

Victoria L Bautch

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8203302/publications.pdf>

Version: 2024-02-01

95
papers

5,157
citations

71102

41
h-index

91884

69
g-index

99
all docs

99
docs citations

99
times ranked

6427
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Local Guidance of Emerging Vessel Sprouts Requires Soluble Flt-1. Developmental Cell, 2009, 17, 377-386.	7.0	213
3	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
4	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
5	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
6	Distinct signalling pathways regulate sprouting angiogenesis from the dorsal aorta and the axial vein. Nature Cell Biology, 2011, 13, 686-692.	10.3	175
7	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
8	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
9	A Role for Fractalkine and Its Receptor (CX3CR1) in Cardiac Allograft Rejection. Journal of Immunology, 2000, 165, 6067-6072.	0.8	158
10	Endothelial cell tumors develop in transgenic mice carrying polyoma virus middle T oncogene. Cell, 1987, 51, 529-537.	28.9	150
11	Stem cells and the vasculature. Nature Medicine, 2011, 17, 1437-1443.	30.7	150
12	The neural tube patterns vessels developmentally using the VEGF signaling pathway. Development (Cambridge), 2004, 131, 1503-1513.	2.5	138
13	Orientation of endothelial cell division is regulated by VEGF signaling during blood vessel formation. Blood, 2007, 109, 1345-1352.	1.4	125
14	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
15	Endocardial cells are a distinct endothelial lineage derived from Flk1+ multipotent cardiovascular progenitors. Developmental Biology, 2009, 333, 78-89.	2.0	106
16	Notch regulates BMP responsiveness and lateral branching in vessel networks via SMAD6. Nature Communications, 2016, 7, 13247.	12.8	99
17	Neurovascular development uses VEGF-A signaling to regulate blood vessel ingression into the neural tube. Development (Cambridge), 2009, 136, 833-841.	2.5	88
18	Neurovascular development and links to disease. Cellular and Molecular Life Sciences, 2013, 70, 1675-1684.	5.4	87

#	ARTICLE	IF	CITATIONS
19	Regulation of blood vessel sprouting. <i>Seminars in Cell and Developmental Biology</i> , 2011, 22, 1005-1011.	5.0	82
20	Neurovascular development. <i>Cell Adhesion and Migration</i> , 2009, 3, 199-204.	2.7	78
21	Decoy Receptor CXCR7 Modulates Adrenomedullin-Mediated Cardiac and Lymphatic Vascular Development. <i>Developmental Cell</i> , 2014, 30, 528-540.	7.0	77
22	Blood island formation in attached cultures of murine embryonic stem cells. <i>Developmental Dynamics</i> , 1996, 205, 1-12.	1.8	76
23	VEGF-Directed Blood Vessel Patterning: From Cells to Organism. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2012, 2, a006452-a006452.	6.2	76
24	HoxB5 Is an Upstream Transcriptional Switch for Differentiation of the Vascular Endothelium from Precursor Cells. <i>Molecular and Cellular Biology</i> , 2003, 23, 5680-5691.	2.3	73
25	Gene Expression Profile Signatures Indicate a Role for Wnt Signaling in Endothelial Commitment From Embryonic Stem Cells. <i>Circulation Research</i> , 2006, 98, 1331-1339.	4.5	71
26	Wnt2 Coordinates the Commitment of Mesoderm to Hematopoietic, Endothelial, and Cardiac Lineages in Embryoid Bodies. <i>Journal of Biological Chemistry</i> , 2007, 282, 782-791.	3.4	68
27	Isolation and characterization of an established endothelial cell line from transgenic mouse hemangiomas. <i>Experimental Cell Research</i> , 1991, 196, 302-313.	2.6	65
28	CASZ1 Promotes Vascular Assembly and Morphogenesis through the Direct Regulation of an EGFL7/RhoA-Mediated Pathway. <i>Developmental Cell</i> , 2013, 25, 132-143.	7.0	63
29	Angiogenic factor signaling regulates centrosome duplication in endothelial cells of developing blood vessels. <i>Blood</i> , 2010, 116, 3108-3117.	1.4	58
30	Flt-1 (VEGFR-1) coordinates discrete stages of blood vessel formation. <i>Cardiovascular Research</i> , 2016, 111, 84-93.	3.8	56
31	Vascular Development. <i>Current Topics in Developmental Biology</i> , 2010, 90, 43-72.	2.2	55
32	Blood and Lymphatic Vessel Formation. <i>Cold Spring Harbor Perspectives in Biology</i> , 2015, 7, a008268.	5.5	52
33	Characterization of the vasculogenic block in the absence of vascular endothelial growth factor-A. <i>Blood</i> , 2000, 95, 1979-1987.	1.4	51
34	Building blood vessels in development and disease. <i>Current Opinion in Hematology</i> , 2013, 20, 1.	2.5	51
35	Excess centrosomes disrupt endothelial cell migration via centrosome scattering. <i>Journal of Cell Biology</i> , 2014, 206, 257-272.	5.2	51
36	Dynamic alterations in decoy VEGF receptor-1 stability regulate angiogenesis. <i>Nature Communications</i> , 2017, 8, 15699.	12.8	50

#	ARTICLE	IF	CITATIONS
37	A Vascular Gene Trap Screen Defines RasGRP3 as an Angiogenesis-Regulated Gene Required for the Endothelial Response to Phorbol Esters. <i>Molecular and Cellular Biology</i> , 2004, 24, 10515-10528.	2.3	49
38	How Blood Vessel Networks Are Made and Measured. <i>Cells Tissues Organs</i> , 2012, 195, 94-107.	2.3	47
39	Organization and expression of <i>Drosophila</i> tropomyosin genes. <i>Journal of Molecular Biology</i> , 1982, 162, 231-250.	4.2	46
40	In Vitro Differentiation of Mouse ES Cells: Hematopoietic and Vascular Development. <i>Methods in Enzymology</i> , 2003, 365, 83-98.	1.0	46
41	Computational Modeling of Interacting VEGF and Soluble VEGF Receptor Concentration Gradients. <i>Frontiers in Physiology</i> , 2011, 2, 62.	2.8	46
42	Blood vessel anastomosis is spatially regulated by Flt1 during angiogenesis. <i>Development (Cambridge)</i> , 2017, 144, 889-896.	2.5	46
43	Developmental Platelet Endothelial Cell Adhesion Molecule Expression Suggests Multiple Roles for a Vascular Adhesion Molecule. <i>American Journal of Pathology</i> , 1999, 154, 1137-1147.	3.8	45
44	Blood Vessel Patterning at the Embryonic Midline. <i>Current Topics in Developmental Biology</i> , 2004, 62, 55-85.	2.2	43
45	Flt-1 (Vascular Endothelial Growth Factor Receptor-1) Is Essential for the Vascular Endothelial Growth Factor-Notch Feedback Loop During Angiogenesis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013, 33, 1952-1959.	2.4	42
46	Structure and Evolution of the Human <i>IKBA</i> Gene. <i>Genomics</i> , 1995, 29, 490-495.	2.9	41
47	Tumour stem cells switch sides. <i>Nature</i> , 2010, 468, 770-771.	27.8	38
48	The chemokine CX3CL1 regulates NK cell activity in vivo. <i>Cellular Immunology</i> , 2003, 225, 122-130.	3.0	37
49	Modulation of Endothelial Bone Morphogenetic Protein Receptor Type 2 Activity by Vascular Endothelial Growth Factor Receptor 3 in Pulmonary Arterial Hypertension. <i>Circulation</i> , 2017, 135, 2288-2298.	1.6	36
50	Stem cell-derived endothelial cells/progenitors migrate and pattern in the embryo using the VEGF signaling pathway. <i>Developmental Biology</i> , 2003, 257, 205-219.	2.0	35
51	<i>Alk2/ACVR1</i> and <i>Alk3/BMPR1A</i> Provide Essential Function for Bone Morphogenetic Protein-Induced Retinal Angiogenesis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 657-663.	2.4	34
52	Ultrasound Molecular Imaging of VEGFR-2 in Clear-Cell Renal Cell Carcinoma Tracks Disease Response to Antiangiogenic and Notch-Inhibition Therapy. <i>Theranostics</i> , 2018, 8, 141-155.	10.0	33
53	Ups and Downs of Guided Vessel Sprouting: The Role of Polarity. <i>Physiology</i> , 2011, 26, 326-333.	3.1	32
54	Tortuous Microvessels Contribute to Wound Healing via Sprouting Angiogenesis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 1903-1912.	2.4	31

#	ARTICLE	IF	CITATIONS
55	Integration of experimental and computational approaches to sprouting angiogenesis. <i>Current Opinion in Hematology</i> , 2012, 19, 184-191.	2.5	30
56	Endothelial Cells Form a Phalanx to Block Tumor Metastasis. <i>Cell</i> , 2009, 136, 810-812.	28.9	29
57	Multiple endothelial cells constitute the tip of developing blood vessels and polarize to promote lumen formation. <i>Development (Cambridge)</i> , 2014, 141, 4121-4126.	2.5	28
58	Murine endothelial cells support fetal liver erythropoiesis and myelopoiesis via distinct interactions. <i>British Journal of Haematology</i> , 1997, 98, 798-808.	2.5	27
59	Developmental SMAD6 loss leads to blood vessel hemorrhage and disrupted endothelial cell junctions. <i>Developmental Biology</i> , 2018, 442, 199-209.	2.0	26
60	Excess centrosomes perturb dynamic endothelial cell repolarization during blood vessel formation. <i>Molecular Biology of the Cell</i> , 2016, 27, 1911-1920.	2.1	24
61	Expression and inducibility of vascular adhesion receptors in development. <i>FASEB Journal</i> , 1995, 9, 956-962.	0.5	23
62	SMAD6 transduces endothelial cell flow responses required for blood vessel homeostasis. <i>Angiogenesis</i> , 2021, 24, 387-398.	7.2	22
63	The adaptor protein Shc integrates growth factor and ECM signaling during postnatal angiogenesis. <i>Blood</i> , 2012, 119, 1946-1955.	1.4	21
64	Excess centrosomes disrupt vascular lumenization and endothelial cell adherens junctions. <i>Angiogenesis</i> , 2020, 23, 567-575.	7.2	21
65	Characterization of the vasculogenic block in the absence of vascular endothelial growth factor-A. <i>Blood</i> , 2000, 95, 1979-87.	1.4	21
66	The Ras Activator RasGRP3 Mediates Diabetes-Induced Embryonic Defects and Affects Endothelial Cell Migration. <i>Circulation Research</i> , 2011, 108, 1199-1208.	4.5	19
67	Single-Cell RNA Sequencing Reveals Endothelial Cell Transcriptome Heterogeneity Under Homeostatic Laminar Flow. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021, 41, 2575-2584.	2.4	19
68	Von Hippel-Lindau mutations disrupt vascular patterning and maturation via Notch. <i>JCI Insight</i> , 2018, 3, .	5.0	19
69	The RhoGEF TEM4 Regulates Endothelial Cell Migration by Suppressing Actomyosin Contractility. <i>PLoS ONE</i> , 2013, 8, e66260.	2.5	18
70	The versatility and paradox of BMP signaling in endothelial cell behaviors and blood vessel function. <i>Cellular and Molecular Life Sciences</i> , 2022, 79, 77.	5.4	18
71	Embryonic Stem Cell Differentiation and the Vascular Lineage. , 2002, 185, 117-125.		15
72	Endoglin moves and shapes endothelial cells. <i>Nature Cell Biology</i> , 2017, 19, 593-595.	10.3	14

#	ARTICLE	IF	CITATIONS
73	Antiangiogenic VEGF-A in peripheral artery disease. <i>Nature Medicine</i> , 2014, 20, 1383-1385.	30.7	13
74	Blood Vessel Patterning on Retinal Astrocytes Requires Endothelial Flt-1 (VEGFR-1). <i>Journal of Developmental Biology</i> , 2019, 7, 18.	1.7	12
75	Bone morphogenetic protein and blood vessels. <i>Current Opinion in Hematology</i> , 2019, 26, 154-160.	2.5	12
76	Assembly and Patterning of Vertebrate Blood Vessels. <i>Trends in Cardiovascular Medicine</i> , 2004, 14, 138-143.	4.9	11
77	LGN Directs Interphase Endothelial Cell Behavior via the Microtubule Network. <i>PLoS ONE</i> , 2015, 10, e0138763.	2.5	11
78	Yolk sac-derived murine macrophage cell line has a counterpart during ES cell differentiation. <i>Developmental Dynamics</i> , 1997, 210, 487-497.	1.8	10
79	Flk1 expression: promiscuity revealed. <i>Blood</i> , 2006, 107, 3-4.	1.4	10
80	Chapter 6 In Vitro Differentiation of Mouse Embryonic Stem Cells Into Primitive Blood Vessels. <i>Methods in Enzymology</i> , 2008, 443, 103-117.	1.0	9
81	Excess centrosomes induce p53-dependent senescence without DNA damage in endothelial cells. <i>FASEB Journal</i> , 2017, 31, 4295-4304.	0.5	7
82	Endocrine and metabolic characteristics of polyoma large T transgenic mice that develop ACTH-producing pituitary tumors. <i>Journal of Neurosurgery</i> , 1995, 82, 879-885.	1.6	6
83	csf1 is required for early embryonic macrophage development: characterization of the csf1op/csf1op mutation in ES cell-derived macrophages. <i>British Journal of Haematology</i> , 2008, 141, 739-742.	2.5	6
84	Tumor-Derived Factors and Reduced p53 Promote Endothelial Cell Centrosome Over-Duplication. <i>PLoS ONE</i> , 2016, 11, e0168334.	2.5	6
85	Arginine methylation of R81 in Smad6 confines BMP-induced Smad1 signaling. <i>Journal of Biological Chemistry</i> , 2021, 296, 100496.	3.4	4
86	Maintenance and In Vitro Differentiation of Mouse Embryonic Stem Cells to Form Blood Vessels. <i>Current Protocols in Cell Biology</i> , 2007, 34, Unit 23.3.	2.3	3
87	The Beauty and Complexity of Blood Vessel Patterning. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2022, , a041167.	6.2	2
88	Blood island formation in attached cultures of murine embryonic stem cells. <i>Developmental Dynamics</i> , 1996, 205, 1-12.	1.8	1
89	Signaling pathways that regulate blood vessel morphogenesis. <i>FASEB Journal</i> , 2006, 20, A22.	0.5	0
90	The Role of Flt-1 (VEGFR-1) in Vascular Morphogenesis. <i>FASEB Journal</i> , 2007, 21, A82.	0.5	0

#	ARTICLE	IF	CITATIONS
91	Neurovascular development utilizes VEGF α signaling to regulate blood vessel ingression into the neural tube. FASEB Journal, 2009, 23, 299.1.	0.5	0
92	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
93	BMP signaling promotes lateral vessel branching. FASEB Journal, 2012, 26, lb49.	0.5	0
94	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
95	Vascular development and organogenesis. , 2022, , 241-249.		0