

Walter L Murfee

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

75 papers	1,239 citations	19 h-index	33 g-index
84 ext. papers	1,510 ext. citations	3.3 avg, IF	4.61 L-index

#	Paper	IF	Citations
75	Macrophages: An Inflammatory Link Between Angiogenesis and Lymphangiogenesis. <i>Microcirculation</i> , 2016 , 23, 95-121	2.9	163
74	Lymphatic Vessel Network Structure and Physiology. <i>Comprehensive Physiology</i> , 2018 , 9, 207-299	7.7	108
73	Differential arterial/venous expression of NG2 proteoglycan in perivascular cells along microvessels: identifying a venule-specific phenotype. <i>Microcirculation</i> , 2005 , 12, 151-60	2.9	104
72	Targeting pericytes for angiogenic therapies. <i>Microcirculation</i> , 2014 , 21, 345-57	2.9	69
71	Perivascular cells along venules upregulate NG2 expression during microvascular remodeling. <i>Microcirculation</i> , 2006 , 13, 261-73	2.9	60
70	Enhanced smooth muscle cell coverage of microvessels exposed to increased hemodynamic stresses in vivo. <i>Circulation Research</i> , 2003 , 92, 929-36	15.7	57
69	Printing cancer cells into intact microvascular networks: a model for investigating cancer cell dynamics during angiogenesis. <i>Integrative Biology (United Kingdom)</i> , 2015 , 7, 1068-78	3.7	49
68	An angiogenesis model for investigating multicellular interactions across intact microvascular networks. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013 , 304, H235-45	5.2	41
67	A novel high-throughput assay for respiration in isolated brain microvessels reveals impaired mitochondrial function in the aged mice. <i>GeroScience</i> , 2018 , 40, 365-375	8.9	35
66	VEGF-C induces lymphangiogenesis and angiogenesis in the rat mesentery culture model. <i>Microcirculation</i> , 2014 , 21, 532-40	2.9	34
65	Relationships between lymphangiogenesis and angiogenesis during inflammation in rat mesentery microvascular networks. <i>Lymphatic Research and Biology</i> , 2012 , 10, 198-207	2.3	34
64	Discontinuous expression of endothelial cell adhesion molecules along initial lymphatic vessels in mesentery: the primary valve structure. <i>Lymphatic Research and Biology</i> , 2007 , 5, 81-9	2.3	34
63	Identification of class III β -tubulin as a marker of angiogenic perivascular cells. <i>Microvascular Research</i> , 2012 , 83, 257-62	3.7	31
62	EphB4 expression along adult rat microvascular networks: EphB4 is more than a venous specific marker. <i>Microcirculation</i> , 2007 , 14, 253-67	2.9	27
61	Laser Direct-Write Onto Live Tissues: A Novel Model for Studying Cancer Cell Migration. <i>Journal of Cellular Physiology</i> , 2016 , 231, 2333-8	7	26
60	Computational network model prediction of hemodynamic alterations due to arteriolar remodeling in interval sprint trained skeletal muscle. <i>Microcirculation</i> , 2007 , 14, 181-92	2.9	22
59	Lymphatic/Blood endothelial cell connections at the capillary level in adult rat mesentery. <i>Anatomical Record</i> , 2010 , 293, 1629-38	2.1	21

58	Passive recruitment of circulating leukocytes into capillary sprouts from existing capillaries in a microfluidic system. <i>Lab on A Chip</i> , 2011 , 11, 1924-32	7.2	20
57	Chapter 12. Structure of microvascular networks in genetic hypertension. <i>Methods in Enzymology</i> , 2008 , 444, 271-84	1.7	20
56	An ex vivo model for anti-angiogenic drug testing on intact microvascular networks. <i>PLoS ONE</i> , 2015 , 10, e0119227	3.7	19
55	Matrix metalloproteinase activity causes VEGFR-2 cleavage and microvascular rarefaction in rat mesentery. <i>Microcirculation</i> , 2011 , 18, 228-37	2.9	18
54	The Distribution of Fluid Shear Stresses in Capillary Sprouts. <i>Cardiovascular Engineering and Technology</i> , 2011 , 2, 124-136	2.2	18
53	Pericyte Bridges in Homeostasis and Hyperglycemia. <i>Diabetes</i> , 2020 , 69, 1503-1517	0.9	14
52	Angiogenesis in mesenteric microvascular networks from spontaneously hypertensive versus normotensive rats. <i>Microcirculation</i> , 2011 , 18, 574-82	2.9	14
51	Endothelial Cell Phenotypes are Maintained During Angiogenesis in Cultured Microvascular Networks. <i>Scientific Reports</i> , 2018 , 8, 5887	4.9	13
50	Understanding angiogenesis during aging: opportunities for discoveries and new models. <i>Journal of Applied Physiology</i> , 2018 , 125, 1843-1850	3.7	13
49	Estimation of the Pressure Drop Required for Lymph Flow through Initial Lymphatic Networks. <i>Lymphatic Research and Biology</i> , 2016 , 14, 62-9	2.3	12
48	Cell proliferation along vascular islands during microvascular network growth. <i>BMC Physiology</i> , 2012 , 12, 7	0	12
47	Evaluation of Arteriolar Smooth Muscle Cell Function in an Ex Vivo Microvascular Network Model. <i>Scientific Reports</i> , 2017 , 7, 2195	4.9	10
46	Aging is associated with impaired angiogenesis, but normal microvascular network structure, in the rat mesentery. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017 , 312, H275-H284	5.2	10
45	An Ex Vivo Method for Time-Lapse Imaging of Cultured Rat Mesenteric Microvascular Networks. <i>Journal of Visualized Experiments</i> , 2017 ,	1.6	10
44	Applications of computational models to better understand microvascular remodelling: a focus on biomechanical integration across scales. <i>Interface Focus</i> , 2015 , 5, 20140077	3.9	10
43	Vascular islands during microvascular regression and regrowth in adult networks. <i>Frontiers in Physiology</i> , 2013 , 4, 108	4.6	10
42	Spatiotemporal distribution of neurovascular alignment in remodeling adult rat mesentery microvascular networks. <i>Journal of Vascular Research</i> , 2012 , 49, 299-308	1.9	10
41	The effect of microvascular pattern alterations on network resistance in spontaneously hypertensive rats. <i>Medical and Biological Engineering and Computing</i> , 2012 , 50, 585-93	3.1	9

40	Rat mesentery exteriorization: a model for investigating the cellular dynamics involved in angiogenesis. <i>Journal of Visualized Experiments</i> , 2012 , e3954	1.6	9
39	Bioreactor System to Perfuse Mesentery Microvascular Networks and Study Flow Effects During Angiogenesis. <i>Tissue Engineering - Part C: Methods</i> , 2019 , 25, 447-458	2.9	8
38	Lymphatic-to-blood vessel transition in adult microvascular networks: A discovery made possible by a top-down approach to biomimetic model development. <i>Microcirculation</i> , 2020 , 27, e12595	2.9	7
37	A novel tissue culture model for evaluating the effect of aging on stem cell fate in adult microvascular networks. <i>GeroScience</i> , 2020 , 42, 515-526	8.9	6
36	Cell proliferation in mesenteric microvascular network remodeling in response to elevated hemodynamic stress. <i>Annals of Biomedical Engineering</i> , 2004 , 32, 1662-6	4.7	6
35	Induction of microvascular network growth in the mouse mesentery. <i>Microcirculation</i> , 2018 , 25, e12502	2.9	6
34	An Ex Vivo Tissue Culture Model for Anti-angiogenic Drug Testing. <i>Methods in Molecular Biology</i> , 2016 , 1464, 85-95	1.4	5
33	A clinical perspective on adipose-derived cell therapy for enhancing microvascular health and function: Implications and applications for reconstructive surgery. <i>Microcirculation</i> , 2021 , 28, e12672	2.9	5
32	A Novel ex vivo Mouse Mesometrium Culture Model for Investigating Angiogenesis in Microvascular Networks. <i>Journal of Vascular Research</i> , 2018 , 55, 125-135	1.9	5
31	Modelling microvascular pathology. <i>Nature Biomedical Engineering</i> , 2018 , 2, 349-350	1.9	4
30	Pericyte migration and proliferation are tightly synchronized to endothelial cell sprouting dynamics. <i>Integrative Biology (United Kingdom)</i> , 2021 , 13, 31-43	3.7	3
29	State of the field: cellular and exosomal therapeutic approaches in vascular regeneration.. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2022 , 322, H647-H680	5.2	3
28	Lysophosphatidic acid does not cause blood/lymphatic vessel plasticity in the rat mesentery culture model. <i>Physiological Reports</i> , 2016 , 4, e12857	2.6	2
27	Linking lymphatic function to disease. <i>Journal of Physiology</i> , 2020 , 598, 3065-3066	3.9	2
26	Microvascular dysfunction and kidney disease: Challenges and opportunities?. <i>Microcirculation</i> , 2021 , 28, e12661	2.9	2
25	The maintenance of adult peripheral adult nerve and microvascular networks in the rat mesentery culture model. <i>Journal of Neuroscience Methods</i> , 2020 , 346, 108923	3	1
24	Microvascular Network Restructuring Associated with MMP Inhibition in Spontaneously Hypertensive Rats. <i>FASEB Journal</i> , 2008 , 22, 732.8	0.9	1
23	Pericyte Bridges in Homeostasis and Hyperglycemia: Reconsidering Pericyte Dropout and Microvascular Structures		1

22	Tracking Human Adipose-Derived Stem Cells (hASCs) in an Ex Vivo Microvascular Network Model. <i>FASEB Journal</i> , 2015 , 29, 790.2	0.9	1
21	Aging related impairment of brain microvascular bioenergetics involves oxidative phosphorylation and glycolytic pathways.. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022 , 271678X211069266	7.3	1
20	Glycolytic and Oxidative Phosphorylation Defects Precede the Development of Senescence in Primary Human Brain Microvascular Endothelial Cells.. <i>GeroScience</i> , 2022 , 1	8.9	1
19	When angiogenesis is not good enough. <i>Journal of Physiology</i> , 2017 , 595, 1439	3.9	0
18	Viewing Stromal Vascular Fraction de novo Vessel Formation and Association with Host Microvasculature Using the Rat Mesentery Culture Model.. <i>Microcirculation</i> , 2022 , e12758	2.9	0
17	Lymphatic/Blood Endothelial Cell Connections at the Capillary Level in Adult Rat Mesentery. <i>Anatomical Record</i> , 2010 , 293, spc1-spc1	2.1	
16	An Ex Vivo Tissue Culture Method for Discovering Cell Dynamics Involved in Stromal Vascular Fraction Vasculogenesis Using the Mouse Mesentery.. <i>Methods in Molecular Biology</i> , 2022 , 2441, 157-170 ^{1.4}		
15	NG2 proteoglycan expression is functionally involved in microvascular remodeling. <i>FASEB Journal</i> , 2006 , 20, A712	0.9	
14	Analysis of primary valve structure along initial lymphatic networks in adult rat mesentery. <i>FASEB Journal</i> , 2007 , 21, A490	0.9	
13	An Ex Vivo Platform for Studying Angiogenesis in Perfused Microvascular Networks. <i>FASEB Journal</i> , 2018 , 32, 577.1	0.9	
12	Angiogenesis is Not Impaired in Cultured Rat Mesenteric Microvascular Networks. <i>FASEB Journal</i> , 2018 , 32, 578.8	0.9	
11	Stromal Vascular Fraction Vasculogenesis, Vessel Incorporation, and Integration with Intact Angiogenic Microvascular Networks in an Ex Vivo Cultured Tissue Model. <i>FASEB Journal</i> , 2019 , 33, 517.5 ^{0.9}		
10	An Ex Vivo Model for Investigating Transplanted Pancreatic Islet Vascular Integration. <i>FASEB Journal</i> , 2019 , 33, 685.10	0.9	
9	Estimation of Pressure Drop Required for Lymph Flow through Initial Collecting Lymphatics. <i>FASEB Journal</i> , 2015 , 29, 633.2	0.9	
8	Comparison of Network Resistances in Aged Versus Adult Microvascular Networks. <i>FASEB Journal</i> , 2015 , 29, 786.7	0.9	
7	Lysophosphatidic Acid Stimulation Does Not Induce a Lymphatic Identity along Blood Vessels in Intact Microvascular Networks Ex Vivo. <i>FASEB Journal</i> , 2015 , 29, 630.9	0.9	
6	Microvascular NG2 expression patterns in response to aging, ischemic injury, and disease in mouse spinotrapezius muscle. <i>FASEB Journal</i> , 2009 , 23, 592.20	0.9	
5	Biomimetic Models of the Microcirculation for Scientific Discovery and Therapeutic Testing 2021 , 1-23		

- 4 Biomimetic Models of the Microcirculation for Scientific Discovery and Therapeutic Testing.
Reference Series in Biomedical Engineering, **2021**, 321-342
- 3 Estimation of shear stress values along endothelial tip cells past the lumen of capillary sprouts..
Microvascular Research, **2022**, 104360 3.7
- 2 Linking arterial stiffness to microvascular remodeling **2022**, 195-209
- 1 A Novel ex vivo Method for Investigating Vascularization of Transplanted Islets.. *Journal of Vascular Research*, **2022**, 1-10 1.9