

# John C Chappell

## List of Publications by Year in descending order

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Version: 2024-02-01

34  
papers

1,459  
citations

361045

20  
h-index

476904

29  
g-index

35  
all docs

35  
docs citations

35  
times ranked

1796  
citing authors

#	ARTICLE	IF	CITATIONS
1	Local Guidance of Emerging Vessel Sprouts Requires Soluble Flt-1. <i>Developmental Cell</i> , 2009, 17, 377-386.	3.1	213
2	The VEGF receptor Flt-1 spatially modulates Flk-1 signaling and blood vessel branching. <i>Journal of Cell Biology</i> , 2008, 181, 847-858.	2.3	161
3	Influence of injection site, microvascular pressure and ultrasound variables on microbubble-mediated delivery of microspheres to muscle. <i>Journal of the American College of Cardiology</i> , 2002, 39, 726-731.	1.2	118
4	Targeted Delivery of Nanoparticles Bearing Fibroblast Growth Factor-2 by Ultrasonic Microbubble Destruction for Therapeutic Arteriogenesis. <i>Small</i> , 2008, 4, 1769-1777.	5.2	83
5	Regulation of blood vessel sprouting. <i>Seminars in Cell and Developmental Biology</i> , 2011, 22, 1005-1011.	2.3	82
6	Hypoxia, angiogenesis, and metabolism in the hereditary kidney cancers. <i>Journal of Clinical Investigation</i> , 2019, 129, 442-451.	3.9	76
7	Flt-1 (VEGFR-1) coordinates discrete stages of blood vessel formation. <i>Cardiovascular Research</i> , 2016, 111, 84-93.	1.8	56
8	Vascular Development. <i>Current Topics in Developmental Biology</i> , 2010, 90, 43-72.	1.0	55
9	Excess vascular endothelial growth factor-A disrupts pericyte recruitment during blood vessel formation. <i>Angiogenesis</i> , 2019, 22, 167-183.	3.7	53
10	How Blood Vessel Networks Are Made and Measured. <i>Cells Tissues Organs</i> , 2012, 195, 94-107.	1.3	47
11	Computational Modeling of Interacting VEGF and Soluble VEGF Receptor Concentration Gradients. <i>Frontiers in Physiology</i> , 2011, 2, 62.	1.3	46
12	Blood vessel anastomosis is spatially regulated by Flt1 during angiogenesis. <i>Development (Cambridge)</i> , 2017, 144, 889-896.	1.2	46
13	Specific labeling of synaptic schwann cells reveals unique cellular and molecular features. <i>ELife</i> , 2020, 9, .	2.8	45
14	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.	1.1	42
15	The pericyte microenvironment during vascular development. <i>Microcirculation</i> , 2019, 26, e12554.	1.0	42
16	Ultrasound-microbubble-induced neovascularization in mouse skeletal muscle. <i>Ultrasound in Medicine and Biology</i> , 2005, 31, 1411-1422.	0.7	36
17	Agent-based computational model of retinal angiogenesis simulates microvascular network morphology as a function of pericyte coverage. <i>Microcirculation</i> , 2017, 24, e12393.	1.0	34
18	Microvascular bioengineering: a focus on pericytes. <i>Journal of Biological Engineering</i> , 2019, 13, 26.	2.0	31

#	ARTICLE	IF	CITATIONS
19	Targeted Therapeutic Applications of Acoustically Active Microspheres in the Microcirculation. Microcirculation, 2006, 13, 57-70.	1.0	30
20	Ultrasonic Microbubble Destruction Stimulates Therapeutic Arteriogenesis Via the CD18-Dependent Recruitment of Bone Marrowâ€Derived Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2008, 28, 1117-1122.	1.1	29
21	The Ras Activator RasGRP3 Mediates Diabetes-Induced Embryonic Defects and Affects Endothelial Cell Migration. Circulation Research, 2011, 108, 1199-1208.	2.0	19
22	Pericyte migration and proliferation are tightly synchronized to endothelial cell sprouting dynamics. Integrative Biology (United Kingdom), 2021, 13, 31-43.	0.6	19
23	Von Hippel-Lindau mutations disrupt vascular patterning and maturation via Notch. JCI Insight, 2018, 3, .	2.3	19
24	Pericyte Progenitor Coupling to the Emerging Endothelium During Vasculogenesis via Connexin 43. Arteriosclerosis, Thrombosis, and Vascular Biology, 2022, 42, ATVBAHA121317324.	1.1	16
25	Applications of Ultrasound to Stimulate Therapeutic Revascularization. International Journal of Molecular Sciences, 2019, 20, 3081.	1.8	15
26	Pericytes in Vascular Development. Current Tissue Microenvironment Reports, 2020, 1, 143-154.	1.3	15
27	Establishment and characterization of an embryonic pericyte cell line. Microcirculation, 2018, 25, e12461.	1.0	14
28	Blood Vessel Patterning on Retinal Astrocytes Requires Endothelial Flt-1 (VEGFR-1). Journal of Developmental Biology, 2019, 7, 18.	0.9	12
29	The cerebral microvasculature: Basic and clinical perspectives on stroke and glioma. Microcirculation, 2021, 28, e12671.	1.0	5
30	Bioengineering Angiogenesis: Novel Approaches to Stimulating Microvessel Growth and Remodeling. , 2006, , 125-157.		0
31	The VEGF receptor Flt-1 spatially modulates Flk-1 signaling and blood vessel branching. Journal of Experimental Medicine, 2008, 205, i16-i16.	4.2	0
32	Variations in Tip Cell Proximity and sFlt1 Gradients Alter VEGF Receptor Activation in a Computational Model. FASEB Journal, 2011, 25, 1091.11.	0.2	0
33	Agentâ€Based Model of Pericyte Response to Plateletâ€Derived Growth Factorâ€BB from Sprouting Endothelial Cells in the Developing Mouse Retina. FASEB Journal, 2018, 32, 708.2.	0.2	0
34	Agent Based Model of Endothelial Cell and Pericyte Interactions During Angiogenesis in the Germinal Matrix. FASEB Journal, 2018, 32, 573.1.	0.2	0