Suppressing Actomyosin Contractility. PLoS ONE, 2013, 8, e66260.	2.5	18
36	VEGF-Directed Blood Vessel Patterning: From Cells to Organism. Cold Spring Harbor Perspectives in Medicine, 2012, 2, a006452-a006452.	6.2	76

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37	How Blood Vessel Networks Are Made and Measured. Cells Tissues Organs, 2012, 195, 94-107.	2.3	47
38	Integration of experimental and computational approaches to sprouting angiogenesis. Current Opinion in Hematology, 2012, 19, 184-191.	2.5	30
39	The adaptor protein Shc integrates growth factor and ECM signaling during postnatal angiogenesis. Blood, 2012, 119, 1946-1955.	1.4	21
40	BMP signaling promotes lateral vessel branching. FASEB Journal, 2012, 26, lb49.	0.5	0
41	Computational Modeling of Interacting VEGF and Soluble VEGF Receptor Concentration Gradients. Frontiers in Physiology, 2011, 2, 62.	2.8	46
42	Regulation of blood vessel sprouting. Seminars in Cell and Developmental Biology, 2011, 22, 1005-1011.	5.0	82
43	Ups and Downs of Guided Vessel Sprouting: The Role of Polarity. Physiology, 2011, 26, 326-333.	3.1	32
44	Distinct signalling pathways regulate sprouting angiogenesis from the dorsal aorta and the axial vein. Nature Cell Biology, 2011, 13, 686-692.	10.3	175
45	Stem cells and the vasculature. Nature Medicine, 2011, 17, 1437-1443.	30.7	150
46	The Ras Activator RasGRP3 Mediates Diabetes-Induced Embryonic Defects and Affects Endothelial Cell Migration. Circulation Research, 2011, 108, 1199-1208.	4.5	19
47	Variations in Tip Cell Proximity and sFlt1 Gradients Alter VEGF Receptor Activation in a Computational Model. FASEB Journal, 2011, 25, 1091.11.	0.5	0
48	Angiogenic factor signaling regulates centrosome duplication in endothelial cells of developing blood vessels. Blood, 2010, 116, 3108-3117.	1.4	58
49	Tumour stem cells switch sides. Nature, 2010, 468, 770-771.	27.8	38
50	Vascular Development. Current Topics in Developmental Biology, 2010, 90, 43-72.	2.2	55
51	Neurovascular development uses VEGF-A signaling to regulate blood vessel ingression into the neural tube. Development (Cambridge), 2009, 136, 833-841.	2.5	88
52	Neurovascular development. Cell Adhesion and Migration, 2009, 3, 199-204.	2.7	78
53	Local Guidance of Emerging Vessel Sprouts Requires Soluble Flt-1. Developmental Cell, 2009, 17, 377-386.	7.0	213
54	Endothelial Cells Form a Phalanx to Block Tumor Metastasis. Cell, 2009, 136, 810-812.	28.9	29

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55	Endocardial cells are a distinct endothelial lineage derived from Flk1+ multipotent cardiovascular progenitors. Developmental Biology, 2009, 333, 78-89.	2.0	106
56	Neurovascular development utilizes VEGFâ€•A signaling to regulate blood vessel ingression into the neural tube. FASEB Journal, 2009, 23, 299.1.	0.5	0
57	csf1 is required for early embryonic macrophage development: characterization of the csf1op/csf1opmutation in ES cell-derived macrophages. British Journal of Haematology, 2008, 141, 739-742.	2.5	6
58	The VEGF receptor Flt-1 spatially modulates Flk-1 signaling and blood vessel branching. Journal of Cell Biology, 2008, 181, 847-858.	5.2	161
59	A sonic hedgehog signaling domain in the arterial adventitia supports resident Sca1 ⁺ smooth muscle progenitor cells. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 9349-9354.	7.1	262
60	Chapter 6 In Vitro Differentiation of Mouse Embryonic Stem Cells Into Primitive Blood Vessels. Methods in Enzymology, 2008, 443, 103-117.	1.0	9
61	Wnt2 Coordinates the Commitment of Mesoderm to Hematopoietic, Endothelial, and Cardiac Lineages in Embryoid Bodies. Journal of Biological Chemistry, 2007, 282, 782-791.	3.4	68
62	Orientation of endothelial cell division is regulated by VEGF signaling during blood vessel formation. Blood, 2007, 109, 1345-1352.	1.4	125
63	Maintenance and In Vitro Differentiation of Mouse Embryonic Stem Cells to Form Blood Vessels. Current Protocols in Cell Biology, 2007, 34, Unit 23.3.	2.3	3
64	The Role of Fltâ€•1 (VEGFRâ€•1) in Vascular Morphogenesis. FASEB Journal, 2007, 21, A82.	0.5	0
65	Flk1 expression: promiscuity revealed. Blood, 2006, 107, 3-4.	1.4	10
66	Gene Expression Profile Signatures Indicate a Role for Wnt Signaling in Endothelial Commitment From Embryonic Stem Cells. Circulation Research, 2006, 98, 1331-1339.	4.5	71
67	Signaling pathways that regulate blood vessel morphogenesis. FASEB Journal, 2006, 20, A22.	0.5	0
68	A Vascular Gene Trap Screen Defines RasGRP3 as an Angiogenesis-Regulated Gene Required for the Endothelial Response to Phorbol Esters. Molecular and Cellular Biology, 2004, 24, 10515-10528.	2.3	49
69	The neural tube patterns vessels developmentally using the VEGF signaling pathway. Development (Cambridge), 2004, 131, 1503-1513.	2.5	138
70	Assembly and Patterning of Vertebrate Blood Vessels. Trends in Cardiovascular Medicine, 2004, 14, 138-143.	4.9	11
71	Blood Vessel Patterning at the Embryonic Midline. Current Topics in Developmental Biology, 2004, 62, 55-85.	2.2	43
72	The Vascular Endothelial Growth Factor (VEGF) Receptor Flt-1 (VEGFR-1) Modulates Flk-1 (VEGFR-2) Signaling During Blood Vessel Formation. American Journal of Pathology, 2004, 164, 1531-1535.	3.8	177

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73	The VEGF receptor flt-1 (VEGFR-1) is a positive modulator of vascular sprout formation and branching morphogenesis. Blood, 2004, 103, 4527-4535.	1.4	190
74	The chemokine CX3CL1 regulates NK cell activity in vivo. Cellular Immunology, 2003, 225, 122-130.	3.0	37
75	Stem cell-derived endothelial cells/progenitors migrate and pattern in the embryo using the VEGF signaling pathway. Developmental Biology, 2003, 257, 205-219.	2.0	35
76	BMPER, a Novel Endothelial Cell Precursor-Derived Protein, Antagonizes Bone Morphogenetic Protein Signaling and Endothelial Cell Differentiation. Molecular and Cellular Biology, 2003, 23, 5664-5679.	2.3	202
77	HoxB5 Is an Upstream Transcriptional Switch for Differentiation of the Vascular Endothelium from Precursor Cells. Molecular and Cellular Biology, 2003, 23, 5680-5691.	2.3	73
78	In Vitro Differentiation of Mouse ES Cells: Hematopoietic and Vascular Development. Methods in Enzymology, 2003, 365, 83-98.	1.0	46
79	Embryonic Stem Cell Differentiation and the Vascular Lineage. , 2002, 185, 117-125.		15
80	Vascular endothelial growth factor receptor Flt-1 negatively regulates developmental blood vessel formation by modulating endothelial cell division. Blood, 2002, 99, 2397-2407.	1.4	165
81	Assembly of Trunk and Limb Blood Vessels Involves Extensive Migration and Vasculogenesis of Somite-Derived Angioblasts. Developmental Biology, 2001, 234, 352-364.	2.0	110
82	Characterization of the vasculogenic block in the absence of vascular endothelial growth factor-A. Blood, 2000, 95, 1979-1987.	1.4	51
83	A Role for Fractalkine and Its Receptor (CX3CR1) in Cardiac Allograft Rejection. Journal of Immunology, 2000, 165, 6067-6072.	0.8	158
84	Characterization of the vasculogenic block in the absence of vascular endothelial growth factor-A. Blood, 2000, 95, 1979-87.	1.4	21
85	Developmental Platelet Endothelial Cell Adhesion Molecule Expression Suggests Multiple Roles for a Vascular Adhesion Molecule. American Journal of Pathology, 1999, 154, 1137-1147.	3.8	45
86	Murine endothelial cells support fetal liver erythropoiesis and myelopoiesis via distinct interactions. British Journal of Haematology, 1997, 98, 798-808.	2.5	27
87	Yolk sac-derived murine macrophage cell line has a counterpart during ES cell differentiation. Developmental Dynamics, 1997, 210, 487-497.	1.8	10
88	Blood island formation in attached cultures of murine embryonic stem cells. Developmental Dynamics, 1996, 205, 1-12.	1.8	76
89	Blood island formation in attached cultures of murine embryonic stem cells. Developmental Dynamics, 1996, 205, 1-12.	1.8	1
90	Expression and inducibility of vascular adhesion receptors in development. FASEB Journal, 1995, 9, 956-962.	0.5	23

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91	Endocrine and metabolic characteristics of polyoma large T transgenic mice that develop ACTH-producing pituitary tumors. Journal of Neurosurgery, 1995, 82, 879-885.	1.6	6
92	Structure and Evolution of the HumanIKBAGene. Genomics, 1995, 29, 490-495.	2.9	41
93	Isolation and characterization of an established endothelial cell line from transgenic mouse hemangiomas. Experimental Cell Research, 1991, 196, 302-313.	2.6	65
94	Endothelial cell tumors develop in transgenic mice carrying polyoma virus middle T oncogene. Cell, 1987, 51, 529-537.	28.9	150
95	Organization and expression of Drosophila tropomyosin genes. Journal of Molecular Biology, 1982, 162, 231-250.	4.2	46