# Walter L Murfee

## List of Publications by Year in Descending Order



| | | | |
|---|---|---|---|
| 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 | An Ex Vivo Tissue Culture Method for Discovering Cell Dynamics Involved in Stromal Vascular Fraction Vasculogenesis Using the Mouse Mesentery.. *Methods in Molecular Biology*, **2022**, 2441, 157-170 | 1.4 | |
| 74 | Aging related impairment of brain microvascular bioenergetics involves oxidative phosphorylation and glycolytic pathways.. *Journal of Cerebral Blood Flow and Metabolism*, **2022**, 271678X211069266 | 7.3 | 1 |
| 73 | Glycolytic and Oxidative Phosphorylation Defects Precede the Development of Senescence in Primary Human Brain Microvascular Endothelial Cells.. *GeroScience*, **2022**, 1 | 8.9 | 1 |
| 72 | State of the field: cellular and exosomal therapeutic approaches in vascular regeneration.. *American Journal of Physiology - Heart and Circulatory Physiology*, **2022**, 322, H647-H680 | 5.2 | 3 |
| 71 | Estimation of shear stress values along endothelial tip cells past the lumen of capillary sprouts.. *Microvascular Research*, **2022**, 104360 | 3.7 | |
| 70 | Linking arterial stiffness to microvascular remodeling **2022**, 195-209 | | |
| 69 | Viewing Stromal Vascular Fraction de novo Vessel Formation and Association with Host Microvasculature Using the Rat Mesentery Culture Model.. *Microcirculation*, **2022**, e12758 | 2.9 | 0 |
| 68 | A Novel ex vivo Method for Investigating Vascularization of Transplanted Islets.. *Journal of Vascular Research*, **2022**, 1-10 | 1.9 | |
| 67 | Microvascular dysfunction and kidney disease: Challenges and opportunities?. *Microcirculation*, **2021**, 28, e12661 | 2.9 | 2 |
| 66 | A clinical perspective on adipose-derived cell therapy for enhancing microvascular health and function: Implications and applications for reconstructive surgery. *Microcirculation*, **2021**, 28, e12672 | 2.9 | 5 |
| 65 | Biomimetic Models of the Microcirculation for Scientific Discovery and Therapeutic Testing **2021**, 1-23 | | |
| 64 | Pericyte migration and proliferation are tightly synchronized to endothelial cell sprouting dynamics. *Integrative Biology (United Kingdom)*, **2021**, 13, 31-43 | 3.7 | 3 |
| 63 | Biomimetic Models of the Microcirculation for Scientific Discovery and Therapeutic Testing. *Reference Series in Biomedical Engineering*, **2021**, 321-342 | | |
| 62 | The maintenance of adult peripheral adult nerve and microvascular networks in the rat mesentery culture model. *Journal of Neuroscience Methods*, **2020**, 346, 108923 | 3 | 1 |
| 61 | Pericyte Bridges in Homeostasis and Hyperglycemia. *Diabetes*, **2020**, 69, 1503-1517 | 0.9 | 14 |
| 60 | A novel tissue culture model for evaluating the effect of aging on stem cell fate in adult microvascular networks. *GeroScience*, **2020**, 42, 515-526 | 8.9 | 6 |
| 59 | Linking lymphatic function to disease. *Journal of Physiology*, **2020**, 598, 3065-3066 | 3.9 | 2 |

| | | | |
|---|---|---|---|
| 58 | Lymphatic-to-blood vessel transition in adult microvascular networks: A discovery made possible by a top-down approach to biomimetic model development. *Microcirculation*, **2020**, 27, e12595 | 2.9 | 7 |
| 57 | Bioreactor System to Perfuse Mesentery Microvascular Networks and Study Flow Effects During Angiogenesis. *Tissue Engineering - Part C: Methods*, **2019**, 25, 447-458 | 2.9 | 8 |
| 56 | Stromal Vascular Fraction Vasculogenesis, Vessel Incorporation, and Integration with Intact Angiogenic Microvascular Networks in an Ex Vivo Cultured Tissue Model. *FASEB Journal*, **2019**, 33, 517.5 | 0.9 | |
| 55 | An Ex Vivo Model for Investigating Transplanted Pancreatic Islet Vascular Integration. *FASEB Journal*, **2019**, 33, 685.10 | 0.9 | |
| 54 | Endothelial Cell Phenotypes are Maintained During Angiogenesis in Cultured Microvascular Networks. *Scientific Reports*, **2018**, 8, 5887 | 4.9 | 13 |
| 53 | A novel high-throughput assay for respiration in isolated brain microvessels reveals impaired mitochondrial function in the aged mice. *GeroScience*, **2018**, 40, 365-375 | 8.9 | 35 |
| 52 | Understanding angiogenesis during aging: opportunities for discoveries and new models. *Journal of Applied Physiology*, **2018**, 125, 1843-1850 | 3.7 | 13 |
| 51 | Modelling microvascular pathology. *Nature Biomedical Engineering*, **2018**, 2, 349-350 | 19 | 4 |
| 50 | An Ex Vivo Platform for Studying Angiogenesis in Perfused Microvascular Networks. *FASEB Journal*, **2018**, 32, 577.1 | 0.9 | |
| 49 | Angiogenesis is Not Impaired in Cultured Rat Mesenteric Microvascular Networks. *FASEB Journal*, **2018**, 32, 578.8 | 0.9 | |
| 48 | Lymphatic Vessel Network Structure and Physiology. *Comprehensive Physiology*, **2018**, 9, 207-299 | 7.7 | 108 |
| 47 | Induction of microvascular network growth in the mouse mesentery. *Microcirculation*, **2018**, 25, e12502 | 2.9 | 6 |
| 46 | A Novel ex vivo Mouse Mesometrium Culture Model for Investigating Angiogenesis in Microvascular Networks. *Journal of Vascular Research*, **2018**, 55, 125-135 | 1.9 | 5 |
| 45 | When angiogenesis is not good enough. *Journal of Physiology*, **2017**, 595, 1439 | 3.9 | 0 |
| 44 | Evaluation of Arteriolar Smooth Muscle Cell Function in an Ex Vivo Microvascular Network Model. *Scientific Reports*, **2017**, 7, 2195 | 4.9 | 10 |
| 43 | Aging is associated with impaired angiogenesis, but normal microvascular network structure, in the rat mesentery. *American Journal of Physiology - Heart and Circulatory Physiology*, **2017**, 312, H275-H284 | 5.2 | 10 |
| 42 | An Ex Vivo Method for Time-Lapse Imaging of Cultured Rat Mesenteric Microvascular Networks. *Journal of Visualized Experiments*, **2017**, | 1.6 | 10 |
| 41 | Lysophosphatidic acid does not cause blood/lymphatic vessel plasticity in the rat mesentery culture model. *Physiological Reports*, **2016**, 4, e12857 | 2.6 | 2 |

| | | | |
|---|---|---|---|
| 40 | Macrophages: An Inflammatory Link Between Angiogenesis and Lymphangiogenesis. *Microcirculation*, **2016**, 23, 95-121 | 2.9 | 163 |
| 39 | Estimation of the Pressure Drop Required for Lymph Flow through Initial Lymphatic Networks. *Lymphatic Research and Biology*, **2016**, 14, 62-9 | 2.3 | 12 |
| 38 | An Ex Vivo Tissue Culture Model for Anti-angiogenic Drug Testing. *Methods in Molecular Biology*, **2016**, 1464, 85-95 | 1.4 | 5 |
| 37 | Laser Direct-Write Onto Live Tissues: A Novel Model for Studying Cancer Cell Migration. *Journal of Cellular Physiology*, **2016**, 231, 2333-8 | 7 | 26 |
| 36 | Printing cancer cells into intact microvascular networks: a model for investigating cancer cell dynamics during angiogenesis. *Integrative Biology (United Kingdom)*, **2015**, 7, 1068-78 | 3.7 | 49 |
| 35 | Applications of computational models to better understand microvascular remodelling: a focus on biomechanical integration across scales. *Interface Focus*, **2015**, 5, 20140077 | 3.9 | 10 |
| 34 | An ex vivo model for anti-angiogenic drug testing on intact microvascular networks. *PLoS ONE*, **2015**, 10, e0119227 | 3.7 | 19 |
| 33 | Estimation of Pressure Drop Required for Lymph Flow through Initial Collecting Lymphatics. *FASEB Journal*, **2015**, 29, 633.2 | 0.9 | |
| 32 | Comparison of Network Resistances in Aged Versus Adult Microvascular Networks. *FASEB Journal*, **2015**, 29, 786.7 | 0.9 | |
| 31 | Lysophosphatidic Acid Stimulation Does Not Induce a Lymphatic Identity along Blood Vessels in Intact Microvascular Networks Ex Vivo. *FASEB Journal*, **2015**, 29, 630.9 | 0.9 | |
| 30 | Tracking Human Adipose-Derived Stem Cells (hASCs) in an Ex Vivo Microvascular Network Model. *FASEB Journal*, **2015**, 29, 790.2 | 0.9 | 1 |
| 29 | Targeting pericytes for angiogenic therapies. *Microcirculation*, **2014**, 21, 345-57 | 2.9 | 69 |
| 28 | VEGF-C induces lymphangiogenesis and angiogenesis in the rat mesentery culture model. *Microcirculation*, **2014**, 21, 532-40 | 2.9 | 34 |
| 27 | Vascular islands during microvascular regression and regrowth in adult networks. *Frontiers in Physiology*, **2013**, 4, 108 | 4.6 | 10 |
| 26 | An angiogenesis model for investigating multicellular interactions across intact microvascular networks. *American Journal of Physiology - Heart and Circulatory Physiology*, **2013**, 304, H235-45 | 5.2 | 41 |
| 25 | Identification of class III β-tubulin as a marker of angiogenic perivascular cells. *Microvascular Research*, **2012**, 83, 257-62 | 3.7 | 31 |
| 24 | Cell proliferation along vascular islands during microvascular network growth. *BMC Physiology*, **2012**, 12, 7 | 0 | 12 |
| 23 | The effect of microvascular pattern alterations on network resistance in spontaneously hypertensive rats. *Medical and Biological Engineering and Computing*, **2012**, 50, 585-93 | 3.1 | 9 |

| | | | |
|---|---|---|---|
| 22 | Relationships between lymphangiogenesis and angiogenesis during inflammation in rat mesentery microvascular networks. *Lymphatic Research and Biology*, **2012**, 10, 198-207 | 2.3 | 34 |
| 21 | Spatiotemporal distribution of neurovascular alignment in remodeling adult rat mesentery microvascular networks. *Journal of Vascular Research*, **2012**, 49, 299-308 | 1.9 | 10 |
| 20 | Rat mesentery exteriorization: a model for investigating the cellular dynamics involved in angiogenesis. *Journal of Visualized Experiments*, **2012**, e3954 | 1.6 | 9 |
| 19 | Passive recruitment of circulating leukocytes into capillary sprouts from existing capillaries in a microfluidic system. *Lab on A Chip*, **2011**, 11, 1924-32 | 7.2 | 20 |
| 18 | Matrix metalloproteinase activity causes VEGFR-2 cleavage and microvascular rarefaction in rat mesentery. *Microcirculation*, **2011**, 18, 228-37 | 2.9 | 18 |
| 17 | Angiogenesis in mesenteric microvascular networks from spontaneously hypertensive versus normotensive rats. *Microcirculation*, **2011**, 18, 574-82 | 2.9 | 14 |
| 16 | The Distribution of Fluid Shear Stresses in Capillary Sprouts. *Cardiovascular Engineering and Technology*, **2011**, 2, 124-136 | 2.2 | 18 |
| 15 | Lymphatic/Blood Endothelial Cell Connections at the Capillary Level in Adult Rat Mesentery. *Anatomical Record*, **2010**, 293, spc1-spc1 | 2.1 | |
| 14 | Lymphatic/Blood endothelial cell connections at the capillary level in adult rat mesentery. *Anatomical Record*, **2010**, 293, 1629-38 | 2.1 | 21 |
| 13 | Microvascular NG2 expression patterns in response to aging, ischemic injury, and disease in mouse spinotrapezius muscle. *FASEB Journal*, **2009**, 23, 592.20 | 0.9 | |
| 12 | Chapter 12. Structure of microvascular networks in genetic hypertension. *Methods in Enzymology*, **2008**, 444, 271-84 | 1.7 | 20 |
| 11 | Microvascular Network Restructuring Associated with MMP Inhibition in Spontaneously Hypertensive Rats. *FASEB Journal*, **2008**, 22, 732.8 | 0.9 | 1 |
| 10 | Computational network model prediction of hemodynamic alterations due to arteriolar remodeling in interval sprint trained skeletal muscle. *Microcirculation*, **2007**, 14, 181-92 | 2.9 | 22 |
| 9 | EphB4 expression along adult rat microvascular networks: EphB4 is more than a venous specific marker. *Microcirculation*, **2007**, 14, 253-67 | 2.9 | 27 |
| 8 | Discontinuous expression of endothelial cell adhesion molecules along initial lymphatic vessels in mesentery: the primary valve structure. *Lymphatic Research and Biology*, **2007**, 5, 81-9 | 2.3 | 34 |
| 7 | Analysis of primary valve structure along initial lymphatic networks in adult rat mesentery. *FASEB Journal*, **2007**, 21, A490 | 0.9 | |
| 6 | Perivascular cells along venules upregulate NG2 expression during microvascular remodeling. *Microcirculation*, **2006**, 13, 261-73 | 2.9 | 60 |
| 5 | NG2 proteoglycan expression is functionally involved in microvascular remodeling. *FASEB Journal*, **2006**, 20, A712 | 0.9 | |

| | | | |
|---|---|---|---|
| 4 | Differential arterial/venous expression of NG2 proteoglycan in perivascular cells along microvessels: identifying a venule-specific phenotype. *Microcirculation*, **2005**, 12, 151-60 | 2.9 | 104 |
| 3 | Cell proliferation in mesenteric microvascular network remodeling in response to elevated hemodynamic stress. *Annals of Biomedical Engineering*, **2004**, 32, 1662-6 | 4.7 | 6 |
| 2 | Enhanced smooth muscle cell coverage of microvessels exposed to increased hemodynamic stresses in vivo. *Circulation Research*, **2003**, 92, 929-36 | 15.7 | 57 |
| 1 | Pericyte Bridges in Homeostasis and Hyperglycemia: Reconsidering Pericyte Dropout and Microvascular Structures | | 1 |