Jasdeep Kaur, Ph.D.

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Austin TX 78712
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EDUCATION

2012-2016	Ph.D. Physiology Wayne State University School of Medicine, Detroit, MI
2008-2012	B.S. Biological Sciences, *summa cum laude* Wayne State University, Detroit, MI

POSITIONS AND EMPLOYMENT

08/20-	Assistant Professor, University of Texas at Austin, Department of Kinesiology and Health Education, Austin, TX
06/16-07/20	Postdoctoral Fellow, University of Texas at Arlington, Department of Kinesiology, Arlington, TX

AWARDS, HONORS, DISTINCTIONS

Awards and Honors

2022	Provost's Mentored Faculty Scholars Program, University of Texas at Austin
2019	Caroline tum Suden/Frances Hellebrandt Professional Opportunity Award, American Physiological Society Trainee Award
2018	American Physiological Society Neural Control and Autonomic Regulation (NCAR) Trainee Award
2016	Marion I. Barnhart Graduate Student of the Year Award, Wayne State University
2016	Graduate and Postdoctoral Research Symposium – 3rd place poster presentation
2015	Marion I. Barnhart Graduate Student of the Year Award, Wayne State University
2013	Phi Beta Kappa
2010	Mary Ann Memorial Scholarship, Wayne State University, MI

Fellowships

2020	American Heart Association Postdoctoral Fellowship
2015	Thomas C. Rumble University Graduate Fellowship
2012	Interdisciplinary Biomedical Sciences Fellowship, Wayne State University
2011	Summer Undergraduate Research Fellowship, Wayne State University

GRANTS: FUNDED

Title: *Role of Reduced Nitric Oxide in Sympathetic Overactivity in Chronic Kidney Disease*
Role: PI
American Heart Association Postdoctoral Fellowship (Award 20POST35180206)
Duration: 01/01/2020 – 12/31/2021
Budget: $ 131,356.00

GRANTS: UNDER REVIEW

Title: *Neural Control of Cardiovascular Function in Hispanic/Latino Adults*
Role: PI
NIH R21
Duration: 07/01/2023 – 06/30/2025
Budget: $ 275,000.00

Title: *Mechanisms underlying neurovascular dysregulation in African American women*
Role: PI
NIH R21
Duration: 01/02/2024 – 12/23/2026
Budget: $ 275,000.00

JOURNAL EDITORIAL BOARD

Frontiers Editor Board

AD-HOC REVIEWER FOR MANUSCRIPTS

AJP-Regulatory, Integrative and Comparative Physiology
AJP-Heart and Circulatory Physiology
AJP-Renal Physiology
Journal of Applied Physiology
Medicine & Science in Sports & Exercise
Experimental Physiology
Physiological Reports
Autonomic Neuroscience: Basic and Clinical
Journal of Diabetes Research

AD-HOC REVIEWER FOR GRANTS

2023-26 Research Review Committee, American College of Sports Medicine (ACSM)
2023 Reviewer for grants at Graduate Women in Science
2022 Vice President for Research (VPR) Research and Creative Grants, UT Austin
2022 Review committee for Student Research Development Awards, Texas American College of Sports Medicine (TACSM)
2021 Natural Sciences and Engineering Research Council of Canada (NSERC)

PROFESSIONAL SOCIETY MEMBERSHIPS

2020 Graduate Women in Science
2017- American Heart Association (AHA)
2016- Texas American College of Sports Medicine (TACSM)
2014-17 Michigan Physiological Society (MPS)
2013- Phi Beta Kappa Society
2012- American Physiological Society (APS)

PEER REVIEWED PUBLICATIONS

33. Bunsawat K, Skow RJ, Kaur J, Wray DW. Neural Control of the Circulation during Exercise in Heart Failure with Reduced and Preserved Ejection Fraction. *Under review at Am J Physiol Heart Circ Physiol.*

32. Mannozzi J, Al-Hassan M, **Kaur J**, Lessanework B, Alvarez A, Massoud L, Aoun K, Spranger M, O'Leary DS. Blood flow restriction training activates the muscle metaboreflex during low-intensity sustained exercise. *J Appl Physiol.* 135(2), Jun 2023. DOI: 10.1152/japplphysiol.00274.2023.

31. Mannozzi J, Al-Hassan M, **Kaur J**, Lessanework B, Alvarez A, Massoud L, Bhatti T and. O'Leary DS. Ventricular-vascular uncoupling in heart failure: effects of arterial baroreflex-induced sympatho-excitation at rest and exercise. *Front Physiol.* 13, April 2022. DOI: 10.3389/fphys.2022.835951.

30. Wenner MM, Greaney JL, Matthews EL, McGinty S, **Kaur J**, Vongpatanasin W, and Fadel PJ. Influence of age and estradiol on sympathetic nerve activity responses to exercise in women. *Med Sci Sports Exerc.* 54(3): 408-416, March 2022. DOI: 10.1249/MSS.0000000000002823.

29. AK Grotle, **Kaur J**, Stone AJ, Fadel PJ. Neurovascular dysregulation during exercise in type 2 diabetes. *Front Physiol.* (12) 387, April 2021. DOI: 10.3389/fphys.2021.628840

28. **Kaur J**, Barbosa TC, Nandadeva D, Young BE, Stephens BY, Brothers RM, Fadel PJ. Attenuated rapid onset vasodilation to single forearm contraction in black men. *Med Sci Sports Exerc.* 53(3): 590-596, March 2021. DOI: 10.1249/MSS.0000000000002511.

27. Mannozzi J, Massoud L, **Kaur J**, Coutsos M, O'Leary DS. Ventricular contraction and relaxation rates during muscle metaboreflex activation in heart failure: are they coupled? *Exp Physiol.* 106(2): 401-411, Feb 2021. DOI: 10.1113/EP089053.

26. Barbosa TC, Young BE, Stephens BY, Nandadeva D, **Kaur J**, Keller DM, Fadel PJ. Functional sympatholysis is preserved in healthy young black men during rhythmic handgrip exercise. *Am J Physiol Regul Integr Comp Physiol.* 319(3): R323-328, Aug 2020. DOI: 10.1152/ajpregu.00105.2020

25. Young BE, **Kaur J**, Vranish JR, Stephens BY, Barbosa TC, Cloud J, Wang J, Keller DM, Fadel PJ. Augmented resting beat-to-beat blood pressure variability in young healthy non-Hispanic black men. *Exp Physiol.* 105(7):1102-1110, 2020. DOI: 10.1113/EP088535

24. Mannozzi J, **Kaur J**, Spranger MD, Al-Hassan MH, Lessanework B, Alvarez A, Chung CS, O'Leary DS. Muscle metaboreflex-induced increases in effective arterial elastance: effect of heart failure. *Am J Physiol Regul Integr Comp Physiol.* 319(1): R1-R10, 2020. DOI: 10.1152/ajpregu.00040.2020

23. Vranish JR, Holwerda SW, **Kaur J**, Fadel PJ. Augmented pressor and sympatho-excitatory responses to the onset of isometric handgrip in type 2 diabetes patients. *Am J Physiol Regul Integr Comp Physiol.* 318(2): R311-R319, 2020. DOI: 10.1152/ajpregu.00109.2019

22. Katayama K, Barbosa TC, **Kaur J**, Young BE, Nandadeva D, Ogoh S, Fadel PJ. Muscle pump-induced inhibition of sympathetic vasomotor outflow during low-intensity leg cycling is attenuated by muscle metaboreflex activation. *J Appl Physiol.* 128(1): 1-7, Jan 2020. DOI: 10.1152/japplphysiol.00639.2019

21. Stephens BY, **Kaur J**, Vranish JR, Barbosa TC, Johnson AL, Blankenship JK, Smith SA, Fadel PJ. The effect of acute high phosphate intake on muscle metaboreflex activation and vascular function. *Am J Physiol Heart Circ Physiol.* 317(2): H308-H314, 2019. DOI: 10.1152/ajpheart.00082.2019

20. **Kaur J**, Barbosa TC, Fadel PJ. Metaboreceptor polymorphisms: do genes determine your blood pressure response to exercise? *J Physiol.* 596(21): 5069-5070, 2018. DOI: 10.1113/jp276971

19. **Kaur J**, Vranish JR, Barbosa TC, Washio T, Young BE, Stephens BY, Brothers RM, Ogoh S, Fadel PJ. Regulation of regional cerebral blood flow during graded reflex-mediated sympathetic activation via lower body negative pressure. *J Appl Physiol*. 125: 1779-1786, 2018. DOI: 10.1152/japplphysiol.00623.2018

18. Barbosa TC, **Kaur J**, Stephens BY, Akins JD, Keller DM, Brothers RM, Fadel PJ. Attenuated forearm vascular conductance responses to rhythmic handgrip in young African-American compared with Caucasian-American men. *Am J Physiol Heart Circ Physiol*. 315(5): H1316-H1321, 2018. DOI: 10.1152/ajpheart.00387.2018

17. **Kaur J**, Krishnan AC, Senador D, Alvarez A, Hanna HW, O'Leary DS. Altered arterial baroreflex-muscle metaboreflex interaction in heart failure. *Am J Physiol Heart Circ Physiol.* 315(5): H1383-H1392, 2018. DOI: 10.1152/ajpheart.00338.2018

16. Washio T, Vranish JR, **Kaur J**, Young BE, Katayama K, Fadel PJ, Ogoh S. Acute reduction in posterior cerebral blood flow following isometric handgrip exercise is augmented by lower body negative pressure. *Physiol Rep.* 6(18): 1-10, 2018. DOI: 10.14814/phy2.13886

15. Vranish JR, Young BE, Stephens BY, **Kaur J**, Padilla J, Fadel PJ. Brief periods of inactivity reduce leg microvascular, but not macrovascular, function in healthy young men. *Exp Physiol.* 103(10): 1425-1434, 2018. DOI: 10.1113/ep086918

14. Katayama K, **Kaur J**, Young BE, Barbosa TC, Ogoh S, Fadel PJ. High intensity muscle metaboreflex activation attenuates cardiopulmonary baroreflex-mediated inhibition of muscle sympathetic nerve activity. *J Appl Physiol.* 125(3): 812-819, 2018. DOI: 10.1152/japplphysiol.00161.2018

13. Barbosa TC, **Kaur J**, Holwerda SW, Young CN, Curry TB, Thyfault JP, Joyner MJ, Limberg JK, Fadel PJ. Insulin increases ventilation during euglycemia in humans. *Am J Physiol Regul Integr Comp Physiol*. 315(1): R84-R89, 2018. DOI: 10.1152/ajpregu.00039.2018

12. **Kaur J**, Senador D, Krishnan AC, Hanna HW, Alvarez A, Machado TM, O'Leary DS. Muscle metaboreflex-induced vasoconstriction of the ischemic active muscle is exaggerated in heart failure. *Am J Physiol Heart Circ Physiol* 314:H11-18, 2018. DOI:10.1152/ajpheart.00375.2017

11. **Kaur J**, Young BE, Fadel PJ. Sympathetic overactivity in chronic kidney disease: consequences and mechanisms. *Int J Mol Sci*. 18 (8): 2017. DOI: 10.3390/ijms18081682

10. Young BE, **Kaur J**, Vranish JR. 2016. Methodological assessment of sympathetic vascular transduction. *J Physiol.* 594(23): 6809-6810, 2017.

9. Vranish JR, Young BE, **Kaur J**, Patik JC, Padilla J, Fadel PJ. Influence of Sex on microvascular and macrovascular responses to prolonged sitting. *Am J Physiol Heart Circ Physiol.* 312(4): H800-805, 2017. DOI: 10.1152/ajpheart.00823.2016

8. Spranger MD, **Kaur J**, Sala-Mercado JA, Krishnan AC, Abu-Hamdah R, Alvarez A, Machado TM, Augustyniak RA, O'Leary DS. Exaggerated coronary vasoconstriction limits muscle metaboreflex-induced increases in ventricular performance in hypertension. *Am J Physiol Heart Circ Physiol.* 312(1):H68-H79, 2017. DOI: 10.1152/ajpheart.00417.2016

7. Senador D, **Kaur J**, Alvarez A, Hanna HW, Krishnan AC, Altamimi YH, O'Leary DS. Role of endothelial nitric oxide in control of peripheral vascular conductance during muscle metaboreflex activation. *Am J Physiol Regul Integr Comp Physiol.* 313(1): R29-R34, 2017. DOI: 10.1152/ajpregu.00515.2016

6. **Kaur J**, Alvarez A, Hanna HW, Krishnan AC, Senador D, Machado TM, Altamimi YH, Lovelace AT, Dombrowski MD, Spranger MD, O'Leary DS. Interaction between the muscle metaboreflex and the arterial baroreflex in control of arterial pressure and skeletal muscle blood flow. *Am J Physiol Heart Circ Physiol.* 311(5): H1268-76, 2016. DOI: 10.1152/ajpheart.00501.2016

5. Spranger MD, **Kaur J**, Sala-Mercado JA, Machado TM, Krishnan AC, Alvarez A, O'Leary DS. Attenuated muscle metaboreflex-induced pressor response during post-exercise muscle ischemia in renovascular hypertension. *Am J Physiol Reg Integ Comp Physiol.* 308 (7): R650-R658, 2015. DOI: 10.1152/ajpregu.00464.2014

4. **Kaur J**, Machado TM, Alvarez A, Krishnan AC, Hanna HW, Altamimi YH, Senador D, Spranger MD, O'Leary DS. Muscle metaboreflex activation during dynamic exercise vasoconstricts the ischemic active skeletal muscle. *Am J Physiol Heart Circ Physiol.* 309(12): H2145-51, 2015. DOI: 10.1152/ajpheart.00679.2015

3. **Kaur J**, Spranger MD, Hammond RL, Krishnan AC, Alvarez A, Augustyniak RA, O'Leary DS. Muscle metaboreflex activation during dynamic exercise evokes epinephrine release resulting in β_2-mediated vasodilation. *Am J Physiol Heart Circ Physiol.* 308 (5): H524-H529, 2015. DOI: 10.1152/ajpheart.00648.2014

2. Sala-Mercado JA, Spranger MD, Abu-Hamdah R, **Kaur J**, Coutsos M, Stayer D, Augustyniak RA and O'Leary DS. Attenuated muscle metaboreflex-induced increases in cardiac function in hypertension. *Am J Physiol Heart Circ Physiol.* 305: H1548–H1554, 2013. DOI: 10.1152/ajpheart.00478.2013

1. Spranger MD, Sala-Mercado JA, Coutsos M, **Kaur J**, Stayer D, Augustyniak RA, O'Leary DS. Role of cardiac output versus peripheral vasoconstriction in mediating muscle metaboreflex pressor responses: dynamic exercise versus post-exercise muscle ischemia. *Am J Physiol Reg Integ Comp Physiol. 304(8): R657-63,* 2013. DOI: 10.1152/ajpregu.00601.2012

BOOK CHAPTERS

1. Stone A and **Kaur J.** Cardiovascular responses to exercise in diabetes. In Gina L. C. Yosten and J. Thomas Cunningham (Eds.) *Cardiovascular Neuroendocrinology*, Springer Nature.

PUBLICATIONS IN PREPARATION

1. **Kaur J**, Vranish JR, Young BE, Barbosa TC, Stephens BY, Nandadeva DP, Fadel PJ. Influence of family history of hypertension on muscle metaboreflex activation in young healthy non-Hispanic White and Black men.
2. Mannozzi J, Al-Hassan MH, **Kaur J**, Lessanework B, Alvarez A, Massoud L, Aoun K, Spranger MD, O'Leary DS. Is the muscle metaboreflex active during blood flow restriction training aerobic exercise?
3. Skow RJ, **Kaur J**, Bunsawat K, Wray DW. Neural control of the circulation during exercise in heart failure with reduced and preserved ejection fraction.
4. Liu R, Nyarko R, Perez J, Dalve A, Van Wagoner T, Appiah C, **Kaur J**. Forearm vascular conductance responses to rhythmic handgrip in young Hispanic and Caucasian American adults.

ABSTRACTS (* indicates Trainees)

45. * Perez J, Liu R, Nyarko RA, Dalve AD, Van Wagoner T, Appiah C, **Kaur J**. Blood Flow and Vascular Conductance Responses to Dynamic Handgrip Exercise in Hispanic American and Non-Hispanic White Women. *Submitted for TACSM,* 2023.
44. * Liu R, Nyarko RA, Perez J, Dalve AD, Van Wagoner T, Appiah C, **Kaur J**. Forearm Vascular Responses to Rhythmic Handgrip Exercise in Young Healthy Hispanic Men. *Submitted for TACSM,* 2023.
43. * Dalve AD, Perez J, Liu R, Nyarko RA*,* Appiah C, Van Wagoner T, **Kaur J**. Exercise pressor response in healthy Hispanic Adults. *Submitted for APS,* 2023.
42. * Perez J, Liu R, Van Wagoner T, Nyarko RA, Dalve AD, Appiah C, **Kaur J**. Rapid onset vasodilation in response to forearm muscle contraction in Hispanic American and Caucasian American Adults. *Submitted for APS,* 2023.

41. * Liu R, Nyarko R, Perez J, Dalve A, Van Wagoner T, Appiah C, **Kaur J**. Forearm vascular conductance responses to rhythmic handgrip in young Hispanic American adults compared to Caucasian American adults. *Submitted for APS,* 2023.

40. * Nyarko RA, Liu R, Dalve AD, Perez J, Appiah C, Van Wagoner T, **Kaur J**. Forearm vascular conductance responses to rhythmic handgrip in young African American compared with Caucasian American women. *Submitted for APS,* 2023.

39. Mannozzi J, Al-Hassan MH, Kaur J, Lessanework B, Alvarez A, Massoud L, Aoun K, Spranger MD, O'Leary DS. Is the muscle metaboreflex active during blood flow restriction training aerobic exercise? *Submitted for ACSM,* 2023.

38. Grotle AK, **Kaur J**, Skow RJ, Young BE, Nandadeva D, Stephens BY, Mohan PC, Fadel PJ. Elevated symmetric dimethylarginine but not asymmetric dimethylarginine corresponds to reduced endothelial function and augmented arterial stiffness in patients with stage 2 and 3 chronic kidney disease. *Submitted for APS,* 2023.

37. Skow RJ, Grotle AK, **Kaur J**, Young BE, Nandadeva D, Stephens BY, Mohan PC, Fadel PJ. Cerebrovascular function is not altered in patients with stage 3 and 4 chronic kidney disease. *Submitted for APS,* 2023.

36. Mannozzi J, **Kaur J**, Alhassan M, O'Leary DS. Baroreceptor unloading at rest and during exercise in heart failure exacerbates ventricular-vascular coupling. *FASEB J,* 2021.

35. **Kaur J**, Vranish JR, Young BE, Barbosa TC, Stephens BY, Nandadeva DP, Fadel PJ. Influence of family history of hypertension on muscle metaboreflex activation in young healthy non-Hispanic White and Black Men. *FASEB,* 2021.

34. Nandadeva DP, **Kaur J**, Barbosa TC, Stephens BY, Young BE, Grotle AK, Fadel PJ. Effect of family history of hypertension on racial differences in flow-mediated dilation and reactive hyperemia. *FASEB J,* 2021.

33. **Kaur J**, Sabnani MK, Stephens BY, Nandadeva DP, Weidanz JA, Fadel PJ. Peripheral blood mononuclear cell-derived superoxide production, spontaneous baroreflex sensitivity, and vascular function in chronic kidney disease patients. *FASEB J* 34(S1):1-1, 2020.

32. Stephens BY, Nandadeva DP, **Kaur J**, Barbosa TC, Fadel PJ. Acute high phosphate intake impairs endothelial-dependent vasodilation in young premenopausal women. *FASEB J* 34(S1):1-1, 2020.

31. **Kaur J**, Barbosa TC, Young BE, Stephens BY, Nandadeva DP, Brothers RM, Fadel PJ. Attenuated skeletal muscle contraction-induced rapid onset vasodilation in African Americans. *FASEB J* 33: 541.19, 2019.

30. Nandadeva DP, **Kaur J**, Stephens BY, Fadel PJ. Comparison of indices used to assess microvascular function during post-occlusion reactive hyperemia in humans. *FASEB J* 33: 541.13, 2019.

29. Stephens BY, **Kaur J**, Barbosa TC, Vranish JR, Smith SA, Vongpatanasin W, Fadel PJ. Effect of acute elevations in serum phosphate on cardiac baroreflex sensitivity in young healthy adults. *FASEB J* 33: 741.1, 2019.

28. Barbosa TC, Young BE, Stephens BY, **Kaur J**, Keller DM, Fadel PJ. Functional sympatholysis in young African American men during rhythmic handgrip exercise. *FASEB J* 33: 541.12, 2019.

27. Katayama K, Barbosa TC, **Kaur J**, Young BE, Shigehiko O, Fadel PJ. Muscle pump-induced inhibition of sympathetic vasomotor outflow during leg cycling is blunted by high-intensity muscle metaboreflex activation. *FASEB J* 33: 860.5, 2019.

26. **Kaur J**, Barbosa TC, Young BE, Stephens BY, Vranish JR, Brothers RM, Fadel PJ. Effect of graded sympathetic activation on regional cerebral vascular conductance. *FASEB J* 32: 920.1, 2018.

25. Katayama K, **Kaur J**, Young BE, Barbosa TC, Ogoh S, Fadel PJ. High intensity muscle metaboreflex activation attenuates cardiopulmonary baroreflex-mediated inhibition of muscle sympathetic nerve activity. *FASEB J* 32: 884.3, 2018.

24. Barbosa TC, **Kaur J**, Stephens BY, Akins JD, Brothers RM, Fadel PJ. Racial differences in forearm vascular conductance response during dynamic handgrip exercise. *FASEB J* 32: 722.25*,* 2018.

23. Stephens BY, **Kaur J**, Vranish JR, Barbosa TC, Johnson AL, Blankenship JK, Vongpatanasin W, Smith SA, Fadel PJ. The effect of acute high phosphate intake on muscle metaboreflex activation in young, healthy men. *FASEB J* 32: 725.3*,* 2018.

22. Johnson AL, Vranish JR, **Kaur J**, Lui X, Blankenship JK, Fadel PJ. Elevated PBMC-derived oxidative stress in healthy young African American women. *FASEB J* 32: 730.7*,* 2018.

21. Senador D, Gross M, McNitt M, **Kaur J**, Coutsos M, Krishnan AC, Mannozzi JT, Aung K, Alvarez A, Hanna HW, Lovelace AT, Levanovich P, Dombrowski M, Lessanework B, O'Leary DS. Muscle metaboreflex control of left ventricular failing pressure. *FASEB J* 32: 594.2, 2018.

20. **Kaur J**, Vranish JR, Patik JC, Young BE, Keller DM, and Fadel PJ. Muscle metaboreflex activation in young healthy men with a family history of hypertension. *FASEB J* 31: 847.5, 2017.

19. **Kaur J**, Vranish JR and Fadel PJ. L-arginine infusion reduces muscle sympathetic nerve activity and blood pressure in patients with chronic kidney disease. *FASEB J* 31: 863.6, 2017.

18. **Kaur J**, Washio T, Vranish JR, Young BE, Ogoh S, and Fadel PJ. Regional cerebral blood flow responses to graded sympathetic activation in young healthy subjects. *American College of Sports Medicine,* 2017.

17. Vranish JR, Young BE, Stephens BY, **Kaur J**, Padilla J, and Fadel PJ. Influence of an acute bout of sitting on leg vascular function. *American College of Sports Medicine*, 2017.

16. Stephens BY, **Kaur J**, Vranish JR, Patik JC, Brothers RM, Fadel PJ. Effect of acute antioxidant consumption on cardiac baroreflex sensitivity in young healthy adults. *American College of Sports Medicine*, 2017.

15. Washio T, Vranish JR, **Kaur J**, Young BE, Fadel PJ, and Ogoh S. Reductions in posterior cerebral blood flow are susceptible to orthostatic stress during post-exercise acute hypotension. *American College of Sports Medicine*, 2017.

14. Vranish JR, Young BE, **Kaur J**, Patik JC, Padilla J, and Fadel PJ. Prolonged sitting results in microvascular, but not macrovascular, dysfunction in healthy young women. *FASEB J* 31: 684.21, 2017.

13. Patik JC, Vranish JR, Curtis BM, **Kaur J**, Young BE, Fadel PJ and Brothers RM. The effect of an antioxidant cocktail on vascular function in healthy Caucasian and African American Men. *FASEB J* 31: 840.19, 2017.

12. Curtis BM, Patik JC, Vranish JR, **Kaur J**, Young BE, Fadel PJ and Brothers RM. The effect of an antioxidant cocktail on indices of cerebral and peripheral vascular function in healthy college-age men. *FASEB J* 31: 840.18, 2017.

11. Senador D, **Kaur J**, Sala-Mercado JA, Krishnan AC, Alvarez A, Hanna HW, Lovelace AT, Rasaiah MM, Altamimi YH, O'Leary DS. Pharmacological cardiac sympathetic afferent denervation in pacing-induced heart failure. *FASEB J* 31: 844.2, 2017.

10. **Kaur J**, Senador D, Krishnan AC, Alvarez A, Hanna HW and O'Leary DS. Altered arterial baroreflex - muscle metaboreflex interaction in heart failure. *FASEB J* 31: 844.5, 2017.

9. **Kaur J**, Senador D, Krishnan AC, Hanna HW, Alvarez A, Machado TM, O'Leary DS. Muscle metaboreflex-induced vasoconstriction of the ischemic active muscle is exaggerated in heart failure. *FASEB J* 30: 1286.6, 2016.

8. Senador D, **Kaur J**, Alvarez A, Hanna HW, Krishnan AC, Altamimi YH, O'Leary DS. Role of endothelial nitric oxide in control of peripheral vascular conductance during muscle metaboreflex activation. *FASEB J* 30: 995.3, 2016.
7. **Kaur J**, Spranger MD, Machado TM, Krishnan AC, Alvarez A and O'Leary DS. Baroreflex sympatho-activation during muscle metaboreflex activation improves blood flow to the ischemic muscle. *FASEB J* 29: 648.8, 2015.
6. **Kaur J**, Spranger MD, Machado TM, Krishnan AC, Alvarez A, Hanna HW, Altamimi YH and O'Leary DS. Muscle metaboreflex-induced vasoconstriction of ischemic active skeletal muscle. *FASEB J* 29: 1054.1, 2015.
5. **Kaur J**, Spranger MD, Hammond RL, Krishnan AC, Alvarez A, Augustyniak RA and O'Leary DS. Muscle metaboreflex activation during dynamic exercise evokes epinephrine release resulting in β2-mediated vasodilation. *FASEB J* 28:1172.2, 2014.
4. Spranger MD, **Kaur J**, Sala-Mercado JA, Krishnan AC, Alvarez A, O'Leary DS. Mechanisms mediating the muscle metaboreflex pressor response during post-exercise muscle ischemia are altered in hypertension. *FASEB J* 28:1170.2, 2014.
3. Augustyniak RA, Spranger MD, Abu-Hamdah R, **Kaur J**, Hammond RL, Sala-Mercado JA, Ichinose M and O'Leary DS. Hypertension impairs spontaneous baroreflex heart rate control during exercise and muscle metaboreflex activation. *FASEB J* 28:1132.9, 2014.
2. Spranger MD, Sala-Mercado JA, **Kaur J**, Abu-Hamdah R, Augustyniak RA and O'Leary DS. Muscle metaboreflex-induced increases in ventricular performance are limited in hypertension due to exaggerated coronary vasoconstriction. *FASEB J* 27:1118.16, 2013.
1. Spranger MD, Sala-Mercado JA, Coutsos M, **Kaur J**, Stayer D, Augustyniak RA and O'Leary DS. Role of cardiac output versus peripheral vasoconstriction in mediating muscle metaboreflex pressor responses: dynamic exercise versus post-exercise muscle ischemia. *FASEB J* 26:1091.45, 2012.

INVITED PRESENTATIONS

5. American College of Sports Medicine (ACSM) 2022 Annual Conference and World Congresses. Session: Racial/Ethnic Differences in Blood Pressure and Vascular Responses to Exercise: What we know and where we are Heading. Title of the talk: Racial disparities in vascular function during exercise.
4. Cardiovascular Reflexes and Regional Blood Flow Webinar by Transonic (2021): Muscle Metaboreflex and Arterial Baroreflex: Action, Interaction and Altered control of heart failure
3. Michigan Physiology Society (MPS) 2015: Muscle metaboreflex-induced vasoconstriction of the ischemic active skeletal muscle.
2. Experimental Biology (EB) 2014: Muscle metaboreflex activation during dynamic exercise evokes epinephrine release resulting in β2-mediated vasodilation. Featured title: Sympathetic Vascular Transduction: Bridging the Divide in Blood Pressure Regulation. Sponsored by NCAR- APS.
1. Michigan Physiology Society (MPS) 2014: Muscle metaboreflex activation during dynamic exercise evokes epinephrine release resulting in β_2-mediated vasodilation.