

Walter L Murfee

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

1,769
citations

331670

21
h-index

330143

37
g-index

84
all docs

84
docs citations

84
times ranked

2340
citing authors

#	ARTICLE	IF	CITATIONS
1	An Tissue Culture Method for Discovering Cell Dynamics Involved in Stromal Vascular Fraction Using the Mouse Mesentery. <i>Methods in Molecular Biology</i> , 2022, 2441, 157-170.	0.9	1
2	Aging related impairment of brain microvascular bioenergetics involves oxidative phosphorylation and glycolytic pathways. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022, 42, 1410-1424.	4.3	18
3	Glycolytic and Oxidative Phosphorylation Defects Precede the Development of Senescence in Primary Human Brain Microvascular Endothelial Cells. <i>GeroScience</i> , 2022, 44, 1975-1994.	4.6	19
4	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.	3.2	13
5	Estimation of shear stress values along endothelial tip cells past the lumen of capillary sprouts. <i>Microvascular Research</i> , 2022, 142, 104360.	2.5	4
6	Linking arterial stiffness to microvascular remodeling. , 2022, , 195-209.		0
7	Viewing Stromal Vascular Fraction <i>de novo</i> Vessel Formation and Association with Host Microvasculature Using the Rat Mesentery Culture Model. <i>Microcirculation</i> , 2022, , e12758.	1.8	2
8	A Novel <i>ex vivo</i> Method for Investigating Vascularization of Transplanted Islets. <i>Journal of Vascular Research</i> , 2022, 59, 229-238.	1.4	0
9	Incorporation of Tumor Spheroids into an <i>Ex vivo</i> Tissue Culture Model for Investigating Cancer Cell-Microvascular Interactions. <i>FASEB Journal</i> , 2022, 36, .	0.5	0
10	Estimation of Shear Stress Heterogeneity along Capillary Segments in Angiogenic Rat Mesenteric Microvascular Networks. <i>FASEB Journal</i> , 2022, 36, .	0.5	0
11	Microvascular dysfunction and kidney disease: Challenges and opportunities?. <i>Microcirculation</i> , 2021, 28, e12661.	1.8	20
12	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.	1.8	9
13	Biomimetic Models of the Microcirculation for Scientific Discovery and Therapeutic Testing. , 2021, , 1-23.		0
14	Pericyte migration and proliferation are tightly synchronized to endothelial cell sprouting dynamics. <i>Integrative Biology (United Kingdom)</i> , 2021, 13, 31-43.	1.3	19
15	Clinical perspectives on the microcirculation. <i>Microcirculation</i> , 2021, 28, e12688.	1.8	0
16	Computational Evaluation of Wall Shear Stress Experienced by Endothelial Tip Cells along Capillary Sprouts. <i>FASEB Journal</i> , 2021, 35, .	0.5	0
17	Biomimetic Models of the Microcirculation for Scientific Discovery and Therapeutic Testing. <i>Reference Series in Biomedical Engineering</i> , 2021, , 321-342.	0.1	0
18	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.	1.8	13

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19	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.	2.5	2
20	Pericyte Bridges in Homeostasis and Hyperglycemia. <i>Diabetes</i> , 2020, 69, 1503-1517.	0.6	25
21	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.	4.6	8
22	Linking lymphatic function to disease. <i>Journal of Physiology</i> , 2020, 598, 3065-3066.	2.9	3
23	Bioreactor System to Perfuse Mesentery Microvascular Networks and Study Flow Effects During Angiogenesis. <i>Tissue Engineering - Part C: Methods</i> , 2019, 25, 447-458.	2.1	11
24	Emerging topics in microvascular research: Advancing our understanding by interdisciplinary exploration. <i>Microcirculation</i> , 2019, 26, e12558.	1.8	2
25	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.	0.5	0
26	An Ex Vivo Model for Investigating Transplanted Pancreatic Islet Vascular Integration. <i>FASEB Journal</i> , 2019, 33, 685.10.	0.5	0
27	Endothelial Cell Phenotypes are Maintained During Angiogenesis in Cultured Microvascular Networks. <i>Scientific Reports</i> , 2018, 8, 5887.	3.3	20
28	A Microcontroller Operated Device for the Generation of Liquid Extracts from Conventional Cigarette Smoke and Electronic Cigarette Aerosol. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	0
29	Lymphatic Vessel Network Structure and Physiology. , 2018, 9, 207-299.		214
30	Induction of microvascular network growth in the mouse mesentery. <i>Microcirculation</i> , 2018, 25, e12502.	1.8	7
31	A Novel ex vivo Mouse Mesometrium Culture Model for Investigating Angiogenesis in Microvascular Networks. <i>Journal of Vascular Research</i> , 2018, 55, 125-135.	1.4	8
32	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.	4.6	54
33	Understanding angiogenesis during aging: opportunities for discoveries and new models. <i>Journal of Applied Physiology</i> , 2018, 125, 1843-1850.	2.5	29
34	Modelling microvascular pathology. <i>Nature Biomedical Engineering</i> , 2018, 2, 349-350.	22.5	4
35	An <i>Ex Vivo</i> Platform for Studying Angiogenesis in Perfused Microvascular Networks. <i>FASEB Journal</i> , 2018, 32, 577.1.	0.5	0
36	Angiogenesis is Not Impaired in Cultured Rat Mesenteric Microvascular Networks. <i>FASEB Journal</i> , 2018, 32, 578.8.	0.5	0

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37	When angiogenesis is not good enough. <i>Journal of Physiology</i> , 2017, 595, 1439-1439.	2.9	1
38	Evaluation of Arteriolar Smooth Muscle Cell Function in an Ex Vivo Microvascular Network Model. <i>Scientific Reports</i> , 2017, 7, 2195.	3.3	14
39	Microfluidics Technologies and Approaches for Studying the Microcirculation. <i>Microcirculation</i> , 2017, 24, e12377.	1.8	3
40	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.	3.2	13
41	An Ex Vivo Method for Time-Lapse Imaging of Cultured Rat Mesenteric Microvascular Networks. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	15
42	Lysophosphatidic acid does not cause blood/lymphatic vessel plasticity in the rat mesentery culture model. <i>Physiological Reports</i> , 2016, 4, e12857.	1.7	2
43	Laser Direct–Write Onto Live Tissues: A Novel Model for Studying Cancer Cell Migration. <i>Journal of Cellular Physiology</i> , 2016, 231, 2333-2338.	4.1	34
44	Macrophages: An Inflammatory Link Between Angiogenesis and Lymphangiogenesis. <i>Microcirculation</i> , 2016, 23, 95-121.	1.8	240
45	Estimation of the Pressure Drop Required for Lymph Flow through Initial Lymphatic Networks. <i>Lymphatic Research and Biology</i> , 2016, 14, 62-69.	1.1	16
46	An Ex Vivo Tissue Culture Model for Anti-angiogenic Drug Testing. <i>Methods in Molecular Biology</i> , 2016, 1464, 85-95.	0.9	8
47	An Ex Vivo Model for Anti-Angiogenic Drug Testing on Intact Microvascular Networks. <i>PLoS ONE</i> , 2015, 10, e0119227.	2.5	23
48	Printing cancer cells into intact microvascular networks: a model for investigating cancer cell dynamics during angiogenesis. <i>Integrative Biology (United Kingdom)</i> , 2015, 7, 1068-1078.	1.3	58
49	Applications of computational models to better understand microvascular remodelling: a focus on biomechanical integration across scales. <i>Interface Focus</i> , 2015, 5, 20140077.	3.0	12
50	Estimation of Pressure Drop Required for Lymph Flow through Initial Collecting Lymphatics. <i>FASEB Journal</i> , 2015, 29, 633.2.	0.5	0
51	Comparison of Network Resistances in Aged Versus Adult Microvascular Networks. <i>FASEB Journal</i> , 2015, 29, 786.7.	0.5	0
52	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.	0.5	0
53	Tracking Human Adipose–Derived Stem Cells (hASCs) in an Ex Vivo Microvascular Network Model. <i>FASEB Journal</i> , 2015, 29, 790.2.	0.5	1
54	Targeting Pericytes for Angiogenic Therapies. <i>Microcirculation</i> , 2014, 21, 345-357.	1.8	81

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55	<sc>VEGF</sc> Induces Lymphangiogenesis and Angiogenesis in the Rat Mesentery Culture Model. <i>Microcirculation</i> , 2014, 21, 532-540.	1.8	48
56	Vascular islands during microvascular regression and regrowth in adult networks. <i>Frontiers in Physiology</i> , 2013, 4, 108.	2.8	15
57	An angiogenesis model for investigating multicellular interactions across intact microvascular networks. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013, 304, H235-H245.	3.2	53
58	Relationships Between Lymphangiogenesis and Angiogenesis During Inflammation in Rat Mesentery Microvascular Networks. <i>Lymphatic Research and Biology</i> , 2012, 10, 198-207.	1.1	45
59	Spatiotemporal Distribution of Neurovascular Alignment in Remodeling Adult Rat Mesentery Microvascular Networks. <i>Journal of Vascular Research</i> , 2012, 49, 299-308.	1.4	10
60	Rat Mesentery Exteriorization: A Model for Investigating the Cellular Dynamics Involved in Angiogenesis. <i>Journal of Visualized Experiments</i> , 2012, , e3954.	0.3	11
61	Identification of class III β -tubulin as a marker of angiogenic perivascular cells. <i>Microvascular Research</i> , 2012, 83, 257-262.	2.5	38
62	Cell proliferation along vascular islands during microvascular network growth. <i>BMC Physiology</i> , 2012, 12, 7.	3.6	14
63	The effect of microvascular pattern alterations on network resistance in spontaneously hypertensive rats. <i>Medical and Biological Engineering and Computing</i> , 2012, 50, 585-593.	2.8	11
64	Passive recruitment of circulating leukocytes into capillary sprouts from existing capillaries in a microfluidic system. <i>Lab on A Chip</i> , 2011, 11, 1924.	6.0	21
65	Matrix Metalloproteinase Activity Causes VEGFR Cleavage and Microvascular Rarefaction in Rat Mesentery. <i>Microcirculation</i> , 2011, 18, 228-237.	1.8	20
66	Angiogenesis in Mesenteric Microvascular Networks from Spontaneously Hypertensive Versus Normotensive Rats. <i>Microcirculation</i> , 2011, 18, 574-582.	1.8	15
67	The Distribution of Fluid Shear Stresses in Capillary Sprouts. <i>Cardiovascular Engineering and Technology</i> , 2011, 2, 124-136.	1.6	26
68	Lymphatic/Blood Endothelial Cell Connections at the Capillary Level in Adult Rat Mesentery. <i>Anatomical Record</i> , 2010, 293, spc1-spc1.	1.4	0
69	Lymphatic/Blood Endothelial Cell Connections at the Capillary Level in Adult Rat Mesentery. <i>Anatomical Record</i> , 2010, 293, 1629-1638.	1.4	25
70	Microvascular NG2 expression patterns in response to aging, ischemic injury, and disease in mouse spinotrapezius muscle. <i>FASEB Journal</i> , 2009, 23, 592.20.	0.5	0
71	Chapter 12 Structure of Microvascular Networks in Genetic Hypertension. <i>Methods in Enzymology</i> , 2008, 444, 271-284.	1.0	25
72	Microvascular Network Restructuring Associated with MMP Inhibition in Spontaneously Hypertensive Rats. <i>FASEB Journal</i> , 2008, 22, 732.8.	0.5	1

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73	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, 81-90.	1.1	48
74	Computational Network Model Prediction of Hemodynamic Alterations Due to Arteriolar Remodeling in Interval Sprint Trained Skeletal Muscle. <i>Microcirculation</i> , 2007, 14, 181-192.	1.8	24
75	EphB4 Expression Along Adult Rat Microvascular Networks: EphB4 Is More Than a Venous Specific Marker. <i>Microcirculation</i> , 2007, 14, 253-267.	1.8	28
76	Analysis of primary valve structure along initial lymphatic networks in adult rat mesentery. <i>FASEB Journal</i> , 2007, 21, A490.	0.5	0
77	Perivascular Cells Along Venules Upregulate NG2 Expression During Microvascular Remodeling. <i>Microcirculation</i> , 2006, 13, 261-273.	1.8	70
78	NG2 proteoglycan expression is functionally involved in microvascular remodeling. <i>FASEB Journal</i> , 2006, 20, A712.	0.5	0
79	Differential Arterial/Venous Expression of NG2 Proteoglycan in Perivascular Cells Along Microvessels: Identifying a Venule-Specific Phenotype. <i>Microcirculation</i> , 2005, 12, 151-160.	1.8	119
80	Cell Proliferation in Mesenteric Microvascular Network Remodeling in Response to Elevated Hemodynamic Stress. <i>Annals of Biomedical Engineering</i> , 2004, 32, 1662-1666.	2.5	6
81	Enhanced Smooth Muscle Cell Coverage of Microvessels Exposed to Increased Hemodynamic Stresses In Vivo. <i>Circulation Research</i> , 2003, 92, 929-936.	4.5	66
82	A Challenge for Engineering Biomimetic Microvascular Models: How do we Incorporate the Physiology?. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 10, .	4.1	3