

Josh Butcher, Ph.D.

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Education:

Ph.D., Cellular and Integrative Physiology from West Virginia University

M.S., Chemistry from the University of Kentucky

B.A., Biology from Asbury University

Academic Appointments:

2013-2015: Post-Doctoral Fellow at the Robert M. Berne Cardiovascular Center, University of Virginia

2015-2018: Post-Doctoral Fellow at the Vascular Biology Center at the Medical College of Georgia at Augusta University

2018-2019: Instructor at the Vascular Biology Center at the Medical College of Georgia at Augusta University

2019-present: Assistant Professor in the Department of Physiological Sciences at the College of Veterinary Medicine at Oklahoma State University

Awards and Honors:

2020: Co-Chair for the Microcirculatory Society President's Poster Session at Experimental Biology

2019: Selected for Butler-Williams Scholars Program, National Institute on Aging at NIH, Bethesda, MD

2018: Guest Editor for Special Topics Issue of Microcirculation (Jan. 2019)

2018: Co-chair, World Congress for Microcirculation, Angiogenesis and Remodeling Session

2018-2021: Member of the Microcirculatory Society Awards Committee

2018: President, Augusta University Postdoctoral Association

2018: Selected for Oral Presentation, World Congress of Microcirculation, Vancouver

2018: Research Distinction Postdoctoral Award, APS WEH section at Experimental Biology, San Diego

2018: Tum Suden/Hellebrandt Award at Experimental Biology, San Diego

2017: Selected for Oral Presentation, Muscle Biology Conference

2016: Award for Excellence in Research, Augusta University

Selected Publications:

1. Butcher JT, Mintz JD, Larion S, Qiu S, Ruan L, Fulton DJ, Stepp DW. Increased Muscle Mass Protects Against Hypertension and Renal Injury in Obesity. *J Am Heart Assoc.* 2018 Aug 21;7(16):e009358. doi: 10.1161/JAHA.118.009358. PubMed PMID: 30369309; PubMed Central PMCID: PMC6201396.
2. Barman SA, Li X, Haigh S, Kondrikov D, Mahboubi K, Bordan Z, Stepp DW, Zhou J, Wang Y, Weintraub DS, Traber P, Snider W, Jonigk D, Sullivan JC, Crislip GR, Butcher JT, Thompson J, Su Y, Chen F, Fulton DJR. Galectin-3 is Expressed in Vascular Smooth Muscle Cells and Promotes Pulmonary Hypertension through changes in Proliferation, Apoptosis and Fibrosis. *Am J Physiol Lung Cell Mol Physiol.* 2019 Feb 6. doi: 10.1152/ajplung.00186.2018. [Epub ahead of print] PMID: 30724100
3. Lechauve C, Butcher JT, Freiwan A, Biwer LA, Keith JM, Good ME, Ackerman H, Tillman HS, Kiger L, Isakson BE, Weiss MJ. Endothelial cell α -globin and its molecular chaperone α -hemoglobin-stabilizing protein regulate arteriolar contractility. *J Clin Invest.* 2018 Nov 1;128(11):5073-5082. doi: 10.1172/JCI99933. Epub 2018 Oct 8. PubMed PMID: 30295646
4. Keller TC 4th, Butcher JT, Broseghini-Filho GB, Marziano C, DeLalio LJ, Rogers S, Ning B, Martin JN, Chechova S, Cabot M, Shu X, Best AK, Good ME, Simão Padilha A, Purdy M, Yeager M, Peirce SM, Hu S, Doctor A, Barrett E, Le TH, Columbus L, Isakson BE. Modulating Vascular Hemodynamics With an Alpha Globin Mimetic Peptide (HbaX). *Hypertension.* 2016 Dec;68(6):1494-1503. Epub 2016 Oct 31. PubMed PMID: 27802421; PubMed Central PMCID: PMC5159279.
5. Butcher JT, Goodwill AG, Stanley SC, Frisbee JC. Blunted temporal activity of microvascular perfusion heterogeneity in metabolic syndrome: a new attractor for peripheral vascular disease? *Am J Physiol Heart Circ Physiol.* 2013 Feb 15;304(4):H547-58. doi: 10.1152/ajpheart.00805.2012. Epub 2012 Dec 21. PubMed PMID: 23262133; PubMed Central PMCID: PMC3566484.