Date of Document: November 14, 2026

CURRICULUM VITAE

Stephen T. Hammond

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Division of Medicine Cardiovascular

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MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:

2013 - 2014 North Carolina Alliance for Athletics, Health, Physical Education, Recreation, Dance, and Sport Management (NCAAHPERD-SM) (Member)
2015 - Present American College of Sports Medicine (ACSM) (Member)
2018 - Present American Physiological Society (APS) (Member)
2021 - 2022 Kansas Academy of Science (KAS) (Member)
2023 - Present North American Vascular Biology Organization (NAVBO) (Member)
2023 - Present The Microcirculatory Society (MCS) (Member)
2024 - Present American Heart Association (AHA) (Member)
2025 - Present North American Artery Society (NAA) (Member)

EDITORSHIPS/EDITORIAL BOARDS/JOURNAL REVIEWS:

Editorship
2026 - Present Guest Editor, Microcirculation
2026 - Present Junior Associate Editor, Journal of Vascular Research
Ad-Hoc Reviewer
2021 - Present Supportive Care in Cancer
2021 - Present International Journal of Cardiology
2022 - Present Medicine & Science in Sports & Exercise
2023 - Present Cancer Medicine
2023 - Present European Journal of Preventive Cardiology
2023 - Present American Journal of Physiology-Heart and Circulatory Physiology
2023 - Present American Journal of Physiology-Renal Physiology
2024 - Present Microcirculation
2025 - Present Microvascular Research
2026 - Present Quantitative Imaging in Medicine and Surgery

LOCAL/REGIONAL APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

02/2023 - Present Member, Postdoctoral Advisory Committee (PAC), Medical College of Wisconsin
02/2023 - Present Cardiovascular Center Representative, Postdoctoral Advisory Committee (PAC), Medical College of Wisconsin
08/2023 - 12/2025 Co-Chair, Website Design Committee, Postdoctoral Advisory Committee (PAC), Medical College of Wisconsin
09/2023 - 12/2025 Co-Chair, Awards Committee, Postdoctoral Advisory Committee (PAC), Medical College of Wisconsin
08/2025 - Present Chair, Mentoring Committee, Medical College of Wisconsin, Postdoctoral Advisory Committee (PAC)

NATIONAL ELECTED/APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

05/2024 - Present Member, Trainee Committee, Microcirculatory Society (MCS)
01/2026 - Present Trainee Representative, Translational Physiology Interest Group (TPIG) Steering Committee, American Physiological Society

RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS:

Active

Peer Review

Title:	Unraveling the role of tumor-derived circulating factors in the manifestation of cancer treatment-induced cardiotoxicity
Source:	American Heart Association (Postdoctoral Fellowship)
PI:	Hammond, ST
Dates:	01/01/2026 - 12/31/2027

INVITED LECTURES/WORKSHOPS/PRESENTATIONS:

International

Hammond ST, The effects of commonly administered chemotherapies on microvascular function, American Physiology Summit, Session: A Multidisciplinary View on Chemotherapy-related Physiological Dysfunction, Long Beach, CA, - 04/05/2024

National

Hammond ST, The effects of commonly administered cancer treatments on microvascular function, American Heart Association (AHA) Monthly Strategic Network Meeting, Virtual, - 10/07/2024

Local

Hammond ST, Cardiovascular complications of 5-fluorouracil chemotherapy: Potential mechanisms and modalities for prevention, Department of Physiology Seminar Series, Medical College of Wisconsin, Milwaukee, WI, - 12/20/2023

Hammond ST, The role of exercise in the prevention of cancer and associated side effects, Penn State University, Kinesiology 350 Exercise Physiology, Virtual, - 10/24/2025

Hammond ST, From clinic to culture: Improving our understanding of cancer associated cardiotoxicity, Johnson Cancer Research Center Cancer Fighters Seminar, Kansas State University, Manhattan, KS (Virtual), - 03/30/2023

Hammond ST, 5-Fluorouracil Cardiotoxicity: From Clinic to Culture, Cardiovascular Center Athersclerosis, Thrombosis, and Vascular Biology (ATVB) Seminar Series, Medical College of Wisconsin, Milwaukee, WI, - 06/06/2022

PEER REVIEWED WORKSHOPS/PRESENTATIONS:

International

Hammond ST, Birch EC, Nishijima Y, Mis B, Hader SN, Beyer AM, The Effects of 5-Fluorouracil Chemotherapy on Human Microvascular Endothelial Function, American Physiology Summit, Microcirculatory Society Pre-Meeting, Session: Emerging Topics in Microcirculation, Baltimore, MD, - 04/25/2025

Hammond ST, Circulating factors as key contributors to endothelial dysfunction following anticancer therapy, Vascular Biology Annual Meeting, Session: Inflammation and Cancer, Newport, RI, - 10/18/2023

Hammond ST, Nishijima Y, Mis B, Beyer AM, Potential role of mitochondrial reactive oxygen species in the manifestation of 5-fluorouracil-induced microvascular dysfunction, Microcirculatory Society (MCS) Pre-Meeting, American Physiology Summit, Minneapolis, MN, USA, - 04/23/2026

Hammond ST, Baumfalk DR, Horn AG, Kunkel OK, Parr SK, Coburn TD, Schadler KL, Ade CJ, Behnke, BJ, Acute exercise in 5-Fluorouracil cardiotoxicity: Effects on cardiac function and reverse phase protein analysis, Experimental Biology Annual Meeting, Session: Exercise and Cancer Care: From the Bench to the Clinic, Philadelphia, PA, - 04/05/2022

National

Plasma circulating factors contribute to microvascular dysfunction following anticancer therapy, American Heart Association (AHA) Annual Strategic Network Annual Meeting, Dallas, TX, - 09/25/2024

Local

Hammond ST, Terwoord JD, Nisijima Y, Hader SN, Birch EC, Beyer AM, Circulating factors as key contributors to endothelial dysfunction following anticancer therapy, 10th Annual Medical College of Wisconsin Department of Medicine Research Retreat, Milwaukee, WI, - 03/15/2024

Hammond ST, VanWart JM, Terwoord JD, Nishijima Y, Hader SN, Birch EC, Norwood Toro LE, Beyer AM, Do Circulating mtDNA Fragments Contribute to Anti-Cancer Therapy-induced Microvascular Endothelial Dysfunction?, Medical College of Wisconsin Annual Cardiovascular Center Research Retreat, Medical College of Wisconsin, Milwaukee, WI, - 11/11/2024

Hammond ST, Lindsay T, McGregor, SJ, The effect of select gait variables and axial accelerations on the running economy of highly trained athletes, American College of Sports Medicine - Michigan Chapter Annual Meeting, Gaylord, MI, - 02/2017

Hammond ST, Baumfalk DR, Horn AG, Kunkel OK, Parr SK, Coburn TD, Schadler KL, Ade CJ, Behnke, BJ, The role of exercise in prevention of 5-Fluorouracil chemotherapy induced cardiotoxicity, Kansas Academy of Sciences Annual Meeting, Sterling College, Sterling, KS, - 04/02/2022

Hammond ST, Lindsay T, McGregor SJ, Validity of an approach using two defined – distance running trials for determination of critical speed, American College of Sports Medicine - Michigan Chapter Annual Meeting, Gaylord, MI, - 02/2016

Hammond ST, Beyer AM, The role of secondary signaling in the development of endothelial dysfunction following anticancer therapy, Cancer Center Trainee Symposium, Zoofari Center, Milwaukee, WI, - 03/07/2024

Hammond ST, Lindsay T, McGregor SJ, Differences in acceleration, stride lengths, and stance time between trained and untrained low BMI individuals, American College of Sports Medicine - Michigan Chapter Annual Meeting, Gaylord, MI, - 02/2015

Hammond ST, 5-fluorouracil chemotherapy impairs endothelial function and causes dose-dependent vasoconstriction in human arterioles, Medical College of Wisconsin 12th Annual Department of Medicine Research Retreat, Milwaukee, WI, - 03/06/2026

Hammond, ST, Skin blood vessel responses following 5-Fluorouracil chemotherapy administration, Capitol Graduate Research Summit, Virtual, - 02/02/2021

BIBLIOGRAPHY

Refereed Journal Publications/Original Papers

1. Caldwell JT, Sutterfield SL, Post HK, Lovoy GM, Banister HR, Turpin VG, Colburn TD, **Hammond SS**, Copp SW, Ade CJ. Impact of high sodium intake on blood pressure and functional sympatholysis during rhythmic handgrip exercise. Appl Physiol Nutr Metab. 2020 Jun;45(6):613-620.
2. Terwoord JD, Norwood Toro LE, Hader SN, **Hammond ST**, Hockenberry JC, Linn J, Vazirabad IY, Kong AL, Kriegel AJ, Liu Z, Kivelä RM, Murtagh G, Gutterman DD, Beyer AM. Characterization of anticancer therapy-induced microvascular dysfunction in patients with breast cancer supports targeted intervention. JCI Insight. 2025 Nov 24;10(22). PMCID: PMC12643535
3. Butenas ALE, Rollins KS, Matney JE, Williams AC, Kleweno TE, Parr SK, **Hammond ST**, Ade CJ, Hageman KS, Musch TI, Copp SW. No effect of endoperoxide 4 or thromboxane A₂ receptor blockade on static mechanoreflex activation in rats with heart failure. Exp Physiol. 2020 Nov;105(11):1840-1854. PMCID: PMC7981290
4. Butenas ALE, Rollins KS, Williams AC, Parr SK, **Hammond ST**, Ade CJ, Hageman KS, Musch TI, Copp SW. Exaggerated sympathetic and cardiovascular responses to dynamic mechanoreflex activation in rats with heart failure: Role of endoperoxide 4 and thromboxane A₂ receptors. Auton Neurosci. 2021 May;232:102784. PMCID: PMC8035322
5. **Hammond ST**, Baumfalk DR, Horn AG, Scheuermann BC, Kunkel ON, Ade CJ, Behnke BJ. Exercise pre-conditioning prevents vascular toxicity caused by infusion of 5-fluorouracil in male rats. Am J Cancer Res. 2025;15(9):4092-4107. PMCID: PMC12531288
6. Banister HR, **Hammond ST**, Parr SK, Sutterfield SL, Turpin VG, Treinen S, Bell MJ, Ade CJ. Lower endothelium-dependent microvascular function in adult breast cancer patients receiving radiation

therapy. Cardiooncology. 2021 May 13;7(1):18. PMCID: PMC8117502

7. Parr SK, Steele CC, **Hammond ST**, Turpin VRG, Ade CJ. Arterial stiffness is associated with cardiovascular and cancer mortality in cancer patients: Insight from NHANESIII. Int J Cardiol Hypertens. 2021 Jun;9:100085. PMCID: PMC8167280
8. Hammer SM, **Hammond ST**, Parr SK, Alexander AM, Turpin VG, White ZJ, Didier KD, Smith JR, Barstow TJ, Ade CJ. Influence of muscular contraction on vascular conductance during exercise above versus below critical power. Respir Physiol Neurobiol. 2021 Nov;293:103718. PMCID: PMC8877527
9. Ade CJ, Turpin VG, Parr SK, **Hammond ST**, White Z, Weber RE, Schulze KM, Colburn TD, Poole DC. Does wearing a facemask decrease arterial blood oxygenation and impair exercise tolerance? Respir Physiol Neurobiol. 2021 Dec;294:103765. PMCID: PMC9715989
10. Butenas ALE, Rollins KS, Williams AC, Parr SK, **Hammond ST**, Ade CJ, Hageman KS, Musch TI, Copp SW. Thromboxane A₂ receptors contribute to the exaggerated exercise pressor reflex in male rats with heart failure. Physiol Rep. 2021 Sep;9(18):e15052. PMCID: PMC8461035
11. Butenas ALE, Rollins KS, Parr SK, **Hammond ST**, Ade CJ, Hageman KS, Musch TI, Copp SW. Novel mechanosensory role for acid sensing ion channel subtype 1a in evoking the exercise pressor reflex in rats with heart failure. J Physiol. 2022 May;600(9):2105-2125. PMCID: PMC9893514
12. Ade CJ, Dockery L, Walter AC, Benbrook DM, Vesely SK, **Hammond ST**, Moore KN, Holman LL. Association between Serum Biomarkers with Postoperative Complications and Delay of Adjuvant Chemotherapy Initiation in Ovarian Cancer Patients Undergoing Primary Cytoreductive Surgery: A Pilot Study. Nutr Cancer. 2023;75(2):662-669. PMCID: PMC10127353
13. Turpin VG, Lovoy GM, Parr SK, **Hammond ST**, Post HK, Caldwell JT, Banister HR, Scheuermann BC, Colburn TD, Ade CJ. Inorganic nitrate supplementation may improve diastolic function and the O₂ cost of exercise in cancer survivors: a pilot study. Support Care Cancer. 2022 Dec 19;31(1):63.
14. Turpin VG, Parr SK, **Hammond ST**, White ZJ, Tickner PJ, Chisam CE, Goerl KV, Drezner JA, Ade CJ. Cardiac changes in collegiate athletes following SARS-CoV-2 infection and quarantine: a prospective Case-Control study. Ann Med. 2023;55(2):2269586. PMCID: PMC10836285
15. **Hammond ST**, Baumfalk DR, Parr SK, Butenas ALE, Scheuermann BC, Turpin VG, Behnke BJ, Hashmi MH, Ade CJ. Impaired microvascular reactivity in patients treated with 5-fluorouracil chemotherapy regimens: Potential role of endothelial dysfunction. Int J Cardiol Heart Vasc. 2023 Dec;49:101300. PMCID: PMC10761309

Books, Chapters, and Reviews

1. SenthilKumar G, **Hammond ST**, Zirgibel Z, Cohen KE, Beyer AM, Freed JK. Is the peripheral microcirculation a window into the human coronary microvasculature? J Mol Cell Cardiol. 2024 Aug;193:67-77. PMCID: PMC11260236
2. **Hammond ST**, Brandt L, Kong AL, White SB, Lewandowski D, Beyer AM. Safety and Treatment Efficacy of Systemic, Locoregional, and Nanoparticle Encapsulated Anthracycline Chemotherapy: Insights Into Cardiotoxicity. Arterioscler Thromb Vasc Biol. 2026 Jun;46(6):e319865. PMCID: PMC13048292

Editorials, Letters To Editor, Other

1. Zhang L, **Hammond ST**, Leonard-Duke J, Mironova GY, Singh R, Taib S, Wu NW, Senarathna J, Meegan JE. Microcirculation From Head to Toe. Microcirculation. 2026 Jan;33(1):e70037.